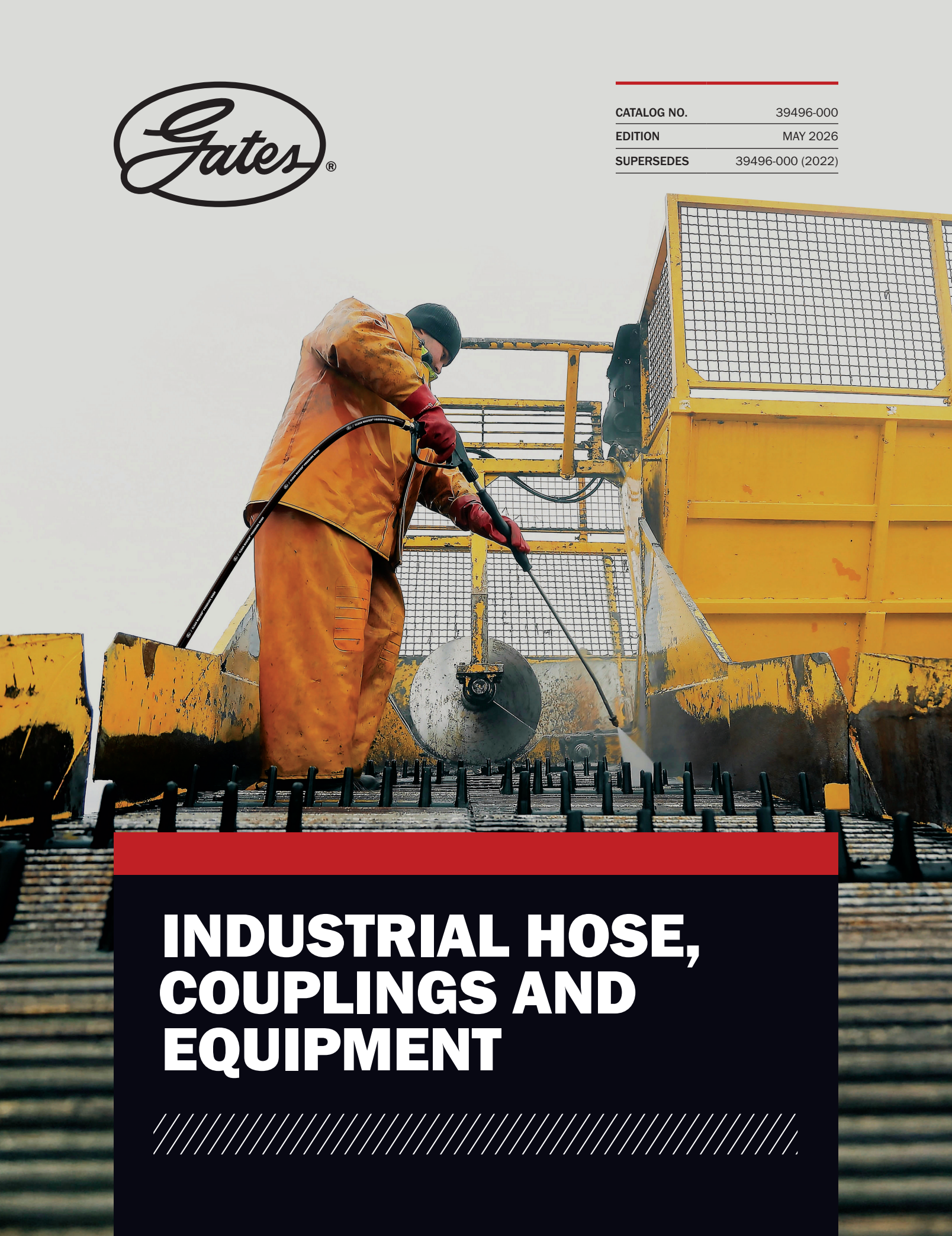




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A full-page background image showing a worker in a bright orange protective suit and red gloves using a high-pressure water spray gun to clean a large, yellow industrial machine. The machine has a circular component and a grid-like structure. The worker is positioned on the left, leaning over the machine. The background is a clear, light blue sky.

INDUSTRIAL HOSE, COUPLINGS AND EQUIPMENT

LIMITED WARRANTY

Goods are warranted to be free from defects in material or workmanship for the life of the Goods (or the published recommended replacement interval specified by Gates). Gates will replace or repair, at its option, any Goods proved defective in material or workmanship during the warranty period. This is the sole remedy for breach of warranty. Color fade and color difference is not warranted. This warranty is void if the defect is caused by improper installation, use or maintenance of the Goods, or used for racing or competition. Goods are not warranted to comply with laws that may apply to uses of the Goods not stated in related materials, e.g., use in manned or unmanned aviation or life support applications. **ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY DISCLAIMED. FAILURE TO REPLACE TIMING BELTS OR OTHER GATES PRODUCTS AS SPECIFIED MAY RESULT IN CATASTROPHIC ENGINE OR EQUIPMENT DAMAGE, FOR WHICH GATES DISCLAIMS ALL RESPONSIBILITY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.**

Some states do not allow the exclusion or limitation of incidental or consequential damages, and some states do not allow limitations on how long an implied warranty lasts, so the above limitation and exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. For the latest Limited Warranty information go to www.gates.com/warranty.

WARNING

Gates Corporation recommends industrial hoses for normal service as described in this catalog. Other applications should be referred to your respective marketing representative.

In any application, there may be inherent risk of bodily injury or property damage and the user is responsible for implementation of adequate safety precautions. It is the responsibility of the person supplying the hose to advise the user of proper instructions for the adequate safe use and or precautions and to warn the user of consequences of failure to heed such instruction. Should a hose assembly fail during use because of excessive pressure, injurious and/or damaging chemicals, elevated temperature materials, explosives or flammable materials, then serious bodily injury or destruction of property could result from impelled couplings, whipping hose, high pressure or high velocity discharge, chemical contact, high temperature materials, explosion or fire.

In known high risk areas, it is recommended that hose inspections be performed at frequent intervals related to the risk factor. Hose with obvious damage should be scrapped and replaced. These inspections should include tube and cover conditions, leaking or slipped couplings and proof test.

Detailed information concerning storage, care and maintenance may be found in the Hose Handbook published by Association for Rubber Products Manufacturers 1901 Pennsylvania Avenue, N.W., Washington, D.C. 20006 and in SAE Recommended Practices J1273.

IMPORTANT

Gates recommends only those applications of products specified in Gates product literature. Gates disclaims any liability for use of its products in applications other than those for which they were designed.

Do not use Gates hose or couplings on aircraft propeller or rotor drive systems or in-flight accessory drives. Gates products are not designed or intended for aircraft use.

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PACKAGING CODE REFERENCE

CODE	DESCRIPTION	+/- FEET	MIN LENGTH (FT)	MAX PIECES	INCREMENT (FT)
A	Qty ± 20%, Min Length: 10 ft, Max Pieces: 3, 50% in Lengths 40 ft & longer, 2 lengths under 20 ft allowed	20%	10	3	*
B	Qty ± 10 ft, Min Length: 5 ft, Max Pieces: 2	10	5	2	*
C	Qty ± 10%, Min Length: 10 ft, 50% in lengths 40 ft & longer, 50% in lengths: 10 ft to 39 ft	10%	10	*	*
D	Qty ± 10%, Min Length: 10 ft, Max Pieces: 6, 65% in lengths longer than 45 ft, 2 Pieces under 20 ft allowed	10%	10	6	*
E	Qty ± 0 ft, Min Length: 10 ft, Max Pieces: 4	0	10	4	*
F	Qty ± 0 ft, Min Length: 10 ft, Max Pieces: 3	0	10	3	*
G	Packaged in 270ft to 330ft reels. Maximum of 3 pieces. Minimum length 25ft	*	*	*	*
I	Qty ± 20 ft, Min Length: 20 ft, Max Pieces: 3, one Length 40 ft or longer	20	20	3	*
J	a. Hose ¾" I.D. & Below: Footage Tolerance: 450 ft-650 ft, Max Pieces: 4 per reel, 1 piece allowed under 100 ft, Min Length: 15 ft	200	15	4	*
J	b. Hose 1" I.D. & Above: Footage Tolerance: 200 ft - 350 ft, Max Pieces: 3 per reel, 1 piece allowed under 100 ft, Min Length: 15 ft (unless otherwise specified in additional special instructions)	150	15	3	*
K	Qty ± 20%, Min Length: 5 ft, Max Pieces: 4, 65% in lengths longer than 45 ft, 25% in lengths 25 ft to 45 ft, 10% in lengths 5 ft to 25 ft	20%	5	4	*
L	Qty ± 10%, Min Length: 25 ft, Max Pieces: 3	10%	25	3	*
M	Qty ± 20%, Min Length: 50 ft, Max Pieces: 2	20%	50	2	*
N	Qty ± 0%, Min Length: 10 ft, Max Pieces: 2	0%	10	2	*
O	Each Length must be 1 Continuous Piece. Acceptable Footage Tolerance: 121 ft - 203 ft	*	*	1	*
Q	Qty ± 10%, Max Pieces: 1 continuous length	10%	*	1	*
R	Hose lengths shall be as long as possible, Min Length: 25 ft Hose will be stacked on pallets in bales, stretch wrapped and banded	*	25	*	*
S	Qty ± 0 ft, Min Length: 50 ft, Increments: 50 ft	0	50	*	50
T	One Continuous Length Piece	*	*	1	*
U	Qty ± 10%, Min Length: 15 ft, Max Pieces: 3	10%	15	3	*
V	Qty ± 0 ft, Min Length: 10 ft, Max Pieces: 6, 65% in lengths longer than 45 ft, 2 lengths under 20 ft allowed	0	10	6	*
Y	Qty ± 0 ft, Min Length: 10 ft, Max Pieces: 10, Max Pieces under 25 ft: 6	0	10	10	*
Z	Qty ± 0 ft, Min Length: 12 ft, Max Pieces: 5	0	12	5	*
AA	Qty ± 200 ft, Max Pieces: 4, 1 length 25 ft to 50 ft. Max Pieces under 100 ft: 2	200	*	4	*
BB	Qty ± 125 ft, Min Length: 50 ft, Max Pieces: 3	125	50	3	*
CC	Qty ± 100 ft, Min Length: 15 ft, Max Pieces: 5	100	15	5	*
DD	Qty ± 100 ft, Max Pieces: 5, 1 piece 25 ft to 49 ft. All other pieces over 49 ft	100	*	5	*
EE	Qty ± 100 ft, Min Length: 50 ft, Max Pieces: 4, 1 length 25 ft to 50 ft, Max Pieces under 100 ft: 2	100	50	4	*
FF	Qty ± 100 ft, Min Length: 25 ft, Max Pieces: 4	100	25	4	*
GG	Qty ± 100 ft, Min Length: 15 ft, Max Pieces: 4, 1 piece allowed under 100 ft	100	15	4	*
HH	Qty ± 100 ft, Max Pieces: 2, Increments: 50 ft	100	*	2	50
II	Qty ± 50 ft, Min Length: 50 ft, Max Pieces: 3, Increments: 25 ft	50	50	3	25

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CODE	DESCRIPTION	+/- FEET	MIN LENGTH (FT)	MAX PIECES	INCREMENT (FT)
JJ	Qty ± 50 ft, Min Length: 50 ft, Max Pieces: 3	50	50	3	*
KK	Qty ± 50 ft, Min Length: 50 ft, Max Pieces: 3, One length 25 ft to 50 ft, Max Pieces under 100 ft: 2	50	50	3	*
LL	Qty ± 50 ft, Min Length: 25 ft, Max Pieces: 3, 1 length under 100 ft	50	25	3	*
MM	Qty ± 50 ft, Max Pieces: 2, Increments: 50 ft	50	*	2	50
NN	Qty ± 40 ft	40	*	*	*
OO	Qty ± 30 ft, Min Length: 25 ft, Max Pieces: 3	30	25	3	*
PP	Qty ± 20 ft, Min Length: 25 ft, Max Pieces: 3	20	25	3	*
QQ	Qty ± 10 ft, Min Length: 10 ft, Max Pieces: 2	10	10	2	*
RR	Qty ± 0 ft, Min Length: 25 ft, Max Pieces: 15, Max Pieces at 25 ft: 3	0	25	15	*
SS	Qty ± 0 ft, Min Length: 25 ft, Max Pieces: 10, Increments: 25 ft	0	25	10	25
TT	Qty ± 0 ft, Min Length: 30 ft, Max Pieces: 4	0	30	4	*
UU	Qty ± 0 ft, Max Pieces: 3, Increments: 50 ft	0	*	3	50
VV	Qty ± 0 ft, Min Length: 50 ft, Max Pieces: 3	0	50	3	*
WW	Qty ± 0 ft, Min Length: 15 ft, Max Pieces: 3	0	15	3	*
XX	Qty ± 0 ft, Max Pieces: 2, Increments: 50 ft	0	*	2	50
YY	Qty ± 0 ft, Min Length: 25 ft, Max Pieces: 2	0	25	2	*
					* = N/A

Gates reserves the right to change packaging specs at any time without notice.

STANDARD PACK DETAILS	
REEL	Reel
ASSY	Assembly
CTN	Carton
PLT	Pallet
BALE	Bale
CRT	Crate
UPS	UPS Ground Shippable
STRT	Straight
BULK	Bulk





GATES E2E™ AUTHORIZED DISTRIBUTORS

ENGINEERED FOR SAFETY. CERTIFIED FOR PERFORMANCE.

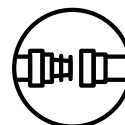
Industrial hose systems face tougher demands than ever with higher pressures, new materials, and stricter safety standards. That's why Gates created the E2E™ (End-to-End) Engineered System, a complete solution of hoses, fittings, and assembly procedures designed to work together for leak-free reliability. All with the goal to deliver assemblies built for safety, reliability, and long service life, so your operation stays productive and secure.

WHY CHOOSE A GATES E2E DISTRIBUTOR



TRAINED & QUALIFIED

Distributors are trained at the Gates Customer Solutions Center and trained to NAHAD hose assembly standards.



APPLICATION-SPECIFIC DESIGN

Hoses and fittings are precisely engineered to perform together, reducing risk and downtime.



PROVEN PERFORMANCE

Every assembly is pressure-tested and can be hydrostatically or conductivity-tested to ARPM standards.



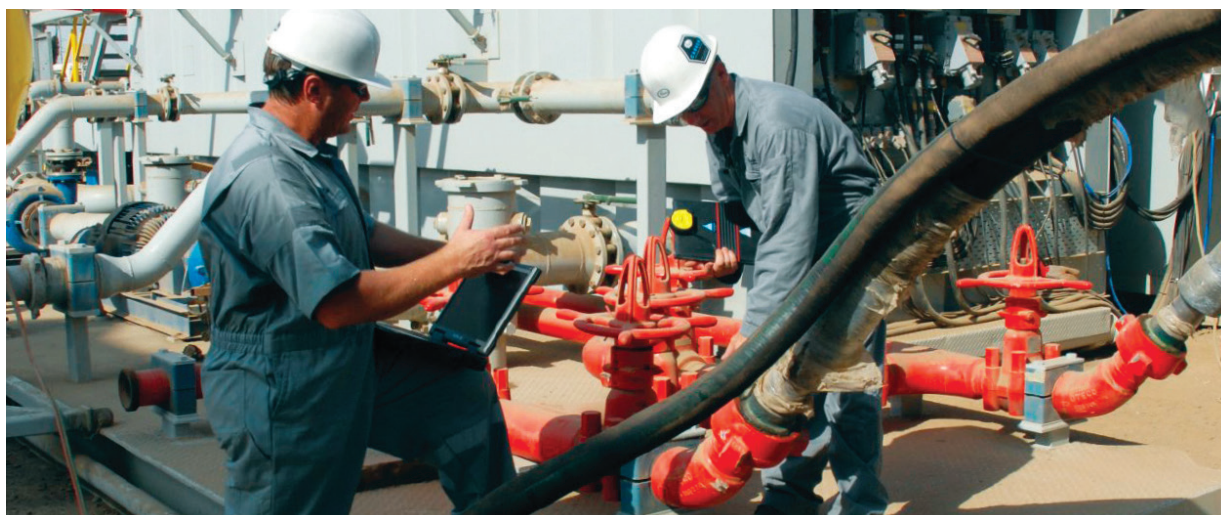
FULL DOCUMENTATION

Assemblies include test certificates and comply with Gates' current crimp specifications.

GATES E2E (END-TO-END) ENGINEERED SYSTEM AND DISTRIBUTOR PARTNERSHIP

To mitigate risk and improve the reliability of industrial hose products, Gates developed its E2E integrated system of hoses and fittings and a partnership with specially qualified fabricators. Gates E2E system includes highly engineered, application-specific industrial hoses, fittings designed to match, and precise assembly procedures with up-to-the-minute Gates crimp specifications.

Gates Authorized E2E Distributors are uniquely qualified to implement Gates E2E system. Their personnel have been trained at the Gates Customer Solutions Center. In addition, they adhere to hose assembly guidelines established by NAHAD (National Association for Hose and Accessories Distribution).



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TESTING AND CERTIFICATION

To ensure crimp integrity and reliability, all assemblies are tested to the rated proof pressure of the hose and accompanied by test certificates. Additional hydrostatic testing or electrical conductivity testing may be carried out as required. Testing is done in accordance with ARPM (Association for Rubber Products Manufacturers) recommended methods.

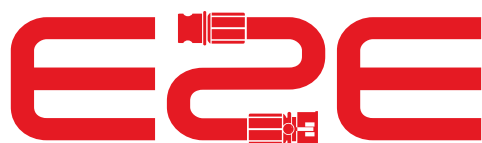
ARPM
ASSOCIATION FOR RUBBER
PRODUCTS MANUFACTURERS



WE'VE GOT YOU COVERED

You can rest easy when your hose assemblies are provided by a Gates Authorized E2E Distributor.

Distributors and their customers alike can maximize the value of their Gates industrial hose assemblies and create safer, more productive working environments by following the principles detailed in Gates comprehensive Crimp Data Manual and The Gates Safety Connections Guide – An Inspection and Preventive Maintenance Program for Industrial Hose.





GATES CUSTOMER SOLUTIONS CENTER

Fluid Power Workshops

The Gates Customer Solutions Center (CSC) in Englewood, Colorado is a state-of-the-art facility dedicated to leading the industry in customer-focused product development and training in fluid power technology. Staffed by over 80 of the top engineers, scientists and technicians in the industry, the facility is headquarters for understanding and meeting customers fluid power needs.

TRAINING WORKSHOPS FOR SALES ASSOCIATES AND YOUR CUSTOMERS

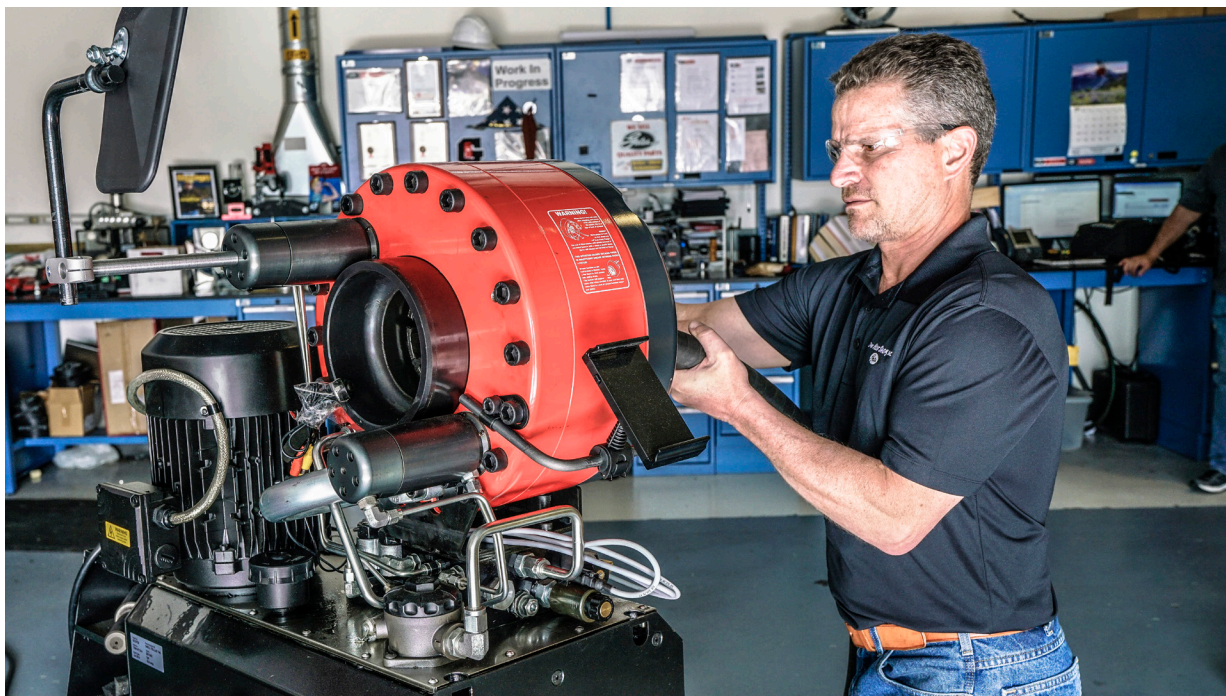
Gates Replacement market division is offering Fluid Power Training classes to help counter personnel, store managers, technicians and outside sales people increase their knowledge to help grow business. Classes are held at the Gates Customer Solutions Center (CSC). The sessions combine comprehensive classroom training with individual hands-on activities and group problem solving projects.



GATES INDUSTRIAL TRAINING PROGRAMS

Enhance Your Industry Expertise with Gates Training

Gates offers comprehensive training programs designed to improve technical knowledge and operational skills for distributors and OEMs. With over 110 years of materials science expertise, Gates provides industry-leading education through both online and in-person workshops.



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TRAINING OPTIONS

KEY BENEFITS

- Increase technical expertise and career growth.
- Learn best practices for installation, maintenance, and troubleshooting.

Gates U Online Platform:

- Interactive, on-demand modules covering Power Transmission and Fluid Power.
- Ideal for flexible, self-paced learning.
- Free registration.
- For online training go to <https://gatesu-industrial.com>



In-Person Gates U Workshops:

- Hands-on, intermediate-level training at Gates' Customer Solutions Center in Englewood, CO.
- On-site training is available for authorized distributors.
- For In-person training, go to <https://go.gates.com/NA-trainings-sign-up.html>



IN-PERSON WORKSHOPS

Fluid Power (Hydraulics & Industrial Hose)

- 4-day course covering safety practices, hose fabrication, application insight and engineering skills.
- Includes hands-on activities, facility tours, and troubleshooting.



Industrial Power Transmission

- 2-day workshop with practical training on belt drives, energy efficiency, installation, and alignment.
- Hands-on use of laser alignment and Sonic Tension Meter tools.



Contact: training@gates.com
 On-demand training: [GatesU.Com](https://gatesu.com)
 Register for workshops: [NA Workshops](https://go.gates.com/NA-trainings-sign-up.html)



CLASS INFORMATION

Topics to be covered:

- Review of safety issues associated with industrial hoses.
- Duplicate existing industrial hose assemblies using the S.T.A.M.P.E.D. procedure.
- Comprehensive product line review.
- Hands-on assembly fabrication and coupling training.
- Applications & opportunities review.
- Learn about how to apply application skills to sales.

Attendees will be given a tour of the Gates Customer Solution Center.

CUSTOM PROGRAMS

Let us design a program specifically for your company's needs. We can design courses to cover equipment, safety, sales, basic knowledge and much more – we are ready to help your employees become product experts.

Contact your local Gates representative for more information or contact training@gates.com



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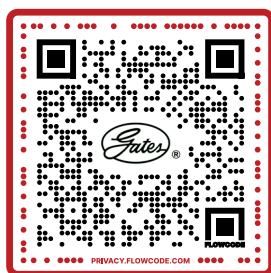
GET CONNECTED VISIT OUR WEBSITE

Product Application Engineers
Technical Questions on Products
303-744-5070
fppasupport@gates.com

Account Representatives
Fluid Power Customer Service
800-366-3128 - Industrial
800-678-4143 - Automotive

With technology expanding at ever increasing rates, get the most up-to-date information from our website.
Check out what's new at www.gates.com

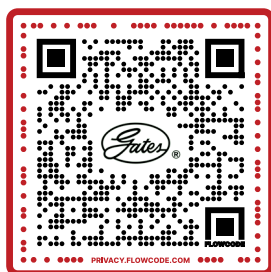
Features to look for:



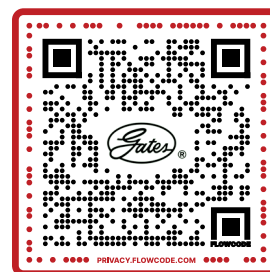
For new product information and updates, check us out on
www.linkedin.com/company/gates-corporation/



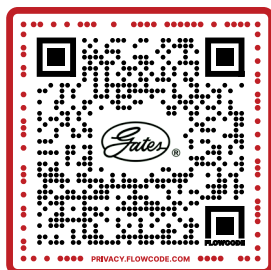
Downloadable catalogs:
www.gates.com/us/en/knowledge-center/resource-library/product-catalogs.html



Electronic crimp data:
ecrimp.gates.com



Instructional and product information:
www.youtube.com/@GatesNorthAmerica



Gates rep and distributor locator:
gatesconnect.com



CLEANER, STRONGER, BETTER

FROM COOLING HIGH-PERFORMANCE DATA CENTERS TO POWERING INDUSTRIAL OPERATIONS.

GATES DATA MASTER™ HOSES ARE BUILT FOR PRECISION, DURABILITY, AND RELIABILITY IN DEMANDING ENVIRONMENTS.

- Engineered for High-Performance Fluid Transfer: Designed to withstand extreme pressure and temperature ranges in demanding industrial environments.
- Leak-Resistant Construction: Delivers consistent reliability with robust fittings and advanced materials that help minimize downtime and maintenance costs.
- Flexible and Durable by Design: Built with industry-leading bend radius and abrasion resistance for easier routing and long-lasting performance.
- Versatile Across Applications: Proven performance in markets ranging from data centers and semiconductor manufacturing to general industrial and process cooling.
- Color Coding: Data Master™ MegaFlex™ is available in white as a multi-purpose large I.D. data center hose, blue for supply lines, and red for return lines. Customize your cooling system for maximum efficiency.



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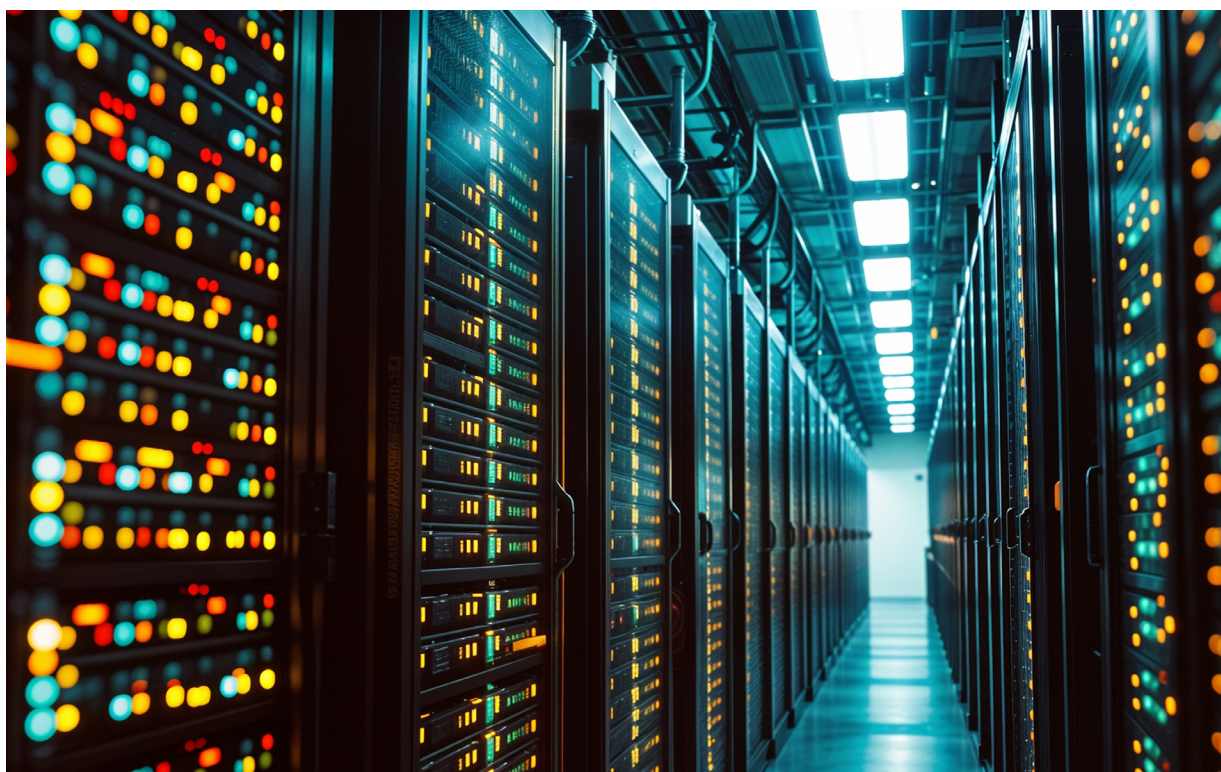
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UNIVERSAL QUICK DISCONNECT (UQD)

FAST, TOOL-FREE CONNECTIONS

- Fast, Secure Connections: Designed for efficient installation and removal without tools, reducing downtime and simplifying maintenance.
- Engineered for Leak Prevention: Precision-machined components and robust sealing technology deliver consistent, leak-resistant performance under pressure.
- Optimized for Liquid Cooling Systems: Ideal for high-performance cooling in data centers, industrial automation, and other mission-critical applications.
- Universal Compatibility: Built to integrate seamlessly with Gates Data Master™ hoses and other system components for a complete, end-to-end solution.





GATES INDUSTRIAL HOSE SALES GUIDE

INDUSTRY	APPLICATION	POTENTIAL TARGETS	GATES HOSE RECOMMENDATION	COUPLING SOLUTION	KEY VALUE PROPOSITION	HOSES
AG MASTER 	Ag Spraying	Ag Cooperatives, Chemical/fertilizer providers	Ag Master 200 /250	Nylon, polypropylene, SS w/SS band clamps	EPDM tube/ cover for diluted ag chemicals and fertilizers, including spray boom nozzle feed lines	
	Ag Spraying	Ag Cooperatives, Chemical/fertilizer providers	Ag Master Solution 150SD	Polypropylene Cam & Groove w/SS band clamps	EPDM tube/ cover for diluted ag chemicals and fertilizers including sprayer boom feed lines	
	High Pressure Lawn and Tree Spraying	Lawn and tree spraying companies	Ag Master Spray 600 / 800	GLX, SS	Green and yellow striated covers for firmer gripping and easy visibility	
	Sewage-Porta-Potty and sewage pit evacuation	Portable toilet rental companies, industrial sewage/ vacuum	Super-Vac MegaFlex & Ag Master PVC	Cam and Groove w/band clamps	Super-Vac MegaFlex-Heavy Duty rubber hose, yet lightweight and flexible. Ag Master PVC is lightweight and inexpensive	
BULK MASTER 	Dry Cement/ Dry Bulk Transport	Dry Cement Haulers	Bulk Master Dry Cement	Cam & Groove w/band clamps	Good (1 / 8" tube), better (3 / 16" tube), best (1 / 4" tube) options, static conductive tube	
	Sand/Shot Blast	Sand blast companies, commercial painters	Bulk Master Sand Blast	Special screw-on couplings	3 / 8" tube thickness for extreme wear	
	Hot Air Blower Hose	Dry Cement Haulers	Bulk Master Hot Air Blower HT	Mostly Cam & Groove w/band clamps (even though not officially recommended)	350° F temp rating for hot air, specially cured EPDM tube, caple of handling mild chemicals and water (125° F max)	
CHEM MASTER 	Full strength Ag Chemical transfer-mixing operations	Ag Cooperatives, Chemical/fertilizer providers	Chem Master Plus UHMW/XLPE	Permanently attached crimped couplings in various metals (SS is most common)	Gatron proprietary modified cross-linked polyethylene used as the tube in the XLPE hose and used as a backing layer in the UHMW hose for an extra layer of chemical protection and superior coupling retention at high temps, multiple color options for color coding	
CLEAN MASTER 	Livestock Operations & Ag Equipment Cleaning	Livestock producers, food producers	Clean Master™ Pressure Wash Hose	MegaCrimp	Flexible, compact, lightweight	
	Heavy Duty Commercial and Industrial Cleaning	Mobile Cleaning, Car washes, Cleaning services, Painters	Clean Master™ Pressure Wash Hose	MegaCrimp	Flexible, compact, lightweight, assemblies	
FOOD MASTER 	Food & Beverage transfer and grain hauling	Food/Beverage Haulers, F&B producers, breweries	Food Master XTreme, Beverage, Oils & Dairy, Dry Goods	Crimped/banded SS sanitary fittings, SS and aluminum Cam and Groove	Heavy Duty Sanitron tube material and rust proof monofilament helix for water based products, food grade nitrile for oils & dairy, abrasion resistant tubes for grains	
WATER MASTER 	Water Discharge (dewatering)	Construction companies, utility and municipalities	Water Master PVC Layflat	Cam and Groove, combination nipples, either band clamps or crimped with ferrule	Blue (light duty) and red (medium duty) layflat options	
	Water Suction/ Discharge (SD)-Large ID	Everywhere	Water Master (all), Ag Master (all)	Cam and Groove, combination nipples, either band clamps or crimped with ferrule	Many options	

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FUEL MASTER 	Fuel Oil and diesel delivery (not gasoline)	Fuel oil delivery companies, equipment fleet services	Fuel Master Delivery	Brass swaged couplings	Abrasion resistant cover	
	Fuel Transfer-PVC Drop Hose (Underground tanks)	Petroleum Delivery Companies	Fuel Master PVC	Cam and Groove, combination nipples, special drop hose connections	Abrasion resistant PVC helix, Class A oil resistant tube	
	Fuel Curb Pump	Petroleum Service Companies	Fuel Master Curb Pump	MegaCrimp, chrome plated brass reusable, aluminum stem and ferrule	Three options-Standard Fuel, green diesel, up to E85 UL 330A, premium CPE cover for superior ozone and weather resistance	
	Propane	Propane Delivery Companies	Fuel Master LP350	Crimpable with Gates couplings	Sizes 1/4" through 3", Gates coupling offering, suitable for use with natural gas up to 50psi in well ventilated areas	
	Fuel Transfer-Rubber	Tank truck operations, earth moving contractors, O&G	Fuel Master 150SD and MegaFlex	Cam and Groove, combination nipples, either band clamps or crimped with ferrule	Constant contact (XTreme) and transfer applications, plus MegaFlex 1:1 min bend ratio (Hose ID = MBR)-lightweight, easier to handle, and more flexible	
MINE MASTER 	Outdoor Construction High Pressure Air	Construction companies, Earth moving companies	Mine Master Air Drill 500 /600 HT, 1000 Spray	Universal air w/ interlocking clamps, combination nipples	Wire braid for heavy duty air applications such as "Bull hose"	
PLANT MASTER + PLANT MASTER STEAM 	Ducting-light duty	Ventilating and exhaust systems	Air Duct	Cam and Groove, combination nipples, either band clamps or crimped with ferrule	Sizes from 5/8" through 5-1/2". Chloroprene impregnated fabric cover. High oil resistance	
	Jackhammer Hose	Construction companies, concrete companies	Various Plant Master Options	Universal air w/ interlocking clamps	Good, better, best options from low pressure (150-200).	
	Shop Air	Everywhere	Plant Master Plus/ Charter Air	GLX, brass stem and ferrule, steel w/ band clamps	Medium oil resistant tube for in-line lubricators and compressor blow-by oil, assemblies	
	Heavy Duty Industrial Air	Everywhere	Plant Master XTreme 300AR, 501AR	GLX, MegaCrimp, brass, SS	Abrasion resistant covers are qualified with MegaCrimp, multiple colors	
	Light Oil	Everywhere	Plant Master XTreme (all)	GLX, brass, steel	All XTreme hoses have Class A oil resistant tubes and Class A or B oil resistant covers	
	Water Transfer-Small ID	Everywhere	Plant Master (all)	GLX, brass, steel, many others	Multiple color options for color coding, sizes from 1/4" through 2", ozone resistant covers	
	Lock-on Air	In-plant air systems	Plant Master Plus & XTreme Lock on	Brass lock on couplings	Multiple color options for color coding, sizes from 1/4" through 3/4", textile braid and spiral versions	
	Food processing plant washdown	Meat/food producers, industrial cleaning contractors	Plant Master XTreme 501AR, all Clean Master™ hoses	GLX, MegaCrimp, brass, SS	501psi yellow abrasion resistant cover (best in class), qualified with MegaCrimp. Combine with hydraulics, and 300psi Plant Master AR for a one coupling solution for air, water, washdown, and hydraulics. Easy system with less risk of missupplying couplings	
	Steam	Refineries, industrial processing	Plant Master Steam 250	Dixon/Campbell crimped couplings,	Crimped solution (select sizes), the Plus red offering is oil resistant for oily surface applications	



GATES INDUSTRIAL HOSE SALES GUIDE

INDUSTRY	APPLICATION	POTENTIAL TARGETS	GATES HOSE RECOMMENDATION	COUPLING SOLUTION	KEY VALUE PROPOSITION	HOSES
DATA MASTER 	CRAC/CRAH units, chilled water systems, in-row & in-rack cooling, direct-to-chip, liquid immersion cooling	Data centers using liquid or hybrid cooling; OEMs building cooling manifolds and high-density systems; rack and CDU integrators	Data Master™	Push-Lock/Lock-On; Crimp (GLX & SS); Clamped with hose bead (within working pressure; not for Lock-On fittings)	Cleaner coolant systems (zinc-free EPDM), superior flexibility for tight routing, excellent ozone resistance, reliable performance, PG25-compatible, compact profile for space-restricted installs	 
	Large-diameter cooling loops, CDUs, manifolds, high-flow supply/return lines in data centers	Enterprise & hyperscale data centers, CDU manufacturers, manifold builders, facility engineers needing high-flow, long-run routing solutions	Data Master™ Mega Flex	Gates Full Flow Couplings or Sanitary Flange Couplings for large-diameter data center systems	Industry-leading large-diameter hose with high flexibility (1.1–1.5:1 MBR ratio), faster coolant flow, zinc-free EPDM for cleaner systems, ozone resistance, field-serviceable routing, available in white/blue/red for supply & return identification	

EFFICIENCY. ENGINEERED.

HOW THE SYSTEM WORKS

The names are linked to an industry or application (ag, chem, mining, etc.), so you can tell instantly where the hose is meant to be used.

We've also standardized the way we describe our hoses:

Standard, Plus and Xtreme™. These three levels represent increasing degrees of performance, such as resistance to oil, abrasion or chemicals.

PART NUMBERS FOR INDUSTRIAL HOSE

EXAMPLE: **2X100FT AG MASTER PVC XTREME 100SD - 32AG2300**

32 ↓	AG ↓	2 ↓	3 ↓	0 ↓	0 ↓
DASH SIZE	PRODUCT FAMILY	FAMILY TYPE	SECONDARY FAMILY (IF APPLICABLE)	OTHER DISTINCT FACTOR	NUMERIC DIFFERENTIATOR
Uses the hydraulic nomenclature for 1/16 of an inch	AG = Ag Master AM = Air Master BG = Black Gold BM = Bulk Master CL = Clean Master™ DM = Data Master™ EH = Engine Hose FD = Food Master FM = Fuel Master MM = Marine Master PM = Plant Master WM = Water Master	1 = Regular 2 = PVC 3 = Xtreme 4 = Plus 5+ = Other(s)	2 = PVC 3 = Xtreme 4 = Plus 5+ = Other(s)	0 = Regular 1 = CL (Continuous Length) 3 = Assembly 6 = Lock-on 9 = Mega	Strictly a numeric value used to differentiate where it is the same hose but a different length, color, etc.

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MORE THAN JUST NAMES

We've made our industrial hose naming system more efficient and user-friendly. This change uses descriptive and intuitive names. The easy-to-understand classification:



**QUICKLY FIND
THE RIGHT HOSE**

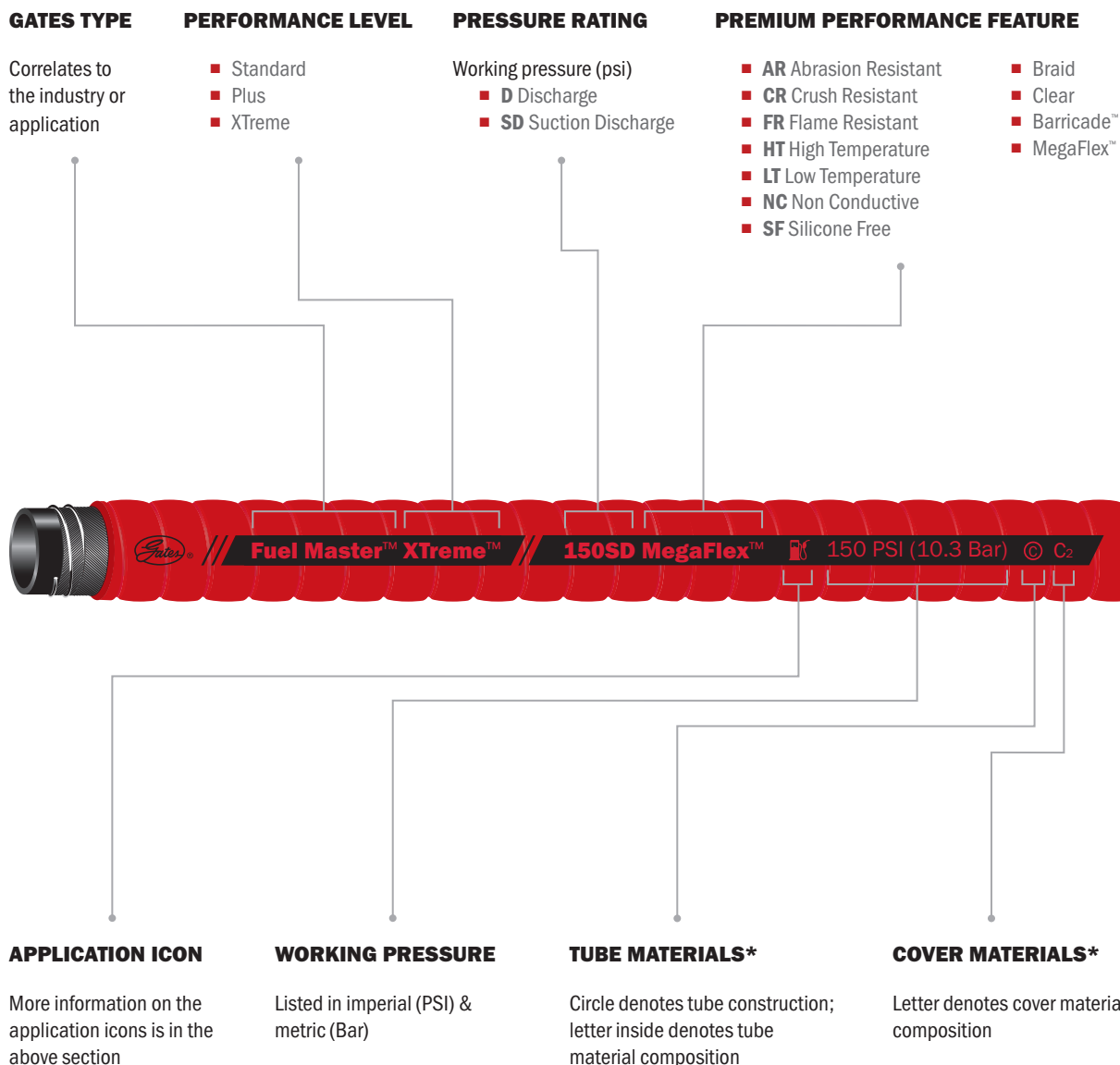


**REDUCE
THE LEARNING CURVE**



**INVENTORY
ORGANIZATION**

HOSE IDENTIFICATION SYSTEM



* See following page for material codes.



DEFINITION OF AN INDUSTRIAL HOSE



INDUSTRIAL HOSE

An industrial hose is a flexible connector used for conveying liquids, solids and gases. A typical industrial hose is dragged, coiled, run over, kinked, and subjected to all kinds of wear and tear. Therefore, the application and its environment must be taken into consideration for proper hose selection.

Restricted Applications (but not limited to):

- Out-of-sight applications
- Anything in-flight (airborne)
- Gases with working pressures above 500psi (including compressed air)
- Certain hazardous or cryogenic materials/gases

For further information and a complete list, contact your Gates rep or the PA Tech Line 303-744-5070 or fppasupport@gates.com



Tube – Must be resistant to the material being conveyed. A variety of compounds can be used depending on the application.

Reinforcement – The construction of the hose may consist of multiple layers of fabric, yarn or wire depending on hose pressure specification and uses.

Cover – Its primary purpose is to protect the tube and reinforcement from external factors such as ozone, weather, abrasion and heat. A variety of compounds can be used depending on the application.

EXPERT ADVICE



CAUTION

- Hose should not be used in “out-of-sight” applications where the hose is buried, encased or submerged. Use rigid pipe in these applications.
- Hose has a limited service life and is not meant to be used in permanent applications.



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SELECTION OF HOSES & COUPLINGS



PRECAUTIONARY NOTES

There are many types of industrial hoses – all designed for a particular application or several related applications. When hoses are mated with the proper couplings and used in the correct application, hose assemblies will give long, trouble-free service.

This catalog is designed to make certain that you obtain long service life by:

- Helping you select the proper hose and coupling from among the many types available
- Giving you suggestions on how to take reasonable care of the hose assembly and maintain it for maximum service life

Reference the STAMPED guide for proper hose selection. Select one of the recommended couplings from the hose coupling information section. Couplings are recommended in each individual Hose Specification Section.

Provide for proper care and maintenance of the assembly. Certain critical applications require the use of just one specific hose or group of hoses.

DO NOT SUBSTITUTE.

CRITICAL APPLICATION	RECOMMENDED GATES HOSES
Steam	Select a hose that meets the application requirements from Steam Hose Section only.
LP Gas	Fuel Master LP350
Corrosive Chemicals (Acids–Bases)	Select a hose that meets the application requirements from Chem Master Hose Section only.
Edible Products	Select a hose that meets application requirements from Beverage and Food Hoses. Hose must have FDA tube stock.

SPECIAL HOSES ARE AVAILABLE.

Gates can furnish special hoses for specific applications.

For information, contact your local field representative – furnishing complete details of hose application.

Rubber hoses are used basically to convey material. They are used for a variety of reasons, but principally for:

- Flexibility; allows for changes in alignment, hookup or outlet
- Absorbing vibration
- Resistance to corrosive fluids
- Resistance to abrasion
- Providing a closed system

In applying any product, the more you know about the application, the better the product you choose to meet the needs of the application. This is particularly true with hose because of the many variables involved.

Each type of hose and coupling is designed to give satisfactory, safe service life for a particular application. To obtain this service life, the user should:

- Select the proper hose and couplings for the application
- Take reasonable care of the hose assembly while it is in service
- Maintain the hose assembly in good working condition
- Observe all applicable safety regulations

If a hose assembly was incorrectly selected to solve an application problem, there is very little that care and maintenance can do to prolong its service life. It's very simple: hoses will fail soon regardless of the care and maintenance provided if they are misapplied.

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SELECTION OF HOSES & COUPLINGS



PRECAUTIONARY NOTES

When designing a system with rubber hose, engineering principles regarding materials always apply. Take advantage of the outstanding characteristics of rubber materials listed on the Characteristics and Resistance Information for Hose Tube and Cover Compounds page and avoid those conditions that shorten hose life. Some of these conditions are:

- Exposure to higher-than-rated temperatures
- Exposure to severe external abuse such as kinking, pulling, excessive bending
- Exposure to corrosive fluids to which hose has little resistance
- Subjecting hose to higher than rated working pressure/high surge pressure

The process of selecting hoses usually is resolved in one of two ways:

- Making the optimum choice from several possible selections for an application
- Making the only choice, which satisfies all the requirements of a somewhat special application; i.e., transfer of LP Gas

Hoses are versatile, and it's often possible to use one type of hose for several different applications. However, certain specific applications are critical and/or hazardous, and the only type of hose used should be the one Gates recommends for that application. Some of the critical or hazardous applications involving hoses are:

- Steam
- Liquid Petroleum Gas (LPG)
- Corrosive chemicals
- Air Drill operation

Refer to the product description pages in this catalog for details of hoses used in these applications.

The hoses listed in this Hose Finder may be found in one or more additional Gates catalogs or Market Specifications publications.

The Hose Finder section of this catalog is intended to give you a reference for quickly locating standard line hoses for a given application. Hoses are listed by size (I.D.) and rated working pressure. Pertinent specification information is also provided for each hose.

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EXPERT ADVICE: RESTRICTIVE APPLICATIONS

Proper hose selection is the first step in preventive maintenance. Selecting the best product for the application will allow you to obtain the maximum life expectancy from the product for the most value. **When selecting the correct hose, use the acronym STAMPED as your guide to defining critical and important characteristics:**

SIZE

I.D. (inside diameter)
O.D. (outside diameter)
Length
Flow rate requirements
(GPM for liquids; CFM for gases)

TEMPERATURE

Consider ambient and internal temperatures, as well as temperature impact on the material being conveyed.
Where will the hose be used?

APPLICATION

How will the hose be used?
How often will the hose be used (continuous, intermittent, seldom)?
What are the environmental conditions?
Special hose construction needs (crush resistant)?
Conductivity requirements (non-conductive, static conductive, static dissipating)?
Is the hose used in a critical application (flammable fluids, compressed gas, steam)?
Government or industry standard requirements?
For these applications, only use specially designed hoses:

- Steam
- LP Gas
- Aircraft Ground Refueling
- Corrosive Chemicals



STAMPED



MATERIAL CONVEYED

Chemical name(s) and state(s) – liquid, solid or gas
Food, pharmaceuticals, cosmetics
Dry or powder
Liquid
Consider the cover and what it will be exposed to

PRESSURE

What is the working pressure?
What is the maximum surge pressure?
Is there a vacuum?

END REQUIREMENTS

What type of end connections?
See ["Proper Coupling Selection"](#)

DELIVERY (Volume & Velocity)

Is this a new design or an alteration from an existing design?
Is the hose I.D. appropriate for the fluid volume/velocity?

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NOMENCLATURE PERFORMANCE LEVELS

PERFORMANCE LEVEL DESCRIPTIONS AS THEY PERTAIN TO XTREME™, PLUS AND STANDARD DESIGNATIONS.

FAMILY	BRAND	PERFORMANCE RATING	XTREME	PLUS	STANDARD
Chemical	Chem Master	Chemical Resistance	More than 1250 highly corrosive chemicals	More than 400 basic chemicals	Mild chemicals
Air and Multi-Purpose	Plant Master	Oil Resistance	High Oil Resistance (ARPM Class A)	Medium Oil Resistance (ARPM Class B)	Limited Oil Resistance (ARPM Class C)
Food and Beverage	Food Master	Product Range	Many types of food and beverage products	N/A	Specific food and beverage products
Material Handling	Bulk Master	Tube Thickness	1/4" tube	3/16" tube	1/8" tube
Oilfield	Black Gold	Choke & Kill	API 16C	N/A	Lloyds 1000/499
Petroleum	Fuel Master	Petroleum Resistance	Constant contact and alternative fuels	N/A	Transfer of petroleum products
Steam	Plant Master	Cover Design	N/A	Oil resistant and red non-marking cover	Standard black cover

SELECTING THE PROPER HOSE

CHARACTERISTICS OF HOSE MATERIAL TYPES

The characteristics shown below are for the normal or usual range of these specific materials. Material can be changed somewhat through different compounding to meet the requirements of specialized applications.

Tube and cover material may occasionally be upgraded to take advantage of improved materials and technology.

For detailed information on a specific hose tube or cover material, check the Chemical Resistance Table and also the specific hose page.

	Polychloroprene	Nitrile	Nylon	CSM	EPDM	CPE	PTFE
Flame Resistance	Very Good	Poor	Good	Good	Poor	Good	Good
Petroleum Base Oil	Good	Excellent	Good to Excellent	Good	Poor	Very Good	Excellent
Diesel Fuel	Fair to Good	Good to Excellent	Good to Excellent	Good	Poor	Good	Excellent
Resistance to Gas Permeation	Good	Good	Good to Excellent	Good to Excellent	Fair to Good	Good	Good to Excellent
Weather	Good to Excellent	Poor	Excellent	Very Good	Excellent	Good	Excellent
Ozone	Good to Excellent	Poor (For Tube); Good (For Cover)	Excellent	Very Good	Outstanding	Good	Excellent
Heat	Good	Good	Good	Very Good	Excellent	Excellent	Excellent
Low Temperature	Fair to Good	Poor to Fair	Excellent	Poor	Good to Excellent	Good	Excellent
Water-Oil Emulsions	Excellent	Excellent	Good to Excellent	Good	Poor	Excellent	Excellent
Water/Glycol Emulsions	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Diesters	Poor	Poor	Excellent	Fair	Excellent	Very Good	Excellent
Phosphate Esters	Fair (For Cover)	Poor	Excellent	Fair	Very Good	Very Good	Excellent
Phosphate Ester Base Emulsions	Fair (For Cover)	Poor	Excellent	Fair	Very Good	Very Good	Excellent

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PROPER COUPLING SELECTION

CRITICAL APPLICATIONS:

Specific couplings are required for critical applications. These critical applications include:

- Corrosive chemical transfer
- Propane gas
- Oilfield drilling
- Petroleum products transfer
- Steam
- Only certified, coupled assemblies should be used for ground fueling of aircraft

If more than one coupling style is recommended, final selection of which coupling to use will be based on user requirements. The following are common issues that help identify which coupling style is best for the application:

- Attachment options—ferrule, band or clamp
- Availability of size
- Availability of required thread type
- Cost
- Coupling compatibility with conveyed material
- Quality
- Ease of handling

No substitutions should be made unless written authorization has been given by the hose manufacturer, coupling manufacturer and the end user for the specific application.



Reference [Gates/ecrimp.com](https://www.gates.com/ecrimp) or the mobile app for proper coupling selection and crimp specifications.





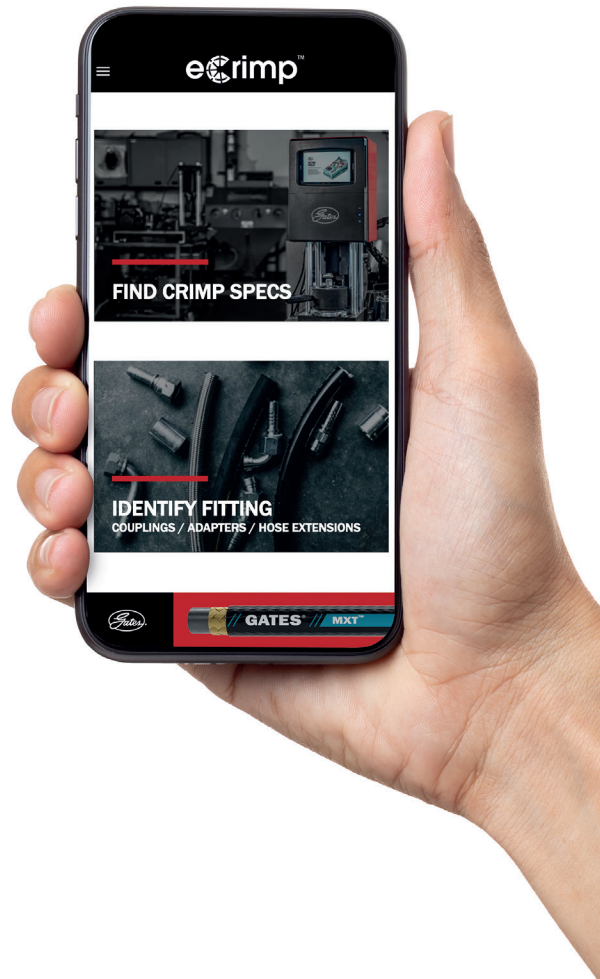
CRIMP WITH THE PRECISION OF GATES

QUICKLY FIND HOSE AND CRIMP SPECIFICATIONS

Gates eCrimp™ database allows Gates end users and distributors to find and print the most up-to-date crimp specifications for Gates fittings for use with Gates hydraulic and industrial hose products. It provides crimping instructions, crimp diameter, maintenance and troubleshooting information for all Gates crimpers.

eCrimp:

- Reduces downtime with hose assembly guides
- Eliminates potential dangers of an improperly crimped hose
- Quickly and easily finds exact crimping specifications from your browser
- Allows you to create custom reports around the products which you use most



Go to ecrimp.gates.com for more information on the web version and mobile app.

FOR OTHER HOSE AND COUPLING CONFIGURATIONS, REFERENCE WWW.GATES.COM/ECRIMP



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GC™ 16XD

Part Number: 70115
Product Number: 7480-7006

- Crimps 1/4" to 1" wire braid; 3/8" to 3/4" four spiral wire hose.
- User-friendly horizontal loading for crimping in the field.
- 80 ton crimp force.
- Multiple pump options available for maximum capabilities.
- Matches nicely with 18V DC Battery Pump.



MOBILECRIMP™ 4 - 20

Digital Dial
Part Number: 77421
Product Number: 7480-0051

- Positive Stop**
Part Number: 77420
Product Number: 7480-0050
- Crimps 3/16" to 1-1/4" wire braid; 3/8" to 1-1/4" four spiral wire hose.
 - Portable and lightweight – only 57 pounds.
 - Great for jobs in the field.
 - Multiple pump options for maximum flexibility.



POWER CRIMP™ 707

Part Number: 77700
Product Number: 7480-0043

- Crimps 1-8" to 1-1/4" wire braid; 3/8" to 1-1/4" four spiral wire hose.
- The most precise, yet simplest crimper made.
- The first crimper with electronic digital readout to indicate crimp diameter setting.
- Crimps straight and bent tube couplings plus 45° and 90°. Block style terminations require notched cone.



GC™ 20 Cortex™

Part Number: 70446
Product Number: 7480-0009

- Crimps 1-8" to 1-1/4" wire braid; 3/8" to 1-1/4" four spiral wire hose.
- Access to continuously-updated eCrimp™ content with new product crimp specs.
- Intuitive touch-screen controls reduce assembly time and saves favorites for faster crimping.
- Calibration and maintenance tracking with reminders to promote quality control and uptime.
- On-board videos simplify the training of new operators.



SC 32™

Part Number: 77500
Product Number: 7480-0070

- Crimps 1/8" to 2" wire braid; 3/8" to 2" six spiral wire hose.
- Compact design to minimize space required.
- High-ton ram force with an integrated pump.
- Pump pre-wired for 220V (1 phase) outlets.
- Come with all the base plates and spacers required to crimp up to 2" hose.



GC™ 32 FLEX TSi™

Part Number: 78395
Product Number: 7480-0013

- Crimps 3/16" to 2" wire braid; 3/8" to 2" six spiral wire hose.
- A tablet command interface with Gates eCrimp allows the user to look up relevant crimp data.
- Indexing shoes – automatic grease distribution.
- Allows self-learning and calibrates to assembly.



GC™ 32 TSi™

Part Number: 78827
Product Number: 7480-7004

- Crimps 3/16" to 2" wire braid; 3/8" to 2" six spiral wire hose; 2-1/2" low pressure hose.
- Touch screen simplifies hose and coupling selection.
- Precision crimps without looking up data or adjusting crimper settings.
- After crimp is complete, pinch decompression mode verifies crimp O.D. is within tolerance.
- Controller is updated where wireless internet is available, or via thumb drive.
- All the necessary tools and information reside on-board to crimp, leak-free, factory-quality hydraulic hose assemblies.



GC™ 96 TSi™ - 3

Part Number: 78392
Product Number: 7480-9003

- Crimps 3/16" to 3" wire braid; 3/8" to 3" six spiral wire hose; 2-1/2" to 6" low pressure hose.
- Electronic touch screen control panel for fast input of crimper settings.
- Horizontal front-end feed makes crimping easier and convenient.
- 620 ton force that allows crimping of a wide variety of couplings.
- 2 speed die closure and rapid retract permits fast assembly fabrication.
- Full range die sets that enable production of a wide range of hose assemblies.



FOR COMPLETE CRIMPER SPECIFICATIONS, SEE THE GATES HYDRAULIC HOSE PRODUCTS CATALOG (35093)

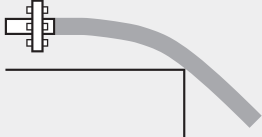
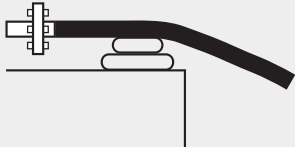
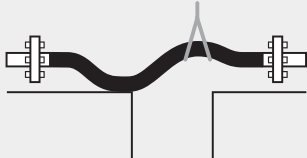
www.gates.com/us/en/knowledge-center/resource-library/product-catalogs



HOSE ASSEMBLY ROUTING

SAFETY CONNECTIONS HOSE ROUTING

Build a safe and higher-performing system by avoiding kinks and correctly supporting and protecting industrial hose.

WRONG 		RIGHT 
	Properly support hose at coupling.	
	Avoid kinks by practicing proper plumbing practices.	
	Keep hose away from sharp corners or objects.	
	Prevent hose from sagging.	
	Properly support hose across gaps.	
	Avoid lifting hose with inadequately placed support.	

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HOSE ASSEMBLY INSPECTIONS

PERIODIC INSPECTIONS - PLANNING FOR SAFETY AND MAXIMUM PERFORMANCE

Periodic inspections of the hose and fittings are required prior to, during, and after use. Hoses that have become old, worn or damaged can present a danger to personnel and to the environment. Hoses that are not properly maintained can fail, which may result in costly material spills, cleanup, downtime and injury. Planned inspections, corrective actions and hose replacements can be less expensive than replacements or repairs made after a failure occurs.

WHEN AND HOW OFTEN SHOULD YOU INSPECT HOSE ASSEMBLIES?

Inspection requirements will vary with each application type.

The following factors should be considered:

- Critical nature of the application
- Operating temperatures
- Operating pressures
- Environmental factors

IT IS HELPFUL TO THINK OF HOSE RISK MANAGEMENT AT TWO LEVELS:

LEVEL 1 INSPECTION-DAILY

Hose cover damage

- Cuts, cracks, abrasion, exposed reinforcement, etc.

Stiffness or hardening of the hose

- As a hose ages and is exposed to sunlight, ozone, extreme temperatures or chemicals, it can lose some of its resiliency and become stiff and hard. When flexed, a stiffened hose can crack, leading to a catastrophic failure.

Changes in color

- May indicate fluid incompatibility.
- May indicate ozone or aging effects.

Cover blisters

- Indicates fluid incompatibility.
- Permeation in the early stages of leakage.
- Blisters can break and expose reinforcement.

Kinked or flattened hose

- Restricts material flow and hose performance.

Leakage

WARNING: NEVER inspect a hose for leaks by running your hand over it while it is under pressure or contains the material being transferred.

- Look for spilled or leaking material under the hose assembly.
- Problem with coupling interface or attachment.
- Weeping from the hose.

Damaged hose reinforcement

- Soft or weak spot in the hose
- Flat spots in the hose
- Reduced flow or pressure
- Reinforcement exposed in the tube or on the cover



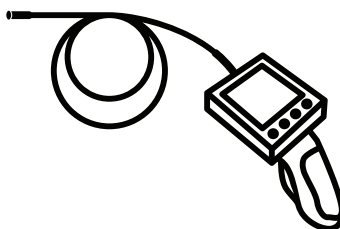
LEVEL 2 INSPECTION-AT SHUTDOWN

Level 2 inspections should be conducted during regular equipment shutdown or at least every three months, even if it means shutting the equipment down for the specific purpose of hose inspection.

Visually inspect for leakage

- ALWAYS conduct close inspection of the hose when pressure is released and the hose assembly does not contain potentially dangerous material.
- Escaping fluid under high pressure can penetrate and cut flesh, causing painful or severe injury.
- Hot materials and chemicals can cause serious burns and respiratory injury.

Inspect hose tube for hardness, color change, cracks, blisters, erosion, etc.



Hydrostatic pressure testing

WARNING: ALWAYS use water. Never test with flammable or corrosive fluids, solvents, or compressed gas.

- Test at regular intervals.
- Essential for hoses used in hazardous applications such as chemical, steam, petroleum and compressed gas transfer.
- NEVER use air or gas as the media for pressure testing.

ARPM HYDROSTATIC TESTING PROCEDURE

Hydrostatic testing should occur on ALL hose and couplings at regular intervals. Intervals for testing vary with each hose type.

WARNING: Always use water. Never test with flammable or corrosive fluids, solvents, or compressed gas.

Procedure:

1. The hose should be at room temperature.
2. The testing area should be clean and dry.
3. Lay the hose out straight to its full length.
4. If necessary, place the assembly on rollers. This allows the hose to be moved while under pressure.
5. Restrain the assembly if there is danger of uncontrolled movement during the test.
6. Conduct a visual inspection.
 - Look for cuts, gouges, bulges, soft spots, coupling slippage or any other signs of wear.
7. A hose assembly which does not pass a visual inspection should be replaced.
8. An assembly which passes a visual inspection is then connected to a test pump and the free end is fitted with a quick-opening valve.
9. Elevate the free end and fill the assembly with water from the pump.
10. As the hose fills with water, bleed the air out through the open valve. Close the valve and lower the assembly to the ground when all the air is out.
11. ARPM has testing literature available for each hose type. It is imperative to pressure test the assembly at the proper pressure.
12. Drain the hose and allow it to dry before returning it to service.

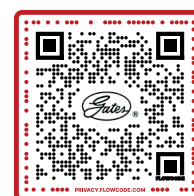
EXPERT ADVICE



CAUTION

Hose under pressure can be dangerous, so make sure to take necessary safety precautions:

- Safety glasses or PPE
- Shield between hose and operator
- Never touch hose under pressure



Safety precautions

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ARPM TOLERANCES

1. STEEL MANDREL HAND BUILT HOSE-WIRE AND NON-WIRE REINFORCED

HOSE I.D.		I.D.		O.D.	
MM	INCH	MM	INCH	MM	INCH
Up through 19	Up through ¾	±0.8	±0.031	±0.8	±0.031
Over 19 through 51	Over ¾ through 2	±0.8	±0.031	±2.4	±0.094
Over 51 through 76	Over 2 through 3	±1.6	±0.063	±2.4	±0.094
Over 76 through 203	Over 3 through 8	+1.6 / -3.2	+0.063 / -0.125	±3.2	±0.125
Over 203 through 304	Over 8 through 12	±3.2	±0.125	±4.8	±0.188
Over 304	Over 12	+3.2 / -6.4	+0.125 / -0.250	±6.4	±0.250
Enlarged Ends (All Sizes)		Same as Hose I.D.		Same as Hose I.D.	

NOTE: The O.D. tolerances do not apply to corrugated or convoluted hose. Metric (mm) dimensions are preferred.

2. NON-MANDREL VERTICAL BRAID AND SPIRAL HOSE

SIZE (IN.)	I.D. (IN.)	O.D. (IN.)
¾	± .025	± .031
¾ through ¾	± .031	± .031
1	± .047	± .047
1-¼ through 1-½	± .063	± .063

3. FLEXIBLE MANDREL HORIZONTAL BRAID HOSE

SIZE (IN.)	I.D. (IN.)	O.D. (IN.)
¼, ⅝, ¾	± .016	± .031
½, ⅝, ¾	± .023	± .031
1	± .028	± .031
1-¼, 1-½	± .031	± .063
2	+ .031	+ .063
2-½	± .039	± .063
3, 3+½, 4	± .063	± .063

4. SPECIFIED CUT LENGTH OF HOSE *

LENGTH (IN.)	TOLERANCE (IN.)
12 and under	± .125
Over 12 through 24	± .188
Over 24 through 36	± .250
Over 36 through 48	± .375
Over 48 through 72	± .500
Over 72	± 1%

* Helix wire hoses which can be coiled can appear shorter than the factory cut length. This phenomenon is normal, and the hose(s) will return to the factory cut length upon initial pressurization.

5. MADE-TO-ORDER HOSES WIRE-INSERTED CONSTRUCTION, GATES

LENGTH (IN.)	TOLERANCE (IN.)
Up to 5	± 1.0
5 to 10	± 1.5
10 to 20	± 2.5
over 20	± 1%

ROUNDNESS TOLERANCE

For vertical braid and spiral hose made with non-mandrel process, hoses can be slightly out of round. Using calipers, measure the OD at minimum and maximum diameters.

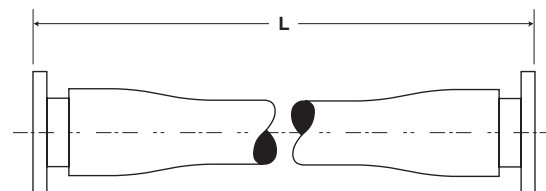
$$\frac{\text{MIN OD}}{\text{MAX OD}} \times 100 > 80\%$$



HOW TO MEASURE HOSE LENGTHS AND ASSEMBLIES



UNCOUPLED



COUPLED OR COUPLED AND FLANGED

Hose or hose assembly lengths ("L") are measured as shown above, unless otherwise specified.



GENERAL CARE AND MAINTENANCE OF HOSE

(REPRINTED FROM ARPM HOSE HANDBOOK 9TH EDITION)

Hose has a limited life and the user must be alert to signs of impending failure, particularly when the conditions of service include high working pressures and/or the conveyance or containment of hazardous materials. The periodic inspection and testing procedures described here provide a schedule of specific measures which constitute a minimum level of user action to detect signs indicating hose deterioration or loss of performance before conditions leading to malfunction or failure are reached.



SAFETY WARNING: Failure to properly follow the manufacturer's recommended procedures for the care, maintenance and storage of a particular hose might result in its failure to perform in the manner intended and might result in possible damage to property and serious bodily injury.

General instructions are also described for the proper storage of hose to minimize deterioration from exposure to elements or environments which are known to be deleterious to rubber products. Proper storage conditions can enhance and extend substantially the ultimate life of hose products.

Hose should not be subjected to any form of abuse in service. It should be handled with reasonable care. Hose should not be dragged over sharp or abrasive surfaces unless specifically designed for such service. Care should be taken to protect hose from severe end loads for which the hose or hose assembly were not designed. Hose should be used at or below its rated working pressure; any changes in pressure should be made gradually so as to not subject the hose to excessive surge pressures. Hose should not be kinked or be run over by equipment. In handling large size hose, dollies should be used whenever possible; slings or handling rigs, properly placed, should be used to support heavy hose used in oil suction and discharge service.

GENERAL TEST AND INSPECTION PROCEDURES FOR HOSE

An inspection and hydrostatic test should be made at periodic intervals to determine if a hose is suitable for continued service.

A visual inspection of the hose should be made for loose covers, kinks, bulges or soft spots which might indicate broken or displaced reinforcement. The couplings or fittings should be closely examined, if there is any sign of movement of the hose from the couplings, the hose should be removed from service.

The periodic inspection should include a hydrostatic test for one minute at 150% of the recommended working

pressure of the hose. An exception to this would be woven jacketed fire hose*. During the hydrostatic test, the hose should be straight, not coiled or in a kinked position.

Water is the usual test medium, but following the test the hose may be flushed with alcohol to remove traces of moisture. A regular schedule for testing should be followed and inspection records maintained.

SAFETY WARNING: Before conducting any pressure tests on hose, provision must be made to ensure the safety of the personnel performing the tests and to prevent any possible damage to property. Only trained personnel using proper tools and procedures should conduct pressure tests.

* Woven jacket fire hose should be tested in accordance with the service test provisions contained in the current edition of National Fire Protection Association Bulletin No. 1962 - Standard for the Inspection, Care, and Use of Fire Hose, Couplings, and Nozzles and the Service Testing of Fire Hose.

SAFETY WARNING (FOR PRESSURE TESTING)

1. Air or any other compressible gas must never be used as the test media because of the explosive action of the gas, should a failure occur. Such a failure might result in possible damage to property and serious bodily injury.

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2. Air should be removed from the hose by bleeding it through an outlet valve while the hose is being filled with the test medium.
3. Hose to be pressure tested must be restrained by placing steel rods or straps close to each end and at approximate 3 m (10 foot) intervals along its length to keep the hose from "whipping" if failure occurs; the steel rods or straps are to be anchored firmly to the test structure but in such a manner that they do not contact the hose which must be free to move.
4. The outlet end of the hose is to be restrained so that a blown-out fitting will be stopped.
5. Provisions must be made to protect testing personnel from the forces of the pressure media if a failure occurs.
6. Testing personnel must never stand in front of, or in back of, the ends of a hose being pressure tested.
7. If liquids such as gasoline, oil, solvent or other hazardous fluids are used as the test fluid, precautions must be taken to protect against fire or other damage should a hose assembly fail and the test liquid be sprayed over the surrounding area.

The Association for Rubber Products Manufacturers has separately published a series of Hose Technical Bulletins describing hoses designed for different applications which detail maintenance, testing and inspection recommendations. Reference should be made to the current ARPM Catalog of Publications, to determine the availability of the latest editions (www.arpminc.com).

PUBLICATION NO.

IP 11-1 Steam Hose

IP 11-2 Anhydrous Ammonia Hose

IP 11-4 Oil Suction and Discharge Hose



To increase hose life it is always best to drain hose after each use.

EXPERT ADVICE



An apron, safety glasses or facshield, rubber boots and gloves should be worn to help protect personnel from potential injury.

HOSE CLEANING

There are many different methods used to clean hose assemblies. An apron, safety glasses or face shield, rubber boots and gloves should be worn to help protect the person doing the cleaning from potential injury. Some suggested methods for select hoses in this catalog are listed below. Which method to use and how often cleaning should be performed is based on the following:

- Type of hose
- Residual material in the hose
- Cleanliness requirements for the application
- Cleaning facilities available
- Consideration for disposal of the residual material and cleaning solutions(s)
- Requirements for special applications such as foods, pharmaceuticals, etc.

SOLUTION RECOMMENDATIONS

1. Cleaning solutions should be chosen that will dissolve or remove the residual material without damaging the hose assembly.
2. A dilute solution of soap in water can often be sufficient. CAUTION – Some chemicals, such as concentrated acids or bases, can react with water releasing heat and byproducts, and possibly splatter.
3. Consult the MSDS of the material being cleaned to identify potential cleaning solutions.
4. After identifying potential cleaning solutions, check Chemical Resistance Table in this catalog for compatibility with hose tube and cover.
5. Non-compatibility of a cleaning solution can cause damage to the hose.

EXPERT ADVICE



CAUTION

- Some chemicals, such as concentrated acids or bases, can react with water, releasing heat and by-products, and possibly splatter.
- Never leave an operating transfer hose unattended.



GENERAL CARE AND MAINTENANCE OF HOSE - CONTINUED

FLUSHING OR IMMERSING IN A CLEANING BATH

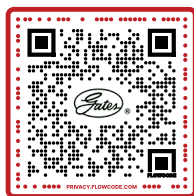
1. Do not exceed the maximum working pressure or temperature for the hose.
2. The cover of the hose should also be washed or wiped to remove any residual material.

STEAM CLEANING

1. Steam cleaning is NOT generally recommended. High temperatures can accelerate aging of a hose and shorten service life.
2. Do not exceed the maximum temperature rating of the hose. Doing so can cause defects such as tube de-lamination (reducing tube to reinforcement adhesion), tube cracking or tube flow leaving thin spots.
3. Never use superheated steam. This will exaggerate the potential damages noted above. Only "open-end" 50 psi steam should be used.
4. If the hose has blockage, remove it before introducing steam.
5. If the steam source has a wand attached, use caution inserting the wand so that physical damage to the hose is not caused. Sharp edges on the wand can cut the tube, and thin spots could occur where the hot wand contacts the tube.

RECOMMENDED CLEANING OF CHEMICAL HOSE

1. Drain the hose after each use.
2. Flush with water or other neutralizing cleaning solution.
3. Properly dispose of drained fluid and cleaning waste.
4. Between uses, store the hose in a clean, dry environment away from sunlight.
5. Avoid cross contamination. Dedicate a hose to handle a specific chemical.



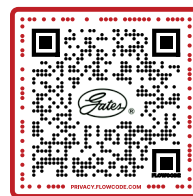
Chemical Risks

RECOMMENDED CLEANING OF FOOD HOSE

1. Drain the hose after each use.
2. Flush with water or other cleaning solution.
3. Properly dispose of drained material and cleaning waste.
4. Between uses, store the hose in a clean, dry environment away from sunlight.
5. Avoid cross contamination. Dedicate a hose to handle a specific food material.

SHUTTLE METHOD

- This method uses a shuttle to travel through the inside of the hose assembly to wipe residual material from the hose. Be sure to handle the shuttle and residual material safely to avoid injuries or damage.



Shuttle cleaning method

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STORAGE

Rubber hose products in storage can be affected adversely by temperature, humidity, ozone, sunlight, oils, solvents, corrosive liquids and fumes, insects, rodents and radioactive materials.

The appropriate method for storing hose depends to a great extent on its size (diameter and length), the quantity to be stored and the way in which it is packaged. Hose should not be piled or stacked to such an extent that the weight of the stack creates distortions on the length stored at the bottom.

Since hose products vary considerably in size, weight and length, it is not practical to establish definite recommendations on this point. Hose having a very light wall will not support as much load as could a hose having a heavier wall or hose having a wire reinforcement. Hose which is shipped in coils or bales should be stored so that the coils are in a horizontal plane.

Whenever feasible, rubber hose products should be stored in their original shipping containers, especially when such containers are wooden crates or cardboard cartons which provide some protection against the deteriorating effects of oils, solvents and corrosive liquids; shipping containers also afford some protection against ozone and sunlight.

Certain rodents and insects will damage rubber hose products and adequate protection from them should be provided.

Cotton jacketed hose should be protected against fungal growths if the hose is to be stored for prolonged periods in humid conditions in excess of 70 percent.

The ideal temperature for the storage of rubber products ranges for 50° to 70°F (10-21°C) with a maximum limit of 100°F (38°C). If stored below 32°F (0°C), some rubber products become stiff and would require warming before being placed in service. Rubber products should not be stored near sources of heat, such as radiators, base heaters, etc., nor should they be stored under conditions of high or low humidity.

To avoid the adverse effects of high ozone concentration, rubber hose products should not be stored near electrical equipment that may generate ozone or be stored for any lengthy period in geographical areas of known high ozone concentration. Hose should not be stored in locations where the ozone level exceeds the National Institute of Occupational Safety and Health's upper limits of 0.10 ppm. Exposure to direct or reflected sunlight – even through windows – should also be avoided. Uncovered hose should not be stored under fluorescent or mercury lamps which generate light waves harmful to rubber.

Storage areas should be relatively cool and dark, and free of dampness and mildew. Items should be stored on a first-in, first-out basis, since even under the best of conditions, an unusually long shelf life could deteriorate certain rubber products.

SHELF LIFE

- Regardless of storage conditions, all bulk hose that has been stored for over 4 years should be tested and re-qualified before use. Any hose that exceeds 8 years of storage should be scrapped.





HANDLING AND MAINTENANCE TIPS

Proper hose handling ensures and maintains a safe working environment. Careless handling and maintenance increases the chances for failures and/or injury.

Never exceed the rated working pressure of a hose assembly.

- Never allow pressure spikes or surges above the maximum rated working pressure of the hose assembly.
- Excessive pressure can shorten the life of the assembly.
- Remember, the lowest rated component in an assembly is the maximum working pressure of that assembly.

Never run over a hose with equipment or vehicles, such as forklifts.

- Running over a hose can damage the tube, reinforcement and cover. It can create a dangerous buildup of pressure that can damage the assembly and equipment.

Never pull a hose by its coupling.

- Pulling a hose at the coupling can weaken the coupling to hose interface.

Never lift a heavy, large-diameter hose assembly from the middle with the ends hanging down.

- The internal reinforcement can be damaged at the support point.
- Support large hose assemblies every ten feet with rope saddles or slings.
- When moving assemblies, always lift the hose and coupling together.
- Use dollies, rollers or derricks when moving large hose assemblies.

Never over-bend a hose to the point of kinking.

- Never bend the hose tighter than the recommended minimum bend radius.
- Kinking a hose can seriously damage the tube and reinforcement.
- If needed, install bend restrictors at the coupling to prevent the hose from being bent past the minimum bend radius.

A hose cover exposed to excessive wear can be protected with a specialized cover or abrasion resistant sleeving.

- For example, Gates MegaTuff™ can increase abrasion resistance 300x longer than standard rubber-covered hoses.

Remove kinked or crushed hose from service immediately for inspection.

- Inspect and test the hose assembly before putting it back into service. See [“Hose Assembly Inspections”](#).
- An outside diameter of a hose which has been permanently reduced by more than 20 percent should be removed from service.
- An outside diameter of a hose which has been reduced by 20 percent or less should have a hydrostatic test done before being put back into service. See [“ARPM Hydrostatic Testing Procedures”](#).

Remove and test any hose assembly that has been severely abused or excessively abused.

- This includes hose that has been pulled at the coupling, crushed, kinked, cut, abraded, or exposed to temperatures or pressures above stated maximums.

Visually inspect and pressure test hose at regular intervals.

- This is extremely important for critical application hoses, such as acid/ chemical, steam, LPG and petroleum.
- Check for kinks, bulges, soft spots, loose areas, abrasions and cuts.
- Cuts or abrasions which expose the reinforcement are signs that the hose should be immediately removed from service.

Always check for fluid seepage by visually inspecting the hose assembly at the base of the coupling.

- Check for coupling slippage and seepage when hose is disconnected from the system.
- Remove any hose assembly that does not pass your visual inspection.



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STATIC ELECTRICITY

GROUNDING

WHAT IS A STATIC BOND?

Bonding connects two or more pieces of conductive equipment using wires or other conductors in order to equalize their static charge. Sparks cannot occur between objects that are at the same electrostatic potential.

STATIC ELECTRICITY GROUNDING IMPORTANCE:

Movement of some material through a hose assembly can generate enough static electricity to be hazardous. Not only could a static spark ignite a fire or cause an explosion, but enough charge could build up in the hose to cause a severe shock if contacted.

GROUNDING CAN BE ACHIEVED USING DIFFERENT METHODS:

MATERIAL COMPOUNDS SUCH AS USING STATIC CONDUCTIVE TUBE AND COVER STOCK.

BENT WIRE METHOD

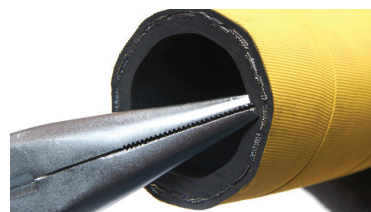
1. Use with a hose that is wire-reinforced or a hose that has a metal conductor within the hose.
2. Locate the helix wire or the static wire.
3. Pull the wire out with pliers.
4. Bend the wire into the inner surface of the hose tube.
5. Use the ohmmeter to check the electrical continuity on the helical wire prior to inserting the coupling. This will ensure that there is not a break in the wire.
6. Use caution not to puncture the tube.
7. Attach the couplings so the bent wire and the coupling make contact. (The bent wire must not extend the full length of the stem, since it could create a leak at the coupling.)
8. Place the assembly on a non-conductive surface and check it for electrical continuity with an ohmmeter that measures electrical resistance. (The maximum allowable resistance is 20 thousand ohms per foot of hose.)
9. Record all test data on a hose inspection card and file it with maintenance records.



Helix wire being bent into the inner surface of the hose tube.



Hose assembly being tested with ohmmeter.



Close-up of hose end showing wire braid in hose.



STATIC ELECTRICITY GROUNDING - CONTINUED

METAL STAPLE METHOD

Use with a hose that has a carbon fiber static conductor or wire reinforcement where the staple can be inserted easily against a static-conducting member.

1. Cut the hose end square to the desired length.
2. Locate the static wire, wire braid or carbon fibers.
3. Place one leg of an aluminum, copper or stainless steel staple into the wire reinforcement or carbon fiber. (For acid/chemical hoses, use only stainless steel staples.)
4. Place the other leg of the staple inside the tube, making sure the staple straddles the tube wall and is snug against the end cut.
5. Pinch the staple with pliers to force the leg against the inner surface of the tube wall.
6. Clean the staple and coupling shank ends with an emery cloth or steel wool.
7. Attach the coupling so the staple and coupling make contact.
8. Place the assembly on a non-conductive surface and check it for electrical continuity with an ohmmeter that measures electrical resistance. (The maximum allowable resistance is 20 thousand ohms per foot of hose.)
9. Record all test data on a hose inspection card and file it with maintenance records.



Placing the staple.



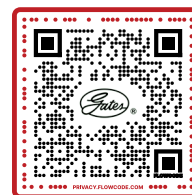
Pinching the staple into the tube wall.

EXPERT ADVICE



CAUTION

- When electrical continuity is required, ground the wire braid in the hose to couplings with aluminum, copper or stainless steel staples.



Static Grounding

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Ag Master™ Spray

Formerly - Thermo AG™ 800



RECOMMENDED FOR: Spraying lawns, trees and similar applications with diluted solutions of water and oil-based pesticides and herbicides.

CAUTION: For pesticides or herbicides containing more than 2% Toluene or Xylene, use Gates Chem Master™ Paint Spray. Maximum temperature dependent on pesticide, herbicide or chemicals conveyed. For temperatures above +120°F (+49°C), contact Denver Product Application (303) 744-5070.

TEMPERATURE: -10°F to +130°F (-23°C to +55°C).

CONSTRUCTION:
Tube: PVC - Type G; Ag Chemicals, Diluted Resistant. [See characteristics table.](#)
Reinforcement: Synthetic textile.
Cover: PVC - Type G; Striated. [See characteristics table.](#)
Design Factor: 3:1

COUPLINGS: 8 Tri-Lokt (Multiple clamps required); 14 Interlocking, Ground Joint (Multiple clamps required); 15 Interlocking, Washer Joint (Multiple clamps required); 21 Preformed Band Clamps (Multiple clamps required); 48 Band-It Nipples; Power Crimp™ Couplings; GLX™ Couplings [G44 Series]; Stainless Steel Braid Couplings [G17 Series] (for 800 psi only). [Reference the Industrial Hose Coupling Selection Overview.](#)

800 psi Working Pressure

	Hose I.D.		Hose O.D.		Max. W.P.*		Vac.*	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Green	3/8	9.5	0.69	17.5	800	55.2	25	4	.14	300	PLT	T	6AG8000	4465-1361
Green	3/8	9.5	0.69	17.5	800	55.2	25	4	.14	400	PLT	T	6AG8001	4465-1362
Green	1/2	12.7	0.84	21.3	800	55.2	25	5	.18	300	PLT	T	8AG8000	4465-1371
Green	1/2	12.7	0.84	21.3	800	55.2	25	5	.18	400	PLT	T	8AG8001	4465-1372
Green	3/4	19.1	1.14	29.0	800	55.2	25	6	.30	300	PLT	T	12AG8000	4465-1381
Green	3/4	19.1	1.14	29.0	800	55.2	25	6	.30	400	PLT	T	12AG8001	4465-1382

NOTE: * Working Pressure and Vacuum at +72°F (+22°C).

600 psi Working Pressure

	Hose I.D.		Hose O.D.		Max. W.P.*		Vac.*	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Yellow	3/8	9.5	0.67	17.0	600	41.4	25	4	.12	300	PLT	T	6AG6000	4465-1701
Yellow	3/8	9.5	0.67	17.0	600	41.4	25	4	.12	400	PLT	T	6AG6001	4465-1702
Yellow	1/2	12.7	0.81	20.6	600	41.4	25	5	.17	300	PLT	T	8AG6000	4465-1704
Yellow	1/2	12.7	0.81	20.6	600	41.4	25	5	.17	400	PLT	T	8AG6001	4465-1705
Yellow	3/4	19.1	1.08	27.4	600	41.4	25	6	.27	300	PLT	T	12AG6000	4465-1706

NOTE: * Working Pressure and Vacuum at +72°F (+22°C).

**Ag Master™ (200 - 250) Hose**

Formerly - Adapta Flex™ (Ag)



RECOMMENDED FOR: Agricultural spraying applications, such as dilute solutions of herbicides and fertilizers. Can also be used for air and water applications requiring maximum flexibility in the agriculture industry. Outstanding resistance to heat and ozone.

TEMPERATURE: -40°F to +200°F (-40°C to +93°C) continuous service.

CONSTRUCTION: **Tube:** EPDM - Type P; Ag Chemicals, Diluted Resistant; Black. [See characteristics table.](#)
Reinforcement: Synthetic textile.
Cover: EPDM - Type P; Heat, Oil, Ozone Resistant; Perforated; Black. [See characteristics table.](#)
Design Factor: 3:1

COUPLINGS: 19 Standard Air Hose (Up through 1/2" only); 1 Long Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); 3 Cast Brass or Zinc Short Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); 4 Machined Brass Short Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); GLX™ Couplings [G44 Series].
[Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: **Tube:** ARPM Class C (Limited Oil Resistance)
Cover: ARPM Class C (Limited Oil Resistance)

250 psi Working Pressure

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1 1/4	31.8	1.73	43.9	250	17.2	30	10	.68	300	REEL	XX	20AG1000	3204-1085
Black	1 1/2	38.1	1.98	50.3	250	17.2	30	12	.79	250	REEL	XX	24AG1000	3204-1086

NOTE: Pressure ratings can only be obtained with proper coupling procedures.

200 psi Working Pressure

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1/4	6.4	0.50	12.7	200	13.8	30	3	.09	600	REEL	J	4AG1000	3204-1079
Black	3/8	9.5	0.66	16.8	200	13.8	30	3	.15	600	REEL	J	6AG1000	3204-1080
Black	1/2	12.7	0.81	20.6	200	13.8	30	5	.19	600	REEL	J	8AG1000	3204-1081
Black	5/8	15.9	0.97	24.6	200	13.8	30	6	.26	600	REEL	J	10AG1000	3204-1082
Black	3/4	19.1	1.15	29.2	200	13.8	30	6	.32	600	REEL	J	12AG1000	3204-1083
Black	1	25.4	1.40	35.6	200	13.8	30	8	.44	350	REEL	XX	16AG1000	3204-1084

NOTE: Pressure ratings can only be obtained with proper coupling procedures.

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PROPER HOSE SELECTION

HOSE FINDER

Ag Master™ Solution Hose 150SD

Formerly - Barracuda™ (Ag)



RECOMMENDED FOR: Medium to light-duty water suction/discharge for agricultural, construction and industrial applications. The EPDM tube is specially compounded to handle mild chemicals and a variety of solutions including Lasso*, Lasso II* and Freedom*.
(*Registered Trademarks of Monsanto)

TEMPERATURE: -40°F to +180°F (-40°C to +82°C).

CONSTRUCTION: **Tube:** EPDM - Type P; Ag Chemicals, Diluted Resistant; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: EPDM - Type P; Ag Chemicals, Diluted Resistant; Black with green stripe. [See characteristics table.](#)
Design Factor: 3:1

COUPLINGS: 5 Brass Pin Lug; 6 Malleable Iron Pin Lug; 7 Combination Nipple; 8 Tri-Lokt; 49 Industrial Quick-Connecting; 78 Crimp Sleeves. [Reference the Industrial Hose Coupling Selection Overview.](#)

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length				
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	1 1/2	38.1	1.86	47.2	150	10.3	30	6	.60	100	PLT	T	24AG1500	4686-0069
Black	2	50.8	2.36	59.9	150	10.3	30	8	.79	100	PLT	T	32AG1500	4686-0071
Black	3	76.2	3.54	89.9	150	10.3	30	14	1.82	100	PLT	T	48AG1500	4686-0072
Black	4	101.6	4.54	115.3	150	10.3	30	18	2.55	100	PLT	T	64AG1500	4686-0073

**Ag Master™ PVC XTreme™ Hose (90-100) SD**

RECOMMENDED FOR: Heavy-duty suction and discharge of liquids in the construction, rental, and agricultural industries. Excellent for agricultural chemicals, liquid fertilizers, and dewatering. Rated for both suction and discharge.

TEMPERATURE: -40°F to +140°F (-40°C to +66°C) continuous service.

CONSTRUCTION: **Tube:** EPDM - Type P; Ag Chemicals, Diluted Resistant; Polyethylene helix; Black. [See characteristics table.](#)

Reinforcement: Braided, synthetic textile, rigid thermoplastic helix.

Cover: EPDM - Type P; Ag Chemicals, Diluted Resistant; Polyethylene helix; Black. [See characteristics table.](#)

Design Factor: 3:1

COUPLINGS: 1 Long Shank; 6 Malleable Iron Pin Lug; 7 Combination Nipple; 49 Industrial Quick-Connecting; 78 Crimp Sleeves. [Reference the Industrial Hose Coupling Selection Overview.](#)

Color	Hose I.D.		Hose O.D.		Max. W.P.*		Vac.*	MBR	Wt. Per	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1 1/4	31.8	1.75	44.5	100	6.9	30	3	.45	100	PLT	T	20AG2300	7744-1500
Black	1 1/2	38.1	1.97	50.0	100	6.9	30	3	.50	100	PLT	T	24AG2300	7744-1501
Black	2	50.8	2.54	64.5	100	6.9	30	5	.73	100	PLT	T	32AG2300	7744-1502
Black	3	76.2	3.64	92.5	90	6.2	30	7	1.25	100	PLT	T	48AG2300	7744-1503

NOTE: * Working Pressure and Vacuum at +72°F (+22°C).

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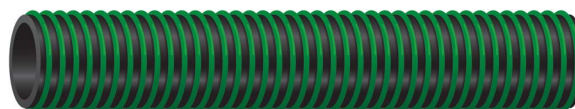
CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

HOSE FINDER

Ag Master™ PVC Solution Hose (35-80) SD

Formerly - Master-Flex™ 300 EPDM



RECOMMENDED FOR: Suction and discharge applications where lightweight, flexible hose is needed for transferring mild diluted chemicals and agricultural spray and fertilizer applications.

TEMPERATURE: -30°F to +140°F (-34°C to +60°C) continuous service.

CONSTRUCTION: **Tube:** EPDM - Type P; Ag Chemicals, Diluted Resistant; Black. [See characteristics table.](#)

Reinforcement: Rigid thermoplastic helix.

Cover: PVC - Type G; Ag Chemicals, Diluted Resistant; Rigid PVC helix, Corrugated; Black with green helix. [See characteristics table.](#)

Design Factor: 3:1

COUPLINGS: 1 Long Shank; 6 Malleable Iron Pin Lug; 7 Combination Nipple; 49 Industrial Quick-Connecting; 78 Crimp Sleeves. [Reference the Industrial Hose Coupling Selection Overview.](#)

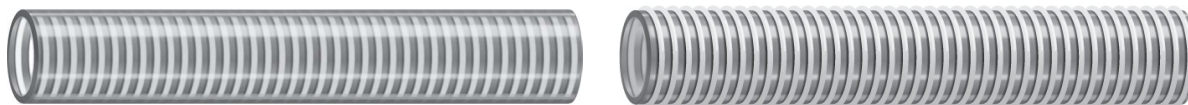
STANDARDS: **Tube:** ARPM Class B (Medium Oil Resistance)

Color	Hose I.D.	⊖	Hose O.D.	⊖	Max. W.P.*	⊖	Vac.*	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1	25.4	1.34	34.0	80	5.5	28	4	.23	100	PLT	T	16AG2100	7744-5201
Black	1 1/4	31.8	1.61	40.9	70	4.8	28	5	.30	100	PLT	T	20AG2100	7744-5202
Black	1 1/2	38.1	1.96	49.8	60	4.1	28	6	.49	100	PLT	T	24AG2100	7744-5203
Black	2	50.8	2.49	63.2	60	4.1	28	9	.69	100	PLT	T	32AG2100	7744-5204
Black	2 1/2	63.5	3.00	76.2	50	3.4	28	11	.91	100	PLT	T	40AG2100	7744-5205
Black	6	152.4	6.86	174.2	35	2.4	28	27	3.10	100	PLT	T	96AG2100	7744-5208

NOTE: * Working Pressure and Vacuum at +72°F (+22°C).

**Ag Master™ PVC Solution Hose (30-90) SD Clear**

Formerly - Master-Flex™ 101CL

**RECOMMENDED FOR:** Conveying water and light chemical solutions where a clear PVC hose with a white helix is desirable for heavy-duty applications.**TEMPERATURE:** -10°F to +130°F (-23°C to +55°C) continuous service.**CONSTRUCTION:**
Tube: PVC - Type G; Ag Chemicals, Diluted Resistant; Clear. [See characteristics table.](#)
Reinforcement: Rigid thermoplastic helix.
Cover: PVC - Type G; Ag Chemicals, Diluted Resistant; Corrugated or smooth; Clear. [See characteristics table.](#)
Design Factor: 3:1**COUPLINGS:** 1 Long Shank; 6 Malleable Iron Pin Lug; 7 Combination Nipple; 49 Industrial Quick-Connecting; 78 Crimp Sleeves.
[Reference the Industrial Hose Coupling Selection Overview.](#)**Smooth Cover**

Color	Hose I.D. (in)	Hose I.D. (mm)	Hose O.D. (in)	Hose O.D. (mm)	Max. W.P.* (psi)	Max. W.P.* (Bar)	Vac.* (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Clear	1	25.4	1.27	32.3	90	6.2	28	3	.27	100	PLT	T	16AG2000	7744-2101
Clear	1 1/2	38.1	1.82	46.2	90	6.2	28	5	.47	100	PLT	T	24AG2000	7744-2103
Clear	2	50.8	2.36	59.9	70	4.8	28	6	.66	100	PLT	T	32AG2000	7744-2104
Clear	2 1/2	63.5	2.90	73.7	65	4.5	28	8	.95	100	PLT	T	40AG2000	7744-2105
Clear	3	76.2	3.44	87.4	55	3.8	28	9	1.25	100	PLT	T	48AG2000	7744-2106
Clear	4	101.6	4.52	114.8	50	3.4	28	13	1.94	100	PLT	T	64AG2000	7744-2107
Clear	5	127.0	5.65	143.5	45	3.1	28	21	3.09	100	PLT	T	80AG2000	7744-2108
Clear	6	152.4	6.80	172.7	45	3.1	28	24	4.56	100	PLT	T	96AG2001	7744-2109

NOTE: * Working Pressure and Vacuum at +72°F (+22°C).

Corrugated Cover

Color	Hose I.D. (in)	Hose I.D. (mm)	Hose O.D. (in)	Hose O.D. (mm)	Max. W.P.* (psi)	Max. W.P.* (Bar)	Vac.* (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Clear	1 1/4	31.8	1.61	40.9	50	3.4	28	3	.31	100	PLT	T	20AG2000	7744-0015
Clear	3	76.2	3.54	89.9	35	2.4	28	6	1.04	100	PLT	T	48AG2001	7744-0011
Clear	6	152.4	6.98	177.3	35	2.4	28	15	4.08	100	PLT	T	96AG2000	7744-0014

NOTE: * Working Pressure and Vacuum at +72°F (+22°C).

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PROPER HOSE SELECTION

HOSE FINDER

Air Master™ Diving Umbilical Hose (1000-1125)

Formerly - 33HB



RECOMMENDED FOR: Handling mixtures of oxygen, helium, and nitrogen gases customarily used in diving applications as air breathing hose. For surface supplied air systems involved in recreational, salvage, oil rig service and control lines.

TEMPERATURE: -20°F to +120°F (-40°C to +49°C) continuous service.

CONSTRUCTION: **Tube:** Nitrile - Type C; Cleaned for breathing air; Black. [See characteristics table.](#)
Reinforcement: Braided, synthetic textile.
Cover: Chloroprene (Neoprene) - Type A; Perforated; Black. [See characteristics table.](#)
Design Factor: 8:1

COUPLINGS: Corrosion-resistant (Supplied, applied by diving contractor). [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Meets BS EN250:2014. Cleanliness: Length of hose is rinsed with water for 30 seconds to 1 minute, followed by a sponge plug blown through hose to remove water. A second alcohol-soaked sponge is then blown through hose, followed by air for 30 seconds.

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length				
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(in. Hg)	(in)	(Lbs.)	(ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	3/8	9.5	0.75	19.1	500	34.5	30	4	.19	699	REEL	T	6AM1001	3333-0015
Black	3/8	9.5	0.75	19.1	500	34.5	30	4	.19	1000	REEL	T	6AM1000	3333-0017
Black	1/2	12.7	0.94	23.9	500	34.5	30	5	.29	299	REEL	T	8AM1002	3333-0038
Black	1/2	12.7	0.94	23.9	500	34.5	30	5	.29	1000	REEL	T	8AM1001	3333-0052
Black	1/2	12.7	0.94	23.9	500	34.5	30	5	.29	1000	REEL	T	8AM1000	3333-0035

NOTE: Working pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures.



Air Master™ SCUBA 500 Hose



RECOMMENDED FOR: Handling mixtures of oxygen, helium, and nitrogen gases customarily used in diving applications as air breathing hose. The kink-resistant hose is designed for extra-long wear under normal operating use. For use in SCUBA applications involving regulated supply of air to breathing mask, buoyancy compensator, and other diving accessories. Used in recreational, salvage, and oil rig service diving applications.

TEMPERATURE: -20°F to +120°F (-40°C to +49°C) continuous service.

CONSTRUCTION: **Tube:** Nitrile - Type C; Cleaned for breathing air; Black. [See characteristics table.](#)
Reinforcement: Braided, synthetic textile.
Cover: Chloroprene (Neoprene) - Type A; Perforated; Black with orange stripe.
 Modified Nitrile - Type C2; Perforated; Yellow with orange stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: Corrosion-resistant (Supplied, applied by diving contractor). [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Meets BS EN250:2014. Cleanliness: Length of hose is rinsed with water for 30 seconds to 1 minute, followed by a sponge plug blown through hose to remove water. A second alcohol-soaked sponge is then blown through hose, followed by air for 30 seconds.

Color	Hose I.D. (in)	Hose O.D. (mm)	Hose I.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	1/4	6.4	0.51	13.0	500	34.5	3	.09	550	REEL	J	4AM6000	4218-1002
Black	5/16	7.9	0.56	14.2	500	34.5	3	.10	550	REEL	CC	5AM6000	4218-0004
Yellow	1/4	6.4	0.51	13.0	500	34.5	3	.09	550	REEL	CC	4AM6001	4218-0009
Yellow	5/16	7.9	0.56	14.2	500	34.5	3	.01	550	REEL	CC	5AM6001	4218-0010

NOTE: Working pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures.

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PROPER HOSE SELECTION

HOSE FINDER

Air Master™ Respirator 500 Hose



RECOMMENDED FOR: Handling mixtures of oxygen, helium and nitrogen gases, customarily used in applications as air breathing hose. The kink-resistant hose is designed for extra-long wear under normal operating use. For applications involving SCBA such as firefighting, barrier suits, mining.

TEMPERATURE: -20°F to +120°F (-40°C to +49°C) continuous service.

CONSTRUCTION: **Tube:** Nitrile - Type C; Cleaned for breathing air; Black. [See characteristics table.](#)
Reinforcement: Braided, synthetic textile.
Cover: Chloroprene (Neoprene) - Type A; Perforated; Black. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: GLX™ Couplings [G44 Series]. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: NIOSH Air Supply Line – System Certification only. No hose specific requirement, NFPA 1901/1981.

	Hose I.D.		Hose O.D.		Max. W.P.		MBR	Wt. Per ea	Length				
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(in)	(Lbs.)	(ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	1/4	6.4	0.51	13.0	500	34.5	3	.13	600	REEL	UU	4AM5000	3232-1001



Air Duct Hose SD

Formerly - 63SB, 163SB



RECOMMENDED FOR: Heating and ventilating applications, such as air intake for butane conversion units, air and heater ducts, defroster lines, air cleaner connections to carburetor, exhaust ducts, vent lines for trailer sewers and drains. For standard- and heavy-duty applications.

CAUTION: Not recommended for conveying liquids.

TEMPERATURE: -30°F to +250°F (-34°C to +121°C) continuous service.

CONSTRUCTION: **Tube:** Chloroprene (Neoprene) - Type A; Oil Resistant; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: Chloroprene (Neoprene) - Type A (impregnated fabric); Heat, Oil Resistant; Corrugated; Black with red stripe. [See characteristics table.](#)
Design Factor: 4:1

15-20 psi Working Pressure

Color	Hose I.D. (in)	Hose I.D. (mm)	Hose O.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	3/4	19.1	1.00	25.4	20	1.4	15	1	.20	10	CTN	T	12EH7000	4663-1516
Black	1	25.4	1.25	31.8	20	1.4	15	1	.26	10	CTN	T	16EH7001	4663-1518
Black	1 1/4	31.8	1.50	38.1	20	1.4	15	1	.34	10	CTN	T	20EH7000	4663-1530
Black	1 3/8	34.9	1.62	41.1	15	1.0	15	2	.44	10	CTN	T	22EH7000	4663-3321
Black	1 1/2	38.1	1.75	44.5	15	1.0	15	2	.48	10	CTN	T	24EH7000	4663-1540
Black	1 7/8	47.6	2.12	53.8	15	1.0	15	2	.58	10	CTN	T	30EH7000	4663-1548

10 psi Working Pressure

Color	Hose I.D. (in)	Hose I.D. (mm)	Hose O.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	7/8	22.2	1.06	26.9	10	0.7	5	1	.26	10	CTN	T	14EH7000	4663-4110
Black	1	25.4	1.19	30.2	10	0.7	5	1	.28	10	CTN	T	16EH7000	4663-4111
Black	2 1/8	54.0	2.31	58.7	10	0.7	15	3	.63	10	CTN	T	34EH7000	4663-3461
Black	2 1/4	57.2	2.50	63.5	10	0.7	15	3	.67	10	CTN	T	36EH7000	4663-1556
Black	3 1/8	79.4	3.38	85.9	10	0.7	7	10	.92	10	CTN	T	50EH7000	4663-1569
Black	4 1/2	114.3	4.75	120.7	10	0.7	7	12	1.25	10	CTN	T	72EH7000	4663-1589

5-8 psi Working Pressure

Color	Hose I.D. (in)	Hose I.D. (mm)	Hose O.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	2	50.8	2.19	55.9	5	0.3	3	2	.55	10	CTN	T	32EH7000	4663-4118

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PROPER HOSE SELECTION

HOSE FINDER

Plant Master™ XTreme™ 325 Braid Hose

Formerly - 19B, 119B



RECOMMENDED FOR: Applications requiring a premium grade braided hose, with excellent flexibility and maximum resistance to air, water, petroleum oils, gasoline, kerosene and fuel oil (to +120°F) and lubricating oils (to +212°F).

CAUTION: Not recommended for constant contact with fuels. Not recommended for Bio-Diesel fuels.

TEMPERATURE: -40°F to +212°F (-40°C to +100°C) continuous service.

CONSTRUCTION: **Tube:** Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Braided, synthetic textile.
Cover: Chloroprene (Neoprene) - Type A; Oil, Ozone, Weather Resistant; Black.
 Modified Nitrile - Type C2; Oil, Ozone, Weather Resistant; Red. [See characteristics table.](#)

Design Factor: 4:1

COUPLINGS: 19 Standard Air Hose (Up through 1/2" only); 1 Long Shank; 3 Cast Brass or Zinc Short Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); 4 Machined Brass Short Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); 14 Interlocking, Ground Joint; 15 Interlocking, Washer Joint; Power Crimp™ Couplings; GLX™ Couplings [G44 Series]. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: **Tube:** ARPM Class A (High Oil Resistance)
Cover: ARPM Class B (Medium Oil Resistance)

	Hose I.D.	⊖	Hose O.D.	⊗	Max. W.P.	⊗	Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1/4	6.4	0.50	12.7	325	22.4	30	3	.09	625	REEL	BB	4PM3701	3219-2930
Black	5/16	7.9	0.62	15.7	325	22.4	30	3	.13	625	REEL	BB	5PM3700	3219-2932
Black	3/8	9.5	0.69	17.5	325	22.4	30	3	.15	625	REEL	BB	6PM3701	3219-2933
Black	1/2	12.7	0.84	21.3	325	22.4	25	5	.23	625	REEL	BB	8PM3703	3219-2935
Black	5/8	15.9	0.94	23.9	325	22.4	20	6	.24	525	REEL	BB	10PM3700	3219-2937
Black	3/4	19.1	1.09	27.7	325	22.4	20	6	.29	525	REEL	BB	12PM3701	3219-2938
Black	1	25.4	1.38	35.1	325	22.4	10	8	.46	525	REEL	BB	16PM3701	3219-2940
Red	1/4	6.4	0.50	12.7	325	22.4	30	3	.09	625	REEL	BB	4PM3702	3219-2902
Red	5/16	7.9	0.62	15.7	325	22.4	30	3	.13	625	REEL	BB	5PM3701	3219-2904
Red	3/8	9.5	0.69	17.5	325	22.4	30	3	.15	625	REEL	BB	6PM3702	3219-2906
Red	1/2	12.7	0.84	21.3	325	22.4	25	5	.20	625	REEL	BB	8PM3701	3219-2908
Red	5/8	15.9	0.94	23.9	325	22.4	20	6	.24	525	REEL	BB	10PM3701	3219-2910
Red	3/4	19.1	1.09	27.7	325	22.4	20	6	.29	525	REEL	BB	12PM3702	3219-2912
Red	1	25.4	1.38	35.1	325	22.4	10	8	.41	525	REEL	BB	16PM3702	3219-2914

**Plant Master™ XTreme™ 501 AR Hose**

Formerly - Terminator™



RECOMMENDED FOR: Applications requiring a premium-quality, multi-purpose hose with superior abrasion resistance for air, oil and some chemical applications. Excellent durability for extra-long life in these applications: mining, air drill, construction, poultry plants and other severe service. Good weather and ozone resistance.

CAUTION: Due to 501 AR PSI working pressure, care should be taken to properly select couplings to match. Hose assembly working pressure is the working pressure of the lowest rated component.

TEMPERATURE: -40°F to +212°F (-40°C to +100°C) continuous service.

CONSTRUCTION: **Tube:** Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Synthetic, textile (Up thru 1 1/4"); Multiple plies, synthetic textile (1 1/2" to 2").
Cover: Carboxylated Nitrile - Type C4; Oil, Ozone, Weather Resistant. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 19 Standard Air Hose (Up through 1/2" only); 1 Long Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); 3 Cast Brass or Zinc Short Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); 4 Machined Brass Short Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); 15 Interlocking, Washer Joint; 71 Permanent Swaged or Crimped; Power Crimp™ Couplings; 73 Permanent Swaged or Crimped (Up to 250 psi); MegaCrimp™ Couplings [G25 Series]; GLX™ Couplings [G44 Series]; 80 Gates GSP™ (for 1 1/2" or 2" only). [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: All sizes except 1 1/2" and 2" are non-conductive (>1 Megohm/in.).
 Storage and use may adversely affect electrical resistance.
 Meets MSHA Flame-resistant.

Tube: ARPM Class A (High Oil Resistance)
Cover: ARPM Class A (High Oil Resistance)

Color	Hose I.D. (in)	Hose I.D. (mm)	Hose O.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	3/4	19.1	1.22	31.0	501	34.5	15	6	.49	500	REEL	XX	12PM3703	3202-0017
Yellow	1/4	6.4	0.57	14.5	501	34.5	30	3	.15	500	REEL	XX	4PM3700	3202-0001
Yellow	1/4	6.4	0.57	14.5	501	34.5	30	3	.12	500	REEL	T	4PM3710	3202-0301
Yellow	3/8	9.5	0.75	19.1	501	34.5	25	3	.19	500	REEL	XX	6PM3700	3202-0006
Yellow	3/8	9.5	0.75	19.1	501	34.5	25	3	.20	500	REEL	T	6PM3710	3202-0306
Yellow	1/2	12.7	0.89	22.6	501	34.5	25	5	.25	500	REEL	XX	8PM3700	3202-0011
Yellow	1/2	12.7	0.89	22.6	501	34.5	25	5	.27	500	REEL	T	8PM3710	3202-0311
Yellow	3/4	19.1	1.22	31.0	501	34.5	15	6	.45	500	REEL	XX	12PM3704	3202-0016
Yellow	3/4	19.1	1.22	31.0	501	34.5	15	6	.45	500	REEL	T	12PM3710	3202-0316
Yellow	1	25.4	1.51	38.4	501	34.5	10	8	.57	400	REEL	XX	16PM3700	3202-0021
Yellow	1 1/4	31.8	1.78	45.2	501	34.5	10	10	.73	300	REEL	XX	20PM3700	3202-0027
Yellow	1 1/2	38.1	2.09	53.1	501	34.5	10	12	.96	100	PLT	T	24PM3700	3202-0029
Yellow	1 1/2	38.1	2.09	53.1	501	34.5	10	12	.96	200	PLT	T	24PM3701	3202-0317
Yellow	2	50.8	2.64	67.1	501	34.5	10	14	1.35	100	PLT	T	32PM3700	3202-0032

NOTE: Pkg Code T=One piece continuous length reel. Pkg Code XX=One or two piece reel, 50 ft increments, no length less than 50 ft.

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PROPER HOSE SELECTION

HOSE FINDER

Plant Master™ XTreme™ 300 Lock-On Braid Hose

Formerly - LOL



- RECOMMENDED FOR:** Petroleum-based hydraulic oils, water, glycol anti-freeze solutions, hot lubricating oils, and air.
- CAUTION:** Hose and couplings are not recommended for pressure surge applications or critical applications, such as permanent piping in residential or commercial buildings. Not recommended for gasoline or diesel fuels.
- TEMPERATURE:** -40°F to +212°F (-40°C to +100°C) normal service. For air: +160°F (+71°C) only. For water emulsion, see Gates Hydraulic Hose Catalog.
- CONSTRUCTION:**
Tube: Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Braided, synthetic textile.
Cover: Modified Nitrile - Type C2; Medium Oil Resistance. [See characteristics table.](#)
Design Factor: 4:1
- COUPLINGS:** GLX™ Couplings [G44 Series]; Field Attachable LOC Couplings [G36 Series] (Do not use clamps with Lock-On fittings). [Reference the Industrial Hose Coupling Selection Overview.](#)
- STANDARDS:** Black cover only meets MSHA Flame-resistant.
Tube: ARPM Class A (High Oil Resistance)
Cover: ARPM Class B (Medium Oil Resistance)

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1/4	6.4	0.47	11.9	300	20.7	28	3	.09	300	REEL	M	4PM3060	3201-1100
Black	3/8	9.5	0.63	16.0	300	20.7	28	3	.11	300	REEL	M	6PM3060	3201-1101
Black	1/2	12.7	0.77	19.6	300	20.7	28	5	.15	300	REEL	M	8PM3060	3201-1102
Black	5/8	15.9	0.94	23.9	300	20.7	28	6	.20	250	REEL	M	10PM3060	3201-1103
Black	3/4	19.1	1.06	26.9	300	20.7	15	7	.24	225	REEL	M	12PM3060	3201-1104
Blue	1/4	6.4	0.47	11.9	300	20.7	28	3	.09	300	REEL	M	4PM3061	3201-1105
Blue	3/8	9.5	0.63	16.0	300	20.7	28	3	.11	300	REEL	M	6PM3061	3201-1106
Blue	1/2	12.7	0.77	19.6	300	20.7	28	5	.15	300	REEL	M	8PM3061	3201-1107
Blue	5/8	15.9	0.94	23.9	300	20.7	28	6	.20	250	REEL	M	10PM3061	3201-1108
Blue	3/4	19.1	1.06	26.9	300	20.7	15	7	.24	225	REEL	M	12PM3061	3201-1109
Gray	1/4	6.4	0.47	11.9	300	20.7	28	3	.09	300	REEL	M	4PM3062	3201-1125
Gray	3/8	9.5	0.63	16.0	300	20.7	28	3	.11	300	REEL	M	6PM3062	3201-1126
Gray	1/2	12.7	0.77	19.6	300	20.7	28	5	.15	300	REEL	M	8PM3062	3201-1127
Gray	5/8	15.9	0.94	23.9	300	20.7	28	6	.20	250	REEL	M	10PM3062	3201-1128
Gray	3/4	19.1	1.06	26.9	300	20.7	15	7	.24	225	REEL	M	12PM3062	3201-1129
Green	1/4	6.4	0.47	11.9	300	20.7	28	3	.09	300	REEL	M	4PM3063	3201-1120
Green	3/8	9.5	0.63	16.0	300	20.7	28	3	.11	300	REEL	M	6PM3063	3201-1121
Green	1/2	12.7	0.77	19.6	300	20.7	28	5	.15	300	REEL	M	8PM3063	3201-1122
Green	5/8	15.9	0.94	23.9	300	20.7	28	6	.20	250	REEL	M	10PM3063	3201-1123
Green	3/4	19.1	1.06	26.9	300	20.7	15	7	.24	225	REEL	M	12PM3063	3201-1124
Red	1/4	6.4	0.47	11.9	300	20.7	28	3	.09	300	REEL	M	4PM3064	3201-1110
Red	3/8	9.5	0.63	16.0	300	20.7	28	3	.11	300	REEL	M	6PM3064	3201-1111
Red	1/2	12.7	0.77	19.6	300	20.7	28	5	.15	300	REEL	M	8PM3064	3201-1112
Red	3/4	19.1	1.06	26.9	300	20.7	15	7	.24	225	REEL	M	12PM3064	3201-1114
Yellow	1/4	6.4	0.47	11.9	300	20.7	28	3	.09	300	REEL	M	4PM3065	3201-1115
Yellow	3/8	9.5	0.63	16.0	300	20.7	28	3	.11	300	REEL	M	6PM3065	3201-1116
Yellow	1/2	12.7	0.77	19.6	300	20.7	28	5	.15	300	REEL	M	8PM3065	3201-1117
Yellow	5/8	15.9	0.94	23.9	300	20.7	28	6	.20	250	REEL	M	10PM3064	3201-1118
Yellow	3/4	19.1	1.06	26.9	300	20.7	15	7	.24	225	REEL	M	12PM3065	3201-1119

**Plant Master™ XTreme™ Hose (250 - 315)**

Formerly - Premo Flex™



RECOMMENDED FOR: Applications requiring a premium grade spiral hose with excellent flexibility and maximum resistance to air, water, petroleum oils and lubricating oils, (to +212°F). Recommended for gasoline, kerosene and fuel oil transfer only (to +120°F). Excellent weather and ozone resistance.

TEMPERATURE: -40°F to +212°F (-40°C to +100°C) continuous service.

CONSTRUCTION: **Tube:** Nitrile - Type C; Black. [See characteristics table.](#)
Reinforcement: Synthetic textile.
Cover: Modified Nitrile - Type C2; Oil, Ozone, Weather Resistant. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 19 Standard Air Hose (Up through 1/2" only); 1 Long Shank; 3 Cast Brass or Zinc Short Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); 4 Machined Brass Short Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); 8 Tri-Lok; 14 Interlocking, Ground Joint; 15 Interlocking, Washer Joint; Power Crimp™ Couplings; GLX™ Couplings [G44 Series]. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Non-conductive (>1 Megohm/in.).
 Storage and use may adversely affect electrical resistance.
Tube: ARPM Class A (High Oil Resistance)
Cover: ARPM Class B (Medium Oil Resistance)

315 psi Working Pressure

Color	Hose I.D. (in)	Hose I.D. (mm)	Hose O.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Red	1/4	6.4	0.57	14.5	315	21.7	30	2	.12	500	REEL	XX	4PM3100	3205-0016
Red	1/4	6.4	0.57	14.5	315	21.7	30	2	.12	500	REEL	T	4PM3110	3205-0216
Red	5/16	7.9	0.67	17.0	315	21.7	30	2	.16	500	REEL	XX	5PM3100	3205-0021
Red	3/8	9.5	0.73	18.5	315	21.7	30	3	.18	50	BULK	T	6PM3100	3205-0524
Red	3/8	9.5	0.73	18.5	315	21.7	30	3	.18	500	REEL	XX	6PM3101	3205-0026
Red	3/8	9.5	0.73	18.5	315	21.7	30	3	.18	500	REEL	T	6PM3110	3205-0226
Red	1/2	12.7	0.88	22.4	315	21.7	25	4	.24	50	BULK	T	8PM3100	3205-0535
Red	1/2	12.7	0.88	22.4	315	21.7	25	4	.28	500	REEL	XX	8PM3101	3205-0031
Red	1/2	12.7	0.88	22.4	315	21.7	25	4	.24	500	REEL	T	8PM3110	3205-0231
Red	5/8	15.9	0.98	24.9	315	21.7	20	5	.30	500	REEL	XX	10PM3100	3205-0036
Red	5/8	15.9	0.98	24.9	315	21.7	20	5	.30	500	REEL	T	10PM3110	3205-0236
Red	3/4	19.1	1.19	30.2	315	21.7	20	5	.40	500	REEL	XX	12PM3100	3205-0041
Red	3/4	19.1	1.19	30.2	315	21.7	20	5	.39	500	REEL	T	12PM3110	3205-0241

NOTE: Pkg Code T=One piece continuous length reel. Pkg Code XX=One or two piece reel, 50 ft increments, no length less than 50 ft.

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PROPER HOSE SELECTION

HOSE FINDER

Plant Master™ XTreme™ Hose (250 - 315) (Continued)

Formerly - Premo Flex™

250 psi Working Pressure

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1/4	6.4	0.50	12.7	250	17.2	30	2	.09	600	REEL	XX	4PM3000	3205-0306
Black	3/4	19.1	1.15	29.2	250	17.2	30	5	.30	600	REEL	XX	12PM3000	3205-2938
Orange	1	25.4	1.47	37.3	250	17.2	10	8	.58	300	REEL	XX	16PM3000	3205-0047
Red	1/4	6.4	0.50	12.7	250	17.2	30	2	.09	500	REEL	XX	4PM3001	3205-0015
Red	1/4	6.4	0.50	12.7	250	17.2	30	2	.09	500	REEL	T	4PM3010	3205-0215
Red	5/16	7.9	0.56	14.2	250	17.2	30	2	.11	500	REEL	XX	5PM3000	3205-0020
Red	3/8	9.5	0.66	16.8	250	17.2	30	3	.17	500	REEL	XX	6PM3000	3205-0025
Red	3/8	9.5	0.66	16.8	250	17.2	30	3	.14	500	REEL	T	6PM3010	3205-0225
Red	1/2	12.7	0.85	21.6	250	17.2	25	4	.22	500	REEL	XX	8PM3000	3205-0030
Red	1/2	12.7	0.85	21.6	250	17.2	25	4	.24	500	REEL	T	8PM3010	3205-0230
Red	5/8	15.9	0.98	24.9	250	17.2	20	5	.27	500	REEL	XX	10PM3000	3205-0035
Red	5/8	15.9	0.98	24.9	250	17.2	20	5	.27	500	REEL	T	10PM3010	3205-0235
Red	3/4	19.1	1.15	29.2	250	17.2	20	5	.36	50	BULK	200	12PM3001	3205-5040
Red	3/4	19.1	1.15	29.2	250	17.2	20	5	.36	500	REEL	XX	12PM3002	3205-0040
Red	3/4	19.1	1.15	29.2	250	17.2	20	5	.41	500	REEL	T	12PM3010	3205-0240
Red	1	25.4	1.47	37.3	250	17.2	10	8	.54	400	REEL	XX	16PM3001	3205-0046
Red	1 1/4	31.8	1.75	44.5	250	17.2	10	10	.61	150	REEL	T	20PM3010	3205-0509
Red	1 1/4	31.8	1.75	44.5	250	17.2	10	10	.67	300	REEL	XX	20PM3000	3205-0049
Red	1 1/2	38.1	2.00	50.8	250	17.2	10	12	.85	200	REEL	XX	24PM3000	3205-0055

NOTE: Pkg Code T=One piece continuous length reel. Pkg Code XX=One or two piece reel, 50 ft increments, no length less than 50 ft.

**Plant Master™ XTreme™ 300 AR Hose**

Formerly - Premo Flex™ AR



RECOMMENDED FOR: Applications requiring a premium grade spiral hose with superior abrasion resistance, excellent flexibility and maximum resistance to air, water, petroleum oils and lubricating oils (to +212°F). Recommended for gasoline, kerosene, and fuel oil transfer only to +120°F. Good weather and ozone resistance.

TEMPERATURE: -40°F to +212°F (-40°C to +100°C) continuous service.

CONSTRUCTION: **Tube:** Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Synthetic textile.
Cover: Carboxylated Nitrile - Type C4; Oil, Ozone, Weather Resistant. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 19 Standard Air Hose (Up through 1/2" only); 1 Long Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); 3 Cast Brass or Zinc Short Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); 4 Machined Brass Short Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); 8 Tri-Lokt; 14 Interlocking, Ground Joint; 15 Interlocking, Washer Joint; MegaCrimp™ Couplings [G25 Series]; GLX™ Couplings [G44 Series]. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Non-conductive (>1 Megohm/in.).
 Storage and use may adversely affect electrical resistance.
 Meets MSHA Flame-resistant.
Tube: ARPM Class A (High Oil Resistance)
Cover: ARPM Class A (High Oil Resistance)

Color	Hose I.D. (in)	Hose I.D. (mm)	Hose O.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (in. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	1/4	6.4	0.53	13.5	300	20.7	30	2	.11	500	REEL	XX	4PM3500	3205-0503
Black	3/8	9.5	0.70	17.8	300	20.7	30	3	.16	500	REEL	XX	6PM3500	3205-0504
Black	1/2	12.7	0.84	21.3	300	20.7	25	4	.21	500	REEL	XX	8PM3500	3205-0505
Black	1	25.4	1.50	38.1	300	20.7	10	8	.59	400	REEL	XX	16PM3500	3205-0507
Red	1/4	6.4	0.53	13.5	300	20.7	30	2	.10	500	REEL	XX	4PM3501	3205-0401
Red	1/4	6.4	0.53	13.5	300	20.7	30	2	.10	500	REEL	T	4PM3510	3205-0406
Red	3/8	9.5	0.70	17.8	300	20.7	30	3	.16	500	REEL	XX	6PM3501	3205-0402
Red	3/8	9.5	0.70	17.8	300	20.7	30	3	.16	500	REEL	T	6PM3510	3205-0407
Red	1/2	12.7	0.84	21.3	300	20.7	25	4	.22	500	REEL	XX	8PM3501	3205-0403
Red	1/2	12.7	0.84	21.3	300	20.7	25	4	.22	500	REEL	T	8PM3510	3205-0408
Red	3/4	19.1	1.19	30.2	300	20.7	20	5	.47	500	REEL	XX	12PM3500	3205-0404
Red	3/4	19.1	1.19	30.2	300	20.7	20	5	.40	500	REEL	T	12PM3510	3205-0409
Red	3/4	19.1	1.19	30.2	300	20.7	20	5	.40	600	REEL	XX	12PM3501	3205-0501
Red	1	25.4	1.50	38.1	300	20.7	10	8	.59	400	REEL	XX	16PM3501	3205-0405

NOTE: Pkg Code T=One piece continuous length reel. Pkg Code XX=One or two piece reel, 50 ft increments, no length less than 50 ft.

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PROPER HOSE SELECTION

HOSE FINDER

Plant Master™ Plus 300 Lock-On Hose

Formerly - Python™ Plus



RECOMMENDED FOR: Air, water, oils, antifreeze solutions and applications where Lock-On fittings are used.

CAUTION: Hose is not recommended for applications where vibrations or pressure surges exist. Do not use oil for Lock-On fitting insertion purposes. Not recommended for gasoline or diesel fuels.

TEMPERATURE: -20°F to +212°F (-29°C to +100°C) normal service. For air: +160°F (+71°C) only. For water emulsion, see Gates Hydraulic Hose Catalog.

CONSTRUCTION: **Tube:** Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Synthetic textile.
Cover: Chloroprene (Neoprene) - Type A; Medium Oil Resistance; Black.
 Modified Nitrile - Type C2; Medium Oil Resistance; for all colors except black. [See characteristics table.](#)

Design Factor: 4:1

COUPLINGS: GLX™ Couplings [G44 Series]; Field Attachable LOC Couplings [G36 Series] (Do not use clamps with Lock-On fittings). [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Non-conductive (>1 Megohm/in.).
 Storage and use may adversely affect electrical resistance.
Tube: ARPM Class A (High Oil Resistance)
Cover: ARPM Class B (Medium Oil Resistance)

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1/4	6.4	0.54	13.7	300	20.7	30	3	.11	50	BULK	400	4PM4160	3222-0171
Black	1/4	6.4	0.54	13.7	300	20.7	30	3	.11	100	BULK	400	4PM4161	3222-0172
Black	1/4	6.4	0.54	13.7	300	20.7	30	3	.11	500	REEL	XX	4PM4162	3222-0183
Black	3/8	9.5	0.68	17.3	300	20.7	30	3	.16	50	BULK	400	6PM4161	3222-0173
Black	3/8	9.5	0.68	17.3	300	20.7	30	3	.15	100	BULK	400	6PM4162	3222-0174
Black	3/8	9.5	0.68	17.3	300	20.7	30	3	.15	500	REEL	XX	6PM4163	3222-0184
Black	1/2	12.7	0.81	20.6	300	20.7	30	5	.18	500	REEL	XX	8PM4160	3222-0185
Blue	1/4	6.4	0.54	13.7	300	20.7	30	3	.11	500	REEL	XX	4PM4163	3222-0143
Blue	3/8	9.5	0.68	17.3	300	20.7	30	3	.15	100	BULK	400	6PM4164	3222-0300
Blue	3/8	9.5	0.68	17.3	300	20.7	30	3	.15	500	REEL	XX	6PM4165	3222-0144
Blue	3/8	9.5	0.68	17.3	300	20.7	30	3	.14	500	REEL	T	6PM4160	3222-0606
Blue	1/2	12.7	0.81	20.6	300	20.7	30	5	.18	500	REEL	XX	8PM4161	3222-0145
Gray	3/8	9.5	0.68	17.3	300	20.7	30	3	.15	500	REEL	XX	6PM4166	3222-0284
Gray	1/2	12.7	0.81	20.6	300	20.7	30	5	.18	500	REEL	XX	8PM4162	3222-0285
Green	3/8	9.5	0.68	17.3	300	20.7	30	3	.15	500	REEL	XX	6PM4167	3222-0234
Green	1/2	12.7	0.81	20.6	300	20.7	30	5	.18	500	REEL	XX	8PM4163	3222-0235
Red	1/4	6.4	0.54	13.7	300	20.7	30	3	.11	500	REEL	XX	4PM4164	3222-0333
Red	3/8	9.5	0.68	17.3	300	20.7	30	3	.14	300	REEL	T	6PM4168	3222-0610
Red	3/8	9.5	0.68	17.3	300	20.7	30	3	.15	500	REEL	XX	6PM4169	3222-0334
Red	1/2	12.7	0.81	20.6	300	20.7	30	5	.18	500	REEL	XX	8PM4164	3222-0335
Yellow	1/4	6.4	0.54	13.7	300	20.7	30	3	.11	500	REEL	XX	4PM4165	3222-0083
Yellow	1/2	12.7	0.81	20.6	300	20.7	30	5	.18	500	REEL	XX	8PM4165	3222-0085

NOTE: Pkg Code T=One piece continuous length reel. Pkg Code XX=One or two piece reel, 50 ft increments, no length less than 50 ft.

**Plant Master™ Plus Hose (200 - 300)**

Formerly - Duro Flex™



RECOMMENDED FOR: Applications requiring maximum flexibility and good resistance to air, water and heat. For SAE oils intermittent contact only.

TEMPERATURE: -40°F to +200°F (-40°C to +93°C) continuous service.

CONSTRUCTION: **Tube:** Specially compounded elastomer - Type B1; Medium Oil Resistance; Black. [See characteristics table.](#)

Reinforcement: Synthetic textile.

Cover: EPDM - Type P; Limited Oil Resistance; Perforated for all sizes through 1/2".

Specially compounded elastomer - Type D3; Limited Oil Resistance. For 2" black only. [See characteristics table.](#)

Design Factor: 3:1

COUPLINGS: 19 Standard Air Hose (Up through 1/2" only); 1 Long Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); 3 Cast Brass or Zinc Short Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); 4 Machined Brass Short Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); Power Crimp™ Couplings; GLX™ Couplings [G44 Series]. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: **Tube:** ARPM Class B (Medium Oil Resistance)

Cover: ARPM Class C (Limited Oil Resistance)

300 psi Working Pressure

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(in. Hg)	(in)	(Lbs.)	(ft)				
Black	1/2	12.7	0.84	21.3	300	20.7	25	4	.13	100	REEL	T	8PM4100	3200-0101
Red	1/2	12.7	0.84	21.3	300	20.7	25	4	.25	500	REEL	XX	8PM4101	3200-0009
Red	1/2	12.7	0.84	21.3	300	20.7	25	4	.22	500	REEL	T	8PM4110	3200-0209
Red	5/8	15.9	0.98	24.9	300	20.7	20	5	.30	500	REEL	XX	10PM4100	3200-0011
Red	3/4	19.1	1.15	29.2	300	20.7	20	5	.36	500	REEL	XX	12PM4100	3200-0013
Red	3/4	19.1	1.15	29.2	300	20.7	20	5	.36	500	REEL	T	12PM4110	3200-0213
Red	1/4	6.4	0.57	14.5	300	20.7	30	2	.12	500	REEL	XX	4PM4100	3200-0003
Red	3/8	9.5	0.73	18.5	300	20.7	30	3	.18	500	REEL	XX	6PM4100	3200-0007
Red	3/8	9.5	0.73	18.5	300	20.7	30	3	.18	500	REEL	T	6PM4110	3200-0207

NOTE: Pkg Code T=One piece continuous length reel. Pkg Code XX=One or two piece reel, 50 ft increments, no length less than 50 ft.

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TECHNICAL DATA

Plant Master™ Plus Hose (200 - 300) (Continued)

Formerly - Duro Flex™

250 psi Working Pressure

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1/4	6.4	0.50	12.7	250	17.2	30	2	.09	500	REEL	T	4PM4000	3200-1269
Black	3/8	9.5	0.66	16.8	250	17.2	30	3	.14	500	REEL	T	6PM4000	3200-1270
Red	1/2	12.7	0.81	20.6	250	17.2	25	4	.19	500	REEL	XX	8PM4001	3200-0008
Black	1/2	12.7	0.81	20.6	250	17.2	25	4	.19	500	REEL	T	8PM4000	3200-1271
Red	1/2	12.7	0.81	20.6	250	17.2	25	4	.25	500	REEL	T	8PM4010	3200-0208
Red	5/8	15.9	0.98	24.9	250	17.2	20	5	.27	500	REEL	XX	10PM4000	3200-0010
Red	3/4	19.1	1.15	29.2	250	17.2	20	5	.36	50	BULK	200	12PM4000	3200-5012
Red	3/4	19.1	1.15	29.2	250	17.2	20	5	.36	500	REEL	XX	12PM4001	3200-0012
Red	3/4	19.1	1.15	29.2	250	17.2	20	5	.35	500	REEL	T	12PM4010	3200-0212
Red	1/4	6.4	0.50	12.7	250	17.2	30	2	.10	500	REEL	XX	4PM4001	3200-0002
Red	1/4	6.4	0.50	12.7	250	17.2	30	2	.09	500	REEL	T	4PM4010	3200-0202
Red	3/8	9.5	0.66	16.8	250	17.2	30	3	.14	500	REEL	XX	6PM4001	3200-0006
Red	3/8	9.5	0.66	16.8	250	17.2	30	3	.14	500	REEL	T	6PM4010	3200-0206
Red	1	25.4	1.48	37.6	250	17.2	25	4	.54	200	REEL	T	16PM4010	3200-5643
Red	1	25.4	1.47	37.3	250	17.2	10	8	.54	400	REEL	XX	16PM4000	3200-0014
Red	1 1/4	31.8	1.73	43.9	250	17.2	10	10	.81	200	REEL	XX	20PM4000	3200-0015
Red	1 3/8	34.9	1.88	47.8	250	17.2	10	11	.86	250	REEL	XX	22PM4000	3200-0237
Red	1 1/2	38.1	1.98	50.3	250	17.2	10	12	.96	50	CTN	T	24PM4000	3200-5016
Red	1 1/2	38.1	1.98	50.3	250	17.2	10	12	1.08	100	REEL	T	24PM4001	3200-0350
Red	1 1/2	38.1	1.98	50.3	250	17.2	10	12	.79	200	REEL	XX	24PM4002	3200-0016
Red	1 1/2	38.1	1.98	50.3	250	17.2	10	12	.79	200	REEL	T	24PM4003	3200-5657
White	1 1/2	38.1	1.98	50.3	250	17.2	10	12	.96	250	REEL	XX	24PM4104	3200-0312

NOTE: Pkg Code T=One piece continuous length reel. Pkg Code XX=One or two piece reel, 50 ft increments, no length less than 50 ft.

200 psi Working Pressure

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	2	50.8	2.56	65.0	200	13.8	4	17	1.32	100	CTN	A	32PM4000	3206-3968
Red	2	50.8	2.56	65.0	200	13.8	4	17	1.28	100	CTN	T	32PM4001	3200-1279

NOTE: Pkg Code T=One piece continuous length reel. Pkg Code XX=One or two piece reel, 50 ft increments, no length less than 50 ft.

**Plant Master™ 300 Hose**

Formerly - Adapta Flex™ (Plant)



RECOMMENDED FOR: Air and water applications requiring maximum flexibility in any industry, including mining, construction, agriculture, vehicle repair and in-plant operations. Outstanding resistance to heat and ozone. Suitable for light agricultural spraying, such as dilute solutions of herbicides.

TEMPERATURE: -40°F to +200°F (-40°C to +93°C) continuous service.

CONSTRUCTION: **Tube:** EPDM - Type P; Limited Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Synthetic textile.
Cover: EPDM - Type P; Heat, Oil, Ozone Resistant. All sizes through 1/2" are perforated. [See characteristics table.](#)
Design Factor: 3:1

COUPLINGS: 19 Standard Air Hose (Up through 1/2" only); 1 Long Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); 3 Cast Brass or Zinc Short Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); 4 Machined Brass Short Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); Power Crimp™ Couplings; GLX™ Couplings [G44 Series]. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: **Tube:** ARPM Class C (Limited Oil Resistance)
Cover: ARPM Class C (Limited Oil Resistance)

Color	Hose I.D. (in)	Hose O.D. (mm)	Hose I.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (in. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	3/4	19.1	1.15	29.2	300	20.7	15	6	.35	500	REEL	XX	12PM1500	3204-5661
Black	1	25.4	1.48	37.6	300	20.7	10	8	.59	400	REEL	XX	16PM1503	3204-1718
Blue	3/8	9.5	0.69	17.5	300	20.7	30	3	.15	500	REEL	XX	6PM1500	3204-1501
Blue	1/2	12.7	0.83	21.1	300	20.7	25	5	.20	500	REEL	XX	8PM1500	3204-1503
Blue	3/4	19.1	1.15	29.2	300	20.7	15	6	.35	50	BULK	200	12PM1501	3204-0560
Blue	3/4	19.1	1.15	29.2	300	20.7	15	6	.35	500	REEL	XX	12PM1502	3204-1505
Green	3/4	19.1	1.15	29.2	300	20.7	15	6	.35	50	BULK	200	12PM1503	3204-0506
Green	3/4	19.1	1.15	29.2	300	20.7	15	6	.35	500	REEL	XX	12PM1504	3204-1515
Red	1/4	6.4	0.53	13.5	300	20.7	30	3	.10	500	REEL	XX	4PM1500	3204-1307
Red	1/4	6.4	0.53	13.5	300	20.7	30	3	.10	500	REEL	T	4PM1510	3204-5307
Red	3/8	9.5	0.67	17.0	300	20.7	30	3	.15	50	BULK	T	6PM1502	3204-1231
Red	3/8	9.5	0.67	17.0	300	20.7	30	3	.15	500	REEL	XX	6PM1503	3204-1325
Red	3/8	9.5	0.67	17.0	300	20.7	30	3	.15	500	REEL	T	6PM1510	3204-5326
Red	1/2	12.7	0.83	21.1	300	20.7	25	5	.20	500	REEL	XX	8PM1501	3204-1334
Red	1/2	12.7	0.83	21.1	300	20.7	25	5	.22	500	REEL	T	8PM1510	3204-5334
Red	3/4	19.1	1.15	29.2	300	20.7	15	6	.35	50	BULK	200	12PM1505	3204-5675
Red	3/4	19.1	1.15	29.2	300	20.7	15	6	.35	500	REEL	XX	12PM1506	3204-1355
Red	3/4	19.1	1.15	29.2	300	20.7	15	6	.35	500	REEL	T	12PM1519	3204-5355
Red	1	25.4	1.47	37.3	300	20.7	10	8	.60	50	CTN	T	16PM1500	3204-0681
Red	1	25.4	1.47	37.3	300	20.7	10	8	.54	300	REEL	XX	16PM1501	3204-5662
Red	1	25.4	1.47	37.3	300	20.7	10	8	.54	400	REEL	XX	16PM1502	3204-1364
Red	1	25.4	1.47	37.3	300	20.7	10	8	.54	400	REEL	T	16PM1510	3204-0901
Red	1	25.4	1.47	37.3	300	20.7	10	8	.60	500	REEL	XX	16PM1504	3204-1650
Yellow	3/8	9.5	0.69	17.5	300	20.7	30	3	.15	500	REEL	XX	6PM1504	3204-1521
Yellow	1/2	12.7	0.83	21.1	300	20.7	25	5	.20	500	REEL	XX	8PM1502	3204-1523
Yellow	3/4	19.1	1.15	29.2	300	20.7	15	6	.37	50	BULK	200	12PM1507	3204-0558
Yellow	3/4	19.1	1.15	29.2	300	20.7	15	6	.35	500	REEL	XX	12PM1508	3204-1525

NOTE: Pkg Code T=One piece continuous length reel. Pkg Code XX=One or two piece reel, 50 ft increments, no length less than 50 ft.

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PROPER HOSE SELECTION

HOSE FINDER

Plant Master™ 250 Hose - Black

Formerly - Adapta Flex™ (Plant)



RECOMMENDED FOR: Air and water applications requiring maximum flexibility in any industry, including mining, construction, agriculture, vehicle repair and in-plant operations. Outstanding resistance to heat and ozone. Suitable for light agricultural spraying, such as dilute solutions of herbicides.

TEMPERATURE: -40°F to +200°F (-40°C to +93°C) continuous service.

CONSTRUCTION:
Tube: EPDM - Type P; Limited Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Synthetic textile.
Cover: EPDM - Type P; Heat, Oil, Ozone Resistant; Black. All sizes through 1/2" are perforated. [See characteristics table.](#)
Design Factor: 3:1

COUPLINGS: 19 Standard Air Hose (Up through 1/2" only); 1 Long Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); 3 Cast Brass or Zinc Short Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); 4 Machined Brass Short Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); Power Crimp™ Couplings; GLX™ Couplings [G44 Series]. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: **Tube:** ARPM Class C (Limited Oil Resistance)
Cover: ARPM Class C (Limited Oil Resistance)

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1/4	6.4	0.50	12.7	250	17.2	30	3	.08	500	REEL	XX	4PM1100	3204-1404
Black	3/8	9.5	0.66	16.8	250	17.2	30	3	.14	500	REEL	XX	6PM1101	3204-1410
Black	3/8	9.5	0.66	16.8	250	17.2	30	3	.14	500	REEL	T	6PM1111	3204-4431
Black	1/2	12.7	0.81	20.6	250	17.2	25	5	.19	500	REEL	XX	8PM1100	3204-1416
Black	1/2	12.7	0.81	20.6	250	17.2	25	5	.19	500	REEL	T	8PM1110	3204-4432
Black	3/4	19.1	1.15	29.2	250	17.2	20	6	.35	50	BULK	200	12PM1101	3204-5820
Black	3/4	19.1	1.15	29.2	250	17.2	20	6	1.29	200	UPS	XX	12PM1100	3204-1427
Black	3/4	19.1	1.15	29.2	250	17.2	20	6	.35	500	REEL	XX	12PM1102	3204-1425
Black	1 1/4	31.8	1.73	43.9	250	17.2	10	10	.86	200	REEL	XX	20PM1100	3204-1434
Black	1 21/64	33.8	1.57	39.9	250	17.2	10	10	.70	300	REEL	XX	133PM1100	3204-0946
Black	1 1/2	38.1	1.97	50.0	250	17.2	10	12	.79	100	REEL	T	24PM1102	3204-1270
Black	1 1/2	38.1	1.98	50.3	250	17.2	10	12	.85	200	REEL	XX	24PM1100	3204-1437
Black	1 1/2	38.1	1.98	50.3	250	17.2	10	12	.79	250	REEL	T	24PM1101	3204-1466

NOTE: Pkg Code T=One piece continuous length reel. Pkg Code XX=One or two piece reel, 50 ft increments, no length less than 50 ft.

Assemblies

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ea)				
Black	3/8	9.5	0.66	16.8	250	17.2	30	3.00	7.43	50	ASSY	5	6PM1100	3204-1721

NOTE: Termination ends are 1/4" male NPT.

**Plant Master™ 250 Hose - Colors**

Formerly - Adapta Flex™ (Plant)



RECOMMENDED FOR: Air and water applications requiring maximum flexibility in any industry, including mining, construction, agriculture, vehicle repair and in-plant operations. Outstanding resistance to heat and ozone. Suitable for light agricultural spraying, such as dilute solutions of herbicides.

TEMPERATURE: -40°F to +200°F (-40°C to +93°C) continuous service.

CONSTRUCTION: **Tube:** EPDM - Type P; Limited Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Synthetic textile.
Cover: EPDM - Type P; Heat, Oil, Ozone Resistant. All sizes through 1/2" are perforated. [See characteristics table.](#)
Design Factor: 3:1

COUPLINGS: 19 Standard Air Hose (Up through 1/2" only); 1 Long Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); 3 Cast Brass or Zinc Short Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); 4 Machined Brass Short Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); Power Crimp™ Couplings; GLX™ Couplings [G44 Series]. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: **Tube:** ARPM Class C (Limited Oil Resistance)
Cover: ARPM Class C (Limited Oil Resistance)

Color	Hose I.D. (in)	Hose I.D. (mm)	Hose O.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Blue	1/4	6.4	0.50	12.7	250	17.2	30	3	.08	500	REEL	XX	4PM1101	3204-1496
Blue	3/8	9.5	0.66	16.8	250	17.2	30	3	.14	500	REEL	XX	6PM1102	3204-1497
Blue	1/2	12.7	0.81	20.6	250	17.2	25	5	.19	500	REEL	XX	8PM1101	3204-1498
Blue	3/4	19.1	1.15	29.2	250	17.2	20	6	.35	500	REEL	XX	12PM1103	3204-1500
Green	1/4	6.4	0.50	12.7	250	17.2	30	3	.08	500	REEL	XX	4PM1102	3204-1516
Green	3/8	9.5	0.66	16.8	250	17.2	30	3	.14	500	REEL	XX	6PM1103	3204-1517
Red	1/4	6.4	0.50	12.7	250	17.2	30	3	.08	100	BULK	500	4PM1103	3204-1731
Red	1/4	6.4	0.50	12.7	250	17.2	30	3	.08	500	REEL	XX	4PM1104	3204-1304
Red	1/4	6.4	0.50	12.7	250	17.2	30	3	.08	500	REEL	T	4PM1110	3204-5304
Red	3/8	9.5	0.66	16.8	250	17.2	30	3	.14	500	REEL	XX	6PM1104	3204-1322
Red	3/8	9.5	0.66	16.8	250	17.2	30	3	.14	500	REEL	T	6PM1112	3204-5321
Red	1/2	12.7	0.81	20.6	250	17.2	25	5	.19	50	BULK	T	8PM1102	3204-1230
Red	1/2	12.7	0.81	20.6	250	17.2	25	5	.19	500	REEL	XX	8PM1103	3204-1331
Red	5/8	15.9	0.97	24.6	250	17.2	20	6	.26	50	BULK	250	10PM1100	3204-5415
Red	5/8	15.9	0.97	24.6	250	17.2	20	6	.26	500	REEL	XX	10PM1101	3204-1340
Red	3/4	19.1	1.15	29.2	250	17.2	20	6	.35	50	BULK	200	12PM1105	3204-5420
Red	3/4	19.1	1.11	28.2	250	17.2	20	6	.35	500	REEL	XX	12PM1106	3204-1349
Red	3/4	19.1	1.11	28.2	250	17.2	20	6	.35	500	REEL	T	12PM1110	3204-5349
Yellow	1/4	6.4	0.50	12.7	250	17.2	30	3	.08	500	REEL	XX	4PM1105	3204-1526
Yellow	3/8	9.5	0.66	16.8	250	17.2	30	3	.14	500	REEL	XX	6PM1105	3204-1527
Yellow	1/2	12.7	0.81	20.6	250	17.2	25	5	.19	500	REEL	XX	8PM1104	3204-1528
Yellow	3/4	19.1	1.15	29.2	250	17.2	20	6	.35	500	REEL	XX	12PM1107	3204-1530
Yellow	1	25.4	1.47	37.3	250	17.2	10	8	.62	400	REEL	XX	16PM1100	3204-1532

NOTE: Pkg Code T=One piece continuous length reel. Pkg Code XX=One or two piece reel, 50 ft increments, no length less than 50 ft.

Assemblies

Color	Hose I.D. (in)	Hose I.D. (mm)	Hose O.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ea)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Red	3/8	9.5	0.66	16.8	250	17.2	30	3	6.53	50	ASSY	54	6PM1110	3204-1900
Red	3/8	9.5	0.66	16.8	250	17.2	30	3	7.72	50	ASSY	8	6PM1130	3204-1720

NOTE: Termination ends are 1/4" male NPT.

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PROPER HOSE SELECTION

HOSE FINDER

Plant Master™ Hose (150-200) - Black

Formerly - Adapta Flex™ (Plant)



RECOMMENDED FOR: Air and water applications requiring maximum flexibility in any industry, including mining, construction, agriculture, vehicle repair and in-plant operations. Outstanding resistance to heat and ozone. Suitable for light agricultural spraying, such as dilute solutions of herbicides.

TEMPERATURE: -40°F to +200°F (-40°C to +93°C) continuous service.

CONSTRUCTION:
Tube: EPDM - Type P; Limited Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Synthetic textile.
Cover: EPDM - Type P; Heat, Oil, Ozone Resistant; Black. All sizes through 1/2" are perforated. [See characteristics table.](#)
Design Factor: 3:1

COUPLINGS: 19 Standard Air Hose (Up through 1/2" only); 1 Long Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); 3 Cast Brass or Zinc Short Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); 4 Machined Brass Short Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); Power Crimp™ Couplings; GLX™ Couplings [G44 Series]. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS:
Tube: ARPM Class C (Limited Oil Resistance)
Cover: ARPM Class C (Limited Oil Resistance)

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1	25.4	1.40	35.6	150	10.3	10	8	.48	400	REEL	XX	16PM1001	3204-1428
Black	1/4	6.4	0.50	12.7	200	13.8	30	3	.09	500	REEL	XX	4PM1000	3204-1401
Black	1/4	6.4	0.50	12.7	200	13.8	30	3	.09	500	REEL	T	4PM1011	3204-4402
Black	5/16	7.9	0.53	13.5	200	13.8	30	3	.09	500	REEL	XX	5PM1000	3204-0710
Black	3/8	9.5	0.66	16.8	200	13.8	30	3	.14	500	REEL	XX	6PM1002	3204-1407
Black	3/8	9.5	0.66	16.8	200	13.8	30	3	.15	500	UPS	XX	6PM1005	3204-1408
Black	3/8	9.5	0.66	16.8	200	13.8	30	3	.14	500	REEL	T	6PM1011	3204-4407
Black	1/2	12.7	0.81	20.6	200	13.8	25	5	.21	250	UPS	XX	8PM1003	3204-1414
Black	1/2	12.7	0.81	20.6	200	13.8	25	5	.20	500	REEL	XX	8PM1001	3204-1413
Black	1/2	12.7	0.81	20.6	200	13.8	25	5	.19	500	REEL	T	8PM1011	3204-4413
Black	5/8	15.9	0.97	24.6	200	13.8	20	6	.26	500	REEL	XX	10PM1001	3204-1419
Black	5/8	15.9	0.97	24.6	200	13.8	20	6	.26	600	REEL	T	10PM1002	3204-5689
Black	3/4	19.1	1.11	28.2	200	13.8	15	6	.31	50	CTN	T	12PM1009	3204-0729
Black	3/4	19.1	1.11	28.2	200	13.8	15	6	.32	500	REEL	XX	12PM10010	3204-1422
Black	3/4	19.1	1.11	28.2	200	13.8	15	6	.23	500	REEL	T	12PM1011	3204-4422
Black	3/4	19.1	1.11	28.2	200	13.8	15	6	.24	600	REEL	XX	12PM10011	3204-5682
Black	1	25.4	1.40	35.6	200	13.8	10	8	.48	125	UPS	YY	16PM1005	3204-1432
Black	1	25.4	1.40	35.6	200	13.8	10	8	.48	400	REEL	XX	16PM1002	3204-1431
Black	1	25.4	1.40	35.6	200	13.8	10	8	.44	400	UPS	T	16PM1011	3204-1232

NOTE: Pkg Code T=One piece continuous length reel. Pkg Code XX=One or two piece reel, 50 ft increments, no length less than 50 ft.

**Plant Master™ Hose (150-200) - Red**

Formerly - Adapta Flex™ (Plant)



RECOMMENDED FOR: Air and water applications requiring maximum flexibility in any industry, including mining, construction, agriculture, vehicle repair and in-plant operations. Outstanding resistance to heat and ozone. Suitable for light agricultural spraying, such as dilute solutions of herbicides.

TEMPERATURE: -40°F to +200°F (-40°C to +93°C) continuous service.

CONSTRUCTION: **Tube:** EPDM - Type P; Limited Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Synthetic textile.
Cover: EPDM - Type P; Heat, Oil, Ozone Resistant; Red. All sizes through 1/2" are perforated. [See characteristics table.](#)
Design Factor: 3:1

COUPLINGS: 19 Standard Air Hose (Up through 1/2" only); 1 Long Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); 3 Cast Brass or Zinc Short Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); 4 Machined Brass Short Shank (Up through 1/2" with 20 brass ferrules, up through 1" with bands); Power Crimp™ Couplings; GLX™ Couplings [G44 Series]. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: **Tube:** ARPM Class C (Limited Oil Resistance)
Cover: ARPM Class C (Limited Oil Resistance)

Color	Hose I.D. (in)	 (mm)	Hose O.D. (in)	 (mm)	Max. W.P. (psi)	 (Bar)	Vac. (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Red	1	25.4	1.39	35.3	150	10.3	10	8	.48	400	REEL	XX	16PM1003	3204-1358
Red	1	25.4	1.39	35.3	150	10.3	10	8	.43	400	REEL	T	16PM1012	3204-1200
Red	1/4	6.4	0.50	12.7	200	13.8	30	3	.08	50	BULK	500	4PM1002	3204-1730
Red	1/4	6.4	0.50	12.7	200	13.8	30	3	.09	500	REEL	XX	4PM1003	3204-1301
Red	1/4	6.4	0.50	12.7	200	13.8	30	3	.09	500	UPS	XX	4PM1001	3204-1373
Red	1/4	6.4	0.50	12.7	200	13.8	30	3	.11	500	REEL	T	4PM1012	3204-5301
Red	5/16	7.9	0.53	13.5	200	13.8	30	3	.09	500	REEL	XX	5PM1001	3204-1316
Red	3/8	9.5	0.66	16.8	200	13.8	30	3	.15	50	BULK	T	6PM1003	3204-5315
Red	3/8	9.5	0.66	16.8	200	13.8	30	3	.14	400	UPS	T	6PM1006	3204-1375
Red	3/8	9.5	0.66	16.8	200	13.8	30	3	.14	500	REEL	XX	6PM1004	3204-1319
Red	3/8	9.5	0.66	16.8	200	13.8	30	3	.14	500	REEL	T	6PM1012	3204-5319
Red	1/2	12.7	0.81	20.6	200	13.8	25	5	.23	250	UPS	XX	8PM1004	3204-1377
Red	1/2	12.7	0.81	20.6	200	13.8	25	5	.20	500	REEL	XX	8PM1002	3204-1328
Red	1/2	12.7	0.81	20.6	200	13.8	25	5	.22	500	REEL	T	8PM1012	3204-5328
Red	5/8	15.9	0.97	24.6	200	13.8	20	6	.26	250	UPS	XX	10PM1000	3204-1379
Red	5/8	15.9	0.97	24.6	200	13.8	20	6	.26	500	REEL	XX	10PM1003	3204-1337
Red	5/8	15.9	0.97	24.6	200	13.8	20	6	.29	500	REEL	T	10PM1010	3204-5337
Red	3/4	19.1	1.11	28.2	200	13.8	15	6	.31	50	BULK	200	12PM10012	3204-1636
Red	3/4	19.1	1.11	28.2	200	13.8	15	6	.31	100	CTN	T	12PM10013	3204-1637
Red	3/4	19.1	1.11	28.2	200	13.8	15	6	.31	200	UPS	XX	12PM10016	3204-1381
Red	3/4	19.1	1.11	28.2	200	13.8	15	6	.35	300	REEL	T	12PM10014	3204-1966
Red	3/4	19.1	1.11	28.2	200	13.8	15	6	.31	500	REEL	XX	12PM10015	3204-1346
Red	3/4	19.1	1.11	28.2	200	13.8	15	6	.36	500	REEL	T	12PM1012	3204-5346
Red	1	25.4	1.40	35.6	200	13.8	10	8	.45	125	UPS	T	16PM1006	3204-1383
Red	1	25.4	1.39	35.3	200	13.8	10	8	.48	400	REEL	XX	16PM1004	3204-1361
Red	1	25.4	1.40	35.6	200	13.8	10	8	.46	400	REEL	T	16PM1013	3204-1656

NOTE: Pkg Code T=One piece continuous length reel. Pkg Code XX=One or two piece reel, 50 ft increments, no length less than 50 ft.

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PROPER HOSE SELECTION

HOSE FINDER

Plant Master™ 300 NC Hose

Formerly - Ohmega™



- RECOMMENDED FOR:** Medium-duty air and water applications where a hose with high electrical resistance is needed.
- TEMPERATURE:** -20°F to +150°F (-29°C to +66°C) continuous service, 176°F (80°C) intermittent.
- CONSTRUCTION:** **Tube:** EPDM - Type P; Limited Oil Resistance; Carbon-Free; Green. [See characteristics table.](#)
Reinforcement: Synthetic textile.
Cover: EPDM - Type P; Limited Oil Resistance; Carbon-Free; Red. [See characteristics table.](#)
Design Factor: 4:1
- COUPLINGS:** 19 Standard Air Hose (For sizes 3/16" through 3/8" only); 1 Long Shank; 18 Universal Quick Acting; GLX™ Couplings [G44 Series]. [Reference the Industrial Hose Coupling Selection Overview.](#)
- STANDARDS:** Non-conductive (>1 Megohm/in.).
 Storage and use may adversely affect electrical resistance.
Tube: ARPM Class C (Limited Oil Resistance)
Cover: ARPM Class C (Limited Oil Resistance)

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Red	3/8	9.5	0.75	19.1	300	20.7	30	3	.19	500	REEL	XX	6PM1600	3237-0704
Red	1/2	12.7	0.88	22.4	300	20.7	25	5	.24	500	REEL	XX	8PM1600	3237-0705
Red	3/4	19.1	1.16	29.5	300	20.7	20	6	.36	500	REEL	XX	12PM1600	3237-0706



CHEMICAL TRANSFER

HOSE CHARACTERISTICS

Ratings are for normal or usual range of the specified compounds. Many are modified to meet the needs of specific applications.

PLEASE READ AND OBSERVE ALL WARNINGS AND CAUTION STATEMENTS THROUGHOUT THIS CATALOG.

Gates Type	Common Name or Trade Name	Elastomer	Weather / Ozone	Abrasion
J	CPE	Chlorinated Polyethylene	Very Good	Good
K	Gatron™	Modified Cross Linked Polyethylene	Excellent	Good
L	UHMWPE	Ultra-High Molecular Weight Polyethylene	Very Good	Excellent
P	EPDM	Ethylene Propylene Diene	Excellent	Good
T	FEP	Fluorinated Polyethylene	Excellent	Very Good

NOTE: Ratings are for general or typical elastomer formulations. Some hoses have special formulations that change the performance of these characteristics to be more suitable for certain applications, such as improved temperature range or resistance to specific chemicals. For selection assistance, refer to product catalog pages and also the Hose Finder and Chemical Resistance sections at the back of this catalog.

WARNING: For all chemical applications above +125 °F (+52 °C).

Contact Gates Product Application Engineering
303-744-5070
fppasupport@gates.com

Hose Family Name	Tube Type	Cover Type	Smooth or Corrugated	Crush Resistant Option	MegaFlex Option	General Chemical Resistance	Temp Min/Max
Chem Master™ XTreme™ FEP SD	FEP	EPDM	Corrugated	Yes	-	Best	-40°F/300°F
Chem Master Plus CPE SD MegaFlex™	CPE	EPDM	Corrugated	-	Yes	Very Good	-40°F/275°F
Chem Master Plus XLPE SD	Gatron	EPDM	Corrugated	Yes	-	Very Good	-40°F/250°F
Chem Master Plus UHMWPE SD	UHMWPE	EPDM	Corrugated	Yes	-	Very Good	-40°F/212°F
Chem Master EPDM SD	EPDM	EPDM	Corrugated	-	-	Good	-40°F/250°F

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HOSE FINDER

ACID/CHEMICAL HOSE

Selecting the right acid/chemical hose is EXTREMELY critical. An incompatible hose can lead to potentially dangerous or fatal accidents/failures.

To ensure selection of the correct acid/ chemical hose, follow these steps:

1. Use the Chemical Resistance Table and Hose Finder in this catalog to select the proper hose.
The table lists approximately 1,400 chemicals and the Gates tube stocks most suitable for each type of chemical.
2. Use couplings that are compatible with the application and the product being conveyed.
3. Contact your Gates representative or distributor to help you select the correct hose, or contact the Gates Hose Product Application group to answer specific application questions at 303-744-5070 or fppasupport@gates.com

FOLLOW THESE TIPS FOR A SAFER CHEMICAL OPERATION:

Wear protective clothing

- Chemical hose operators must wear protective clothing, including face or eye protection, rubber gloves and boots.
- A respirator may be required in some situations.

Monitor the pressure and temperature

- Never exceed the maximum rated working pressure or temperature rating.

Monitor the environment

- Never allow the hose to lie in pools of chemicals or let chemicals drip on the hose cover. A hose cover that is not resistant to the chemical it is being exposed to can deteriorate and lead to premature hose failure.
- Never leave an operating transfer hose unattended.

Always drain the chemicals from the hose

- Always disconnect the hose when not in service.
- Completely drain and flush all corrosive residues and vapors.
- Use extreme caution when flushing the hose with water. Some chemicals, such as concentrated acid, may react with water and splatter.
- Always dispose of the waste material in an environmentally safe manner.
- For more information, see the hose cleaning section on page 17.

Routine maintenance and testing

- Inspect hose and couplings daily, or at shift changes.
- Hydrostatic pressure test on a pre-determined regular basis.
- All hose assemblies must be inspected and tested before entering service.
- Any hose which shows signs of wear or abuse must be removed from service immediately.

Hydrostatic testing

- Lay the hose straight on rollers in a clean, dry area.
- Visually inspect the outer cover for cuts, abrasions, bulges, soft spots, coupling slippage and any other signs of wear.
- After a hose assembly passes the visual inspection,

connect it to a suitable test pump and fit the open end with a quickopening valve.

- Fill the assembly with water and bleed the air out.
- Always use water. Never pressure test with compressed gases, corrosive liquids or solvents.
- Always use the recommended safety precautions.
- Pressure test requirements for new hose assemblies:
 - Raise the pressure to 1.5 times the rated working pressure and hold for five minutes.
 - While under pressure, carefully examine the hose assembly for leaks in the cover and at the couplings. Use a sheet of paper, not your hand, to check for leaks. Check for coupling slippage and any indications of weakness or failure in the hose
- Pressure test requirements for used assemblies:
 - First, make sure it is clean!
 - Clean the used hose in a 10 percent sodium hydroxide solution at 180°F, then rinse with water.
 - Raise the pressure to 1.5 times its rated working pressure.
 - Visually inspect the assembly for coupling slippage, leaks, or any indications of weakness or hose failure.
 - When the test and inspection are complete, thoroughly drain the water from the hose.

Fitting inspections

- Select the proper couplings. Metals are subject to attack by the conveyed chemicals.
- Check exposed surfaces of couplings, flanges and nipples for cracks or excessive corrosion.
- Check for coupling or nipple slippage.
- Remove any hose assembly from service that does not pass the inspection.

Electrical conductivity inspections

- Test the hose assembly with an ohmmeter or a battery-operated voltmeter. See page 16.

Accurate record keeping

- Tag each hose assembly.
- Record all test data on the hose inspection card and file it with maintenance records.

**Chem Master™ XTreme™ FEP (125-200) SD**

Formerly - Stallion™



RECOMMENDED FOR: Tank truck, barge, ship, or storage tank transfer of a variety of chemical products. Chem Master XTreme FEP has a wire helix for full suction capability. The tube stock Fluoroethylenepropylene (FEP) has excellent chemical resistance and is backed by Gates Gatron™ for flex fatigue safety at the coupling. Chem Master XTreme FEP is designed for easy cleaning in a bath containing 10% (NaOH) @ +212°F (+100°C). Cleaning in place (CIP) methods may be used. Applications include most basic chemicals which are building blocks for numerous chemicals used in a variety of industries. Reference Gates Chemical Resistance Table for proper hose selection. Compatible with commercially available Bio-Diesel fuels up to B-100.

CAUTION: Chem Master XTreme FEP is designed to withstand fluid temperatures to +300°F (+149°C); however the rating is dependent on the specific chemical conveyed. Contact Denver Product Application (303) 744-5070 for any chemical above +125°F (+52°C).

TEMPERATURE: -40°F to +300°F (-40°C to +149°C) normal service.

CONSTRUCTION: **Tube:** Fluoroethylenepropylene (FEP) - Type T; Backed with Gatron™ (Modified XLPE); White. [See characteristics table.](#)

Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.

Cover: EPDM - Type P; Corrugated with orange stripe. [See characteristics table.](#)

Design Factor: 4:1

COUPLINGS: 71 Permanent Swaged or Crimped (Fluid temperatures up to +300F (+149C)); 73 Permanent Swaged or Crimped (Fluid temperatures up to +300F (+149C)). [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Meets FDA requirements.

Color	Hose I.D. (in)	Hose O.D. (mm)	Hose I.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	1	25.4	1.58	40.1	200	13.8	20	5	.83	200	PLT	T	16CH3003	4698-0030
Blue	3/4	19.1	1.29	32.8	200	13.8	30	4	.52	20	PLT	T	12CH3000	4698-0021
Blue	3/4	19.1	1.29	32.8	200	13.8	30	4	.52	100	PLT	T	12CH3001	4698-0011
Blue	1	25.4	1.56	39.6	200	13.8	30	5	.63	20	PLT	T	16CH3000	4698-0022
Blue	1	25.4	1.56	39.6	200	13.8	30	5	.63	100	PLT	T	16CH3001	4698-0012
Blue	1	25.4	1.56	39.6	200	13.8	30	5	.63	200	PLT	T	16CH3002	4698-0029
Blue	1 1/4	31.8	1.80	45.7	200	13.8	30	7	.74	100	PLT	T	20CH3000	4698-0104
Blue	1 1/2	38.1	2.05	52.1	200	13.8	30	8	.93	100	PLT	T	24CH3001	4698-0013
Blue	1 1/2	38.1	2.05	52.1	200	13.8	30	8	.93	200	PLT	T	24CH3004	4698-0031
Blue	2	50.8	2.55	64.8	200	13.8	30	9	1.14	20	PLT	T	32CH3000	4698-0024
Blue	2	50.8	2.55	64.8	200	13.8	30	9	1.14	100	PLT	T	32CH3001	4698-0014
Blue	2 1/2	63.5	3.07	78.0	150	10.3	30	12	1.44	100	PLT	T	40CH3001	4698-0015
Blue	3	76.2	3.59	91.2	150	10.3	30	18	1.77	100	PLT	T	48CH3000	4698-0016
Blue	4	101.6	4.66	118.4	125	8.6	30	24	2.60	20	PLT	T	64CH3000	4698-0027
Blue	4	101.6	4.66	118.4	125	8.6	30	24	2.60	100	PLT	T	64CH3001	4698-0017

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PROPER HOSE SELECTION

HOSE FINDER

Chem Master™ XTreme™ FEP 200SD CR

Formerly - Stallion™ Crush Resistant



RECOMMENDED FOR: Tank truck, barge, ship, or storage tank transfer of a variety of chemical products. Chem Master XTreme FEP CR has a monofilament helix for suction and crush resistant capability. The tube stock Fluoroethylenepropylene (FEP) has excellent chemical resistance and is backed by Gates Gatron™ for flex fatigue safety at the coupling. Chem Master XTreme FEP CR is designed for easy cleaning in a bath containing 10% (NaOH) @ +212°F (+100°C). Cleaning in place (CIP) methods may be used. Applications include most basic chemicals which are building blocks for numerous chemicals used in a variety of industries. Reference Gates Chemical Resistance Table for proper hose selection. Compatible with commercially available Bio-Diesel fuels up to B-100.

CAUTION: Chem Master XTreme FEP CR is designed to withstand fluid temperatures to +300°F (+149°C); however the rating is dependent on the specific chemical conveyed. Contact Denver Product Application (303) 744-5070 for any chemical above +125°F (+52°C).

TEMPERATURE: -40°F to +300°F (-40°C to +149°C) normal service.

CONSTRUCTION: **Tube:** Fluoroethylenepropylene (FEP) - Type T; Backed with Gatron™ (Modified XLPE); White. [See characteristics table.](#)

Reinforcement: Multiple plies, synthetic textile with monofilament helix and static wire.

Cover: EPDM - Type P; Crush Resistant; Corrugated with orange stripe. [See characteristics table.](#)

Design Factor: 4:1

COUPLINGS: 71 Permanent Swaged or Crimped (Fluid temperatures up to +300F (+149C)); 73 Permanent Swaged or Crimped (Fluid temperatures up to +300F (+149C)). [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Meets FDA requirements.

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1	25.4	1.58	40.1	200	13.8	20	5	.63	150	PLT	T	16CH3042	4698-0085
Black	1 1/2	38.1	2.08	52.8	200	13.8	20	8	.86	150	PLT	T	24CH3003	4698-0086
Blue	3/4	19.1	1.33	33.8	200	13.8	20	4	.52	100	PLT	T	12CH3040	4698-0001
Blue	1	25.4	1.58	40.1	200	13.8	20	5	.63	50	PLT	T	16CH3040	4698-0072
Blue	1	25.4	1.58	40.1	200	13.8	20	5	.63	100	PLT	T	16CH3041	4698-0002
Blue	1 1/2	38.1	2.08	52.8	200	13.8	20	10	.86	200	PLT	T	24CH3041	4698-0099
Blue	2	50.8	2.58	65.5	200	13.8	20	9	1.14	100	PLT	T	32CH3041	4698-0004

**Chem Master™ Plus XLPE SD - Black**

Formerly - Mustang™



RECOMMENDED FOR: Tank truck, barge, ship, or storage tank transfer of a variety of chemical products. Chem Master Plus XLPE contains a wire helix for full suction capability, as well as for routing hoses through tight bends. Its Modified Cross-linked Polyethylene tube stock is 'best in class' for maintaining a tight seal with stainless steel fittings, and is designed for cleaning with 'open-end' 50 PSI steam or in a bath containing 10% (NaOH) @ +212°F (+100°C). Cleaning in place (CIP) methods may be used. Applications include over 950 basic chemicals that are building blocks for numerous chemicals used in a variety of industries. Reference Gates Chemical Resistance Table for proper hose selection.

CAUTION: For applications requiring greater than 90% sulfuric acid contact Denver Product Application (303) 744-5070. Chem Master Plus XLPE is designed to withstand fluid temperatures to +250°F (+121°C); however the rating is dependent on the specific chemical conveyed. Contact Denver Product Application (303) 744-5070 for any chemical above +125°F (+52°C). Not recommended for 'closed steam' cleaning.

TEMPERATURE: -40°F to +250°F (-40°C to +121°C) normal service.

CONSTRUCTION: **Tube:** Gatron™ Modified Cross-linked Polyethylene - Type K; Chemical Resistant; Tan. [See characteristics table.](#)

Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.

Cover: EPDM - Type P; Chemical Resistant; Corrugated; Black with orange stripe. [See characteristics table.](#)

Design Factor: 4:1

COUPLINGS: 7 Combination Nipple (Fluid temperatures to +125F (+52C)); 8 Tri-Lokt (Fluid temperatures to +125F (+52C)); 49 Industrial Quick-Connecting (Fluid temperatures to +125F (+52C)); 71 Permanent Swaged or Crimped (Fluid temperatures above +125F and up to +250F); 73 Permanent Swaged or Crimped (Fluid temperatures above +125F and up to +250F); 80 Gates GSP™ (for 2" only). [Reference the Industrial Hose Coupling Selection Overview.](#)

Color	Hose I.D. (in)	 (mm)	Hose O.D. (in)	 (mm)	Max. W.P. (psi)	 (Bar)	Vac. (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	3/4	19.1	1.25	31.8	200	13.8	30	4	.45	100	PLT	T	12CH4100	4695-0002
Black	3/4	19.1	1.25	31.8	200	13.8	30	4	.45	200	PLT	T	12CH4102	4695-0737
Black	1	25.4	1.50	38.1	200	13.8	30	5	.56	100	PLT	T	16CH4100	4695-0003
Black	1	25.4	1.50	38.1	200	13.8	30	5	.56	200	PLT	T	16CH4101	4695-0670
Black	1 1/4	31.8	1.75	44.5	200	13.8	30	6	.70	100	PLT	T	20CH4101	4695-0004
Black	1 1/2	38.1	2.04	51.8	200	13.8	30	8	.87	100	PLT	T	24CH4100	4695-0005
Black	1 1/2	38.1	2.04	51.8	200	13.8	30	8	.70	200	PLT	T	24CH4102	4695-0729
Black	2	50.8	2.54	64.5	200	13.8	30	9	1.08	100	PLT	T	32CH4100	4695-0001
Black	2	50.8	2.54	64.5	200	13.8	30	9	1.08	200	PLT	T	32CH4101	4695-0698
Black	2 1/2	63.5	3.05	77.5	150	10.3	30	12	1.41	100	PLT	T	40CH4100	4695-0006
Black	2 1/2	63.5	3.05	77.5	150	10.3	30	12	1.41	200	PLT	T	40CH4101	4695-0720
Black	3	76.2	3.58	90.9	150	10.3	30	18	1.81	100	PLT	T	48CH4100	4695-0007
Black	3	76.2	3.58	90.9	150	10.3	30	18	1.81	200	PLT	T	48CH4101	4695-0699
Black	4	101.6	4.69	119.1	150	10.3	30	24	2.72	100	PLT	T	64CH4100	4695-0008
Black	4	101.6	4.69	119.1	150	10.3	30	24	2.72	200	PLT	T	64CH4101	4695-0055

TECHNICAL DATA

AGRICULTURE

AIR BREATHING

AIR DUCT

AIR & MULTI-PURPOSE

CHEMICAL

DATA CENTER

ENGINE & MARINE

FOOD & BEVERAGE

MATERIAL HANDLING

MINING

OILFIELD

PETROLEUM

PRESSURE WASH & WASHDOWN

STEAM

WATER

COUPLINGS & CLAMPS

CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

HOSE FINDER

Chem Master™ Plus XLPE SD - Colors

Formerly - Mustang™



RECOMMENDED FOR: Tank truck, barge, ship, or storage tank transfer of a variety of chemical products. Chem Master Plus XLPE contains a wire helix for full suction capability, as well as for routing hoses through tight bends. Its Modified Cross-linked Polyethylene tube stock is 'best in class' for maintaining a tight seal with stainless steel fittings, and is designed for cleaning with 'open-end' 50 PSI steam or in a bath containing 10% (NaOH) @ +212°F (+100°C). Cleaning in place (CIP) methods may be used. Applications include over 950 basic chemicals that are building blocks for numerous chemicals used in a variety of industries. Reference Gates Chemical Resistance Table for proper hose selection.

CAUTION: For applications requiring greater than 90% sulfuric acid contact Denver Product Application (303) 744-5070. Chem Master Plus XLPE is designed to withstand fluid temperatures to +250°F (+121°C); however the rating is dependent on the specific chemical conveyed. Contact Denver Product Application (303) 744-5070 for any chemical above +125°F (+52°C). Not recommended for 'closed steam' cleaning.

TEMPERATURE: -40°F to +250°F (-40°C to +121°C) normal service.

CONSTRUCTION: **Tube:** Gatron™ Modified Cross-linked Polyethylene - Type K; Chemical Resistant; Tan. [See characteristics table.](#)

Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.

Cover: EPDM - Type P; Corrugated or smooth with orange stripe. [See characteristics table.](#)

Design Factor: 4:1

COUPLINGS: 7 Combination Nipple (Fluid temperatures to +125F (+52C)); 8 Tri-Lokt (Fluid temperatures to +125F (+52C)); 49 Industrial Quick-Connecting (Fluid temperatures to +125F (+52C)); 71 Permanent Swaged or Crimped (Fluid temperatures above +125F and up to +250F); 73 Permanent Swaged or Crimped (Fluid temperatures above +125F and up to +250F); 80 Gates GSP™ (for 2" only). [Reference the Industrial Hose Coupling Selection Overview.](#)

Smooth Cover

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)								
Green	2	50.8	2.54	64.5	200	13.8	30	9	1.07	100	PLT	T	32CH4105	4695-0267
Green	3	76.2	3.58	90.9	150	10.3	30	18	1.75	100	PLT	T	48CH4106	4695-0268

Corrugated Cover

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)								
Blue	1	25.4	1.50	38.1	200	13.8	30	5	.54	100	PLT	T	16CH4102	4695-0627
	2	50.8	2.54	64.5	200	13.8	30	9	1.10	100	PLT	T	32CH4102	4695-0930
Blue	2	50.8	2.54	64.5	200	13.8	30	9	1.35	200	PLT	T	32CH4103	4695-0285
	3	76.2	3.58	90.9	150	10.3	30	18	1.80	100	PLT	T	48CH4102	4695-0931
	3	76.2	3.58	90.9	150	10.3	30	18	2.13	200	PLT	T	48CH4103	4695-0288
Gray	3	76.2	3.58	90.9	150	10.3	30	18	1.76	100	PLT	T	48CH4104	4695-0633
Green	1	25.4	1.50	38.1	200	13.8	30	5	.56	100	PLT	T	16CH4103	4695-0628
	1 1/4	31.8	1.75	44.5	200	13.8	30	6	.67	100	PLT	T	20CH4100	4695-0949
	1 1/2	38.1	2.04	51.8	200	13.8	30	8	.87	100	PLT	T	24CH4104	4695-0211
Green	2	50.8	2.54	64.5	200	13.8	30	9	1.08	100	PLT	T	32CH4104	4695-0216
	2	50.8	2.54	64.5	200	13.8	30	9	1.08	200	PLT	T	32CH4106	4695-0700
	2 1/2	63.5	3.05	77.5	150	10.3	30	12	1.28	100	PLT	T	40CH4102	4695-0774
Green	2 1/2	63.5	3.05	77.5	150	10.3	30	12	1.42	200	PLT	T	40CH4103	4695-0830
	3	76.2	3.58	90.9	150	10.3	30	18	1.81	100	PLT	T	48CH4105	4695-0229
	4	101.6	4.69	119.1	150	10.3	30	24	2.78	100	PLT	T	64CH4102	4695-0970
Red	1	25.4	1.50	38.1	200	13.8	30	5	.56	100	PLT	T	16CH4104	4695-0684
	1 1/2	38.1	2.04	51.8	200	13.8	30	8	.87	200	PLT	T	24CH4105	4695-0832
	2	50.8	2.54	64.5	200	13.8	30	9	1.03	100	PLT	T	32CH4107	4695-0490
	3	76.2	3.58	90.9	150	10.3	30	18	1.81	100	PLT	T	48CH4108	4695-0707
Yellow	3/4	19.1	1.25	31.8	200	13.8	30	4	.46	100	PLT	T	12CH4101	4695-0686
	1	25.4	1.50	38.1	200	13.8	30	5	.61	100	PLT	T	16CH4105	4695-0051
	1 1/2	38.1	2.04	51.8	200	13.8	30	8	.87	200	PLT	T	24CH4106	4695-0780
	2	50.8	2.54	64.5	200	13.8	30	9	1.07	100	PLT	T	32CH4108	4695-0629
Yellow	3	76.2	3.58	90.9	150	10.3	30	18	1.73	100	PLT	T	48CH4109	4695-0052

**Chem Master™ Plus XLPE 200SD CR**

Formerly - Mustang™ Crush Resistant



RECOMMENDED FOR: Tank truck, barge, ship, or storage tank transfer of a variety of chemical products. Chem Master Plus XLPE CR contains a monofilament helix for suction and crush resistant capability, as well as for routing hoses through tight bends. Its Modified Cross-linked Polyethylene tube stock is 'best in class' for maintaining a tight seal with stainless steel fittings, and is designed for cleaning with 'open-end' 50 PSI steam or in a bath containing 10% (NaOH) @ +212°F (+100°C). Cleaning in place (CIP) methods may be used. Applications include over 950 basic chemicals that are building blocks for numerous chemicals used in a variety of industries. Reference Gates Chemical Resistance Table for proper hose selection.

CAUTION: For applications requiring greater than 90% sulfuric acid contact Denver Product Application (303) 744-5070. Chem Master Plus XLPE CR is designed to withstand fluid temperatures to +250°F (+121°C); however the rating is dependent on the specific chemical conveyed. Contact Denver Product Application (303) 744-5070 for any chemical above +125°F (+52°C). Not recommended for 'closed steam' cleaning.

TEMPERATURE: -40°F to +250°F (-40°C to +121°C) normal service.

CONSTRUCTION: **Tube:** Gatron™ Modified Cross-linked Polyethylene - Type K; Chemical Resistant; Tan. [See characteristics table.](#)

Reinforcement: Multiple plies, synthetic textile with monofilament helix and static wire.

Cover: EPDM - Type P; Corrugated with orange stripe. [See characteristics table.](#)

Design Factor: 4:1

COUPLINGS: 7 Combination Nipple (Fluid temperatures to +125F (+52C)); 8 Tri-Lokt (Fluid temperatures to +125F (+52C)); 49 Industrial Quick-Connecting (Fluid temperatures to +125F (+52C)); 71 Permanent Swaged or Crimped (Fluid temperatures above +125F and up to +250F); 73 Permanent Swaged or Crimped (Fluid temperatures above +125F and up to +250F); 80 Gates GSP™ (for 2" only). [Reference the Industrial Hose Coupling Selection Overview.](#)

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1	25.4	1.61	40.9	200	13.8	20	5	.56	100	PLT	T	16CH4140	4695-0608
Black	1 1/2	38.1	2.13	54.1	200	13.8	20	8	.87	100	PLT	T	24CH4140	4695-0609
Black	2	50.8	2.63	66.8	200	13.8	20	9	1.08	100	PLT	T	32CH4140	4695-0610
Blue	1 1/2	38.1	2.13	54.1	200	13.8	20	8	1.34	100	PLT	T	24CH4103	4695-0723
Green	1 1/2	38.1	2.13	54.1	200	13.8	20	8	.91	100	PLT	T	24CH4141	4695-0711

TECHNICAL DATA

AGRICULTURE

AIR BREATHING

AIR DUCT

AIR & MULTI-PURPOSE

CHEMICAL

DATA CENTER

ENGINE & MARINE

FOOD & BEVERAGE

MATERIAL HANDLING

MINING

OILFIELD

PETROLEUM

PRESSURE WASH & WASHDOWN

STEAM

WATER

COUPLINGS & CLAMPS

CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

HOSE FINDER

Chem Master™ Plus UHMWPE (150-200) SD

Formerly - Renegade™



RECOMMENDED FOR: Tank truck, barge, ship, or storage tank transfer of a variety of chemical products. Chem Master Plus UHMWPE contains a wire helix for full suction capability, as well as for routing hoses through tight bends. The Ultra High Molecular Weight Polyethylene tube stock has excellent chemical resistance and is backed by Gates Gatron™ for flex fatigue safety at the coupling. Chem Master Plus UHMWPE is designed for easy cleaning in a bath containing 10% (NaOH) @ +212°F (+100°C). Cleaning in place (CIP) methods may be used. Applications include over 450 basic chemicals which are building blocks for numerous chemicals used in a variety of industries. Reference Gates Chemical Resistance Table for proper hose selection.

CAUTION: Chem Master Plus UHMWPE is designed to withstand fluid temperatures to +212°F (+100°C); however the rating is dependent on the specific chemical conveyed. Contact Denver Product Application (303) 744-5070 for any chemical above +125°F (+52°C).

TEMPERATURE: -40°F to +212°F (-40°C to +100°C) normal service.

CONSTRUCTION: **Tube:** Ultra High Molecular Weight Polyethylene - Type L; Backed with Gatron™ (Modified XLPE); Clear. [See characteristics table.](#)

Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.

Cover: EPDM - Type P; Corrugated with orange stripe. [See characteristics table.](#)

Design Factor: 4:1

COUPLINGS: 7 Combination Nipple (Fluid temperatures to +125F (+52C)); 8 Tri-Lokt (Fluid temperatures to +125F (+52C)); 49 Industrial Quick-Connecting (Fluid temperatures to +125F (+52C)); 71 Permanent Swaged or Crimped (Fluid temps above +125F and up to +212F); 73 Permanent Swaged or Crimped (Fluid temps above +125F and up to +212F). [Reference the Industrial Hose Coupling Selection Overview.](#)

	Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
		(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
MINING	Black	2 1/2	63.5	3.01	76.5	150	10.3	30	12	1.38	100	PLT	T	40CH4500	4697-0005
	Black	3	76.2	3.53	89.7	150	10.3	30	18	1.74	100	PLT	T	48CH4500	4697-0006
	Black	3	76.2	3.53	89.7	150	10.3	30	18	1.76	200	PLT	T	48CH4501	4697-0022
OILFIELD	Black	4	101.6	4.53	115.1	150	10.3	30	24	2.51	100	PLT	T	64CH4500	4697-0007
	Green	2 1/2	63.5	3.01	76.5	150	10.3	30	12	1.39	100	PLT	T	40CH4501	4697-0019
	Green	3	76.2	3.53	89.7	150	10.3	30	18	1.76	100	PLT	T	48CH4502	4697-0020
PETROLEUM	Green	4	101.6	4.53	115.1	150	10.3	30	24	2.49	100	PLT	T	64CH4501	4697-0021
	Black	1	25.4	1.47	37.3	200	13.8	30	5	1.05	100	PLT	T	16CH4501	4697-0001
	Black	1 1/4	31.8	1.72	43.7	200	13.8	30	6	.67	100	PLT	T	20CH4500	4697-0002
PRESSURE WASH & WASHDOWN	Black	1 1/2	38.1	2.00	50.8	200	13.8	30	8	.86	100	PLT	T	24CH4500	4697-0003
	Black	2	50.8	2.50	63.5	200	13.8	30	9	1.08	100	PLT	T	32CH4500	4697-0004
	Blue	1	25.4	1.47	37.3	200	13.8	30	5	.51	100	PLT	T	16CH4502	4697-0114
STEAM	Blue	1 1/4	31.8	1.72	43.7	200	13.8	30	6	.60	100	PLT	T	20CH4501	4697-0115
	Blue	1 1/2	38.1	2.00	50.8	200	13.8	30	8	.78	100	PLT	T	24CH4501	4697-0097
	Blue	2	50.8	2.50	63.5	200	13.8	30	9	.99	100	PLT	T	32CH4501	4697-0116
WATER	Blue	2	50.8	2.50	63.5	200	13.8	30	9	.99	200	PLT	T	32CH4502	4697-0149
	Green	3/4	19.1	1.22	31.0	200	13.8	30	4	.41	100	PLT	T	12CH4500	4697-0014
	Green	1	25.4	1.47	37.3	200	13.8	30	5	.51	100	PLT	T	16CH4503	4697-0015
COUPLINGS & CLAMPS	Green	1	25.4	1.47	37.3	200	13.8	30	5	.51	200	PLT	T	16CH4500	4697-0057
	Green	1 1/4	31.8	1.72	43.7	200	13.8	30	6	.60	100	PLT	T	20CH4502	4697-0016
	Green	1 1/2	38.1	2.00	50.8	200	13.8	30	8	.78	100	PLT	T	24CH4502	4697-0017
CHEMICAL RESISTANCE TABLE	Green	1 1/2	38.1	2.00	50.8	200	13.8	30	8	.78	200	PLT	T	24CH4503	4697-0058
	Green	2	50.8	2.50	63.5	200	13.8	30	9	1.08	100	PLT	T	32CH4503	4697-0018
	Green	2	50.8	2.50	63.5	200	13.8	30	9	1.08	200	PLT	T	32CH4504	4697-0059
PROPER HOSE SELECTION	Red	1	25.4	1.47	37.3	200	13.8	30	5	.57	100	PLT	T	16CH4504	4697-0117
	Red	1 1/4	31.8	1.72	43.7	200	13.8	30	6	.68	100	PLT	T	20CH4503	4697-0118
	Red	2	50.8	2.50	63.5	200	13.8	30	9	1.09	100	PLT	T	32CH4505	4697-0119
HOSE FINDER	White	1	25.4	1.47	37.3	200	13.8	30	5	.51	100	PLT	T	16CH4505	4697-0123
	White	1 1/4	31.8	1.72	43.7	200	13.8	30	6	.60	100	PLT	T	20CH4504	4697-0124
	White	2	50.8	2.50	63.5	200	13.8	30	9	.99	100	PLT	T	32CH4506	4697-0125
	Yellow	1	25.4	1.47	37.3	200	13.8	30	5	.51	100	PLT	T	16CH4506	4697-0126

Continued On Next Page

**Chem Master™ Plus UHMWPE (150-200) SD (Continued)**

Formerly - Renegade™

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Yellow	1 1/4	31.8	1.72	43.7	200	13.8	30	6	.60	100	PLT	T	20CH4505	4697-0127
Yellow	2	50.8	2.50	63.5	200	13.8	30	9	.99	100	PLT	T	32CH4507	4697-0128

TECHNICAL DATA

AGRICULTURE

AIR BREATHING

AIR DUCT

AIR & MULTI-PURPOSE

CHEMICAL

DATA CENTER

ENGINE & MARINE

FOOD & BEVERAGE

MATERIAL HANDLING

MINING

OILFIELD

PETROLEUM

PRESSURE WASH & WASHDOWN

STEAM

WATER

COUPLINGS & CLAMPS

CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

HOSE FINDER

Chem Master™ Plus UHMWPE 200SD CR

Formerly - Renegade™



RECOMMENDED FOR: Tank truck, barge, ship, or storage tank transfer of a variety of chemical products. Chem Master™ Plus UHMWPE CR contains a monofilament helix for full suction and crush resistant capability, as well as for routing hoses through tight bends. The Ultra High Molecular Weight Polyethylene tube stock has excellent chemical resistance and is backed by Gates Gatron™ for flex fatigue safety at the coupling. Chem Master™ Plus UHMWPE CR is designed for easy cleaning in a bath containing 10% (NaOH) @ +212°F (+100°C). Cleaning in place (CIP) methods may be used. Applications include over 450 basic chemicals which are building blocks for numerous chemicals used in a variety of industries. Reference Gates Chemical Resistance Table for proper hose selection.

CAUTION: For applications requiring greater than 90% sulfuric acid contact Denver Product Application (303) 744-5070. Chem Master Plus UHMWPE 200SD CR is designed to withstand fluid temperatures to +250°F (+121°C); however the rating is dependent on the specific chemical conveyed. Contact Denver Product Application (303) 744-5070 for any chemical above +125°F (+52°C). Not recommended for 'closed steam' cleaning.

TEMPERATURE: -40°F to +212°F (-40°C to +100°C) normal service.

CONSTRUCTION: **Tube:** Ultra High Molecular Weight Polyethylene - Type L; Backed with Gatron™ (Modified XLPE); Clear. [See characteristics table.](#)

Reinforcement: Multiple plies, synthetic textile with monofilament helix and static wire.

Cover: EPDM - Type P; Crush Resistant; Corrugated with orange stripe. [See characteristics table.](#)

Design Factor: 4:1

COUPLINGS: 7 Combination Nipple (Fluid temperatures to +125F (+52C)); 8 Tri-Lokt (Fluid temperatures to +125F (+52C)); 49 Industrial Quick-Connecting (Fluid temperatures to +125F (+52C)); 71 Permanent Swaged or Crimped (Fluid temps above +125F and up to +212F); 73 Permanent Swaged or Crimped (Fluid temps above +125F and up to +212F). [Reference the Industrial Hose Coupling Selection Overview.](#)

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length				
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	1	25.4	1.59	40.4	200	13.8	30	5	.60	100	PLT	T	16CH4540	4697-0030
Black	1 1/4	31.8	1.84	46.7	200	13.8	30	6	.71	100	PLT	T	20CH4540	4697-0031
Black	1 1/2	38.1	2.09	53.1	200	13.8	30	8	.82	100	PLT	T	24CH4540	4697-0032
Black	2	50.8	2.59	65.8	200	13.8	30	9	1.03	100	PLT	T	32CH4540	4697-0033
Green	2	50.8	2.59	65.8	200	13.8	30	9	1.02	100	PLT	T	32CH4541	4697-0048



Chem Master™ Plus CPE SD MegaFlex™



RECOMMENDED FOR: Tank truck, barge, ship, or storage tank transfer of a variety of chemical products. Chem Master™ Plus CPE MegaFlex™ contains a wire helix for full suction capability, as well as for routing hoses through extremely tight bend radius applications.

CAUTION: Chem Master Plus CPE MegaFlex is designed to withstand fluid temperatures to 275°F (135° C), however, the rating is dependent upon the specific chemical being conveyed. Contact Denver Product Application (303-744-5070) for any chemical application above 125°F (+52°C).

TEMPERATURE: -40°F to +275°F (-40°C to +135°C) continuous service.

CONSTRUCTION: **Tube:** CPE - Type J; High Temperature Resistant; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: EPDM - Type P; Corrugated; Brown with orange stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 7 Combination Nipple (Fluid temperatures to +125F (+52C)); 8 Tri-Lokt (Fluid temperatures to +125F (+52C)); 49 Industrial Quick-Connecting (Fluid temperatures to +125F (+52C)); 71 Permanent Swaged or Crimped (Fluid temps above +125F and up to +212F); 73 Permanent Swaged or Crimped (Fluid temps above +125F and up to +212F).
[Reference the Industrial Hose Coupling Selection Overview.](#)

Color	Hose I.D. (in)	Hose I.D. (mm)	Hose O.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (in. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Brown	1	25.4	1.46	37.1	200	13.8	30	2	.51	100	PLT	T	16CH4000	4696-0008
Brown	1	25.4	1.46	37.1	200	13.8	30	2	.51	200	PLT	T	16CH4001	4696-0027
Brown	1 1/2	38.1	1.92	48.8	200	13.8	30	3	.75	100	PLT	T	24CH4000	4696-0015
Brown	2	50.8	2.48	63.0	200	13.8	30	4	1.01	100	PLT	T	32CH4000	4696-0016
Brown	2	50.8	2.48	63.0	200	13.8	30	4	1.01	200	PLT	T	32CH4001	4696-0028
Brown	3	76.2	3.48	88.4	150	10.3	30	8	1.61	100	PLT	T	48CH4000	4696-0024

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CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

HOSE FINDER

Chem Master™ EPDM SD

Formerly - Colt™



- RECOMMENDED FOR:** Tank truck, barge, ship, or storage tank transfer of a variety of mild chemical products. Chem Master EPDM contains a wire helix for full suction capability, as well as for routing hoses through tight bends. Its EPDM tube stock will withstand +250°F (+121°C) applications. Reference Gates Chemical Resistance Table for proper hose selection.
- CAUTION:** Chem Master EPDM is designed to withstand fluid temperatures to +250°F (+121°C); however the rating is dependent on the specific chemical conveyed. Contact Denver Product Application (303) 744-5070 for any chemical above +125°F (+52°C).
- TEMPERATURE:** -40°F to +250°F (-40°C to +121°C) normal service.
- CONSTRUCTION:** **Tube:** EPDM - Type P; Mild Chemical Resistance; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: EPDM - Type P; Chemical Resistant; Corrugated; Yellow with orange stripe. [See characteristics table.](#)
Design Factor: 4:1
- COUPLINGS:** 7 Combination Nipple (Fluid temperatures to +125F (+52C)); 8 Tri-Lokt (Fluid temperatures to +125F (+52C)); 49 Industrial Quick-Connecting (Fluid temperatures to +125F (+52C)); 71 Permanent Swaged or Crimped (Fluid temperatures above +125F and up to +250F); 73 Permanent Swaged or Crimped (Fluid temperatures above +125F and up to +250F). [Reference the Industrial Hose Coupling Selection Overview.](#)

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Yellow	3/4	19.1	1.27	32.3	150	10.3	30	3	.50	100	PLT	T	12CH5000	4696-0002
Yellow	1 1/4	31.8	1.79	45.5	150	10.3	30	4	.77	200	PLT	T	20CH5001	4696-0203
Yellow	1 1/2	38.1	2.04	51.8	150	10.3	30	5	.89	100	PLT	T	24CH5000	4696-0004
Yellow	2	50.8	2.54	64.5	150	10.3	30	6	1.07	100	PLT	T	32CH5000	4696-0005
Yellow	3	76.2	3.60	91.4	150	10.3	30	11	1.70	200	PLT	T	48CH5000	4696-0013



Chem Master™ DEF Transfer Hose

Formerly - Diesel Exhaust Fluid



RECOMMENDED FOR: DEF dispensing tank fill hose. Transfer of urea solutions such as ADBLUE.

TEMPERATURE: -40°F to +212°F (-40°C to +100°C) continuous service.

CONSTRUCTION: **Tube:** EPDM - Type P1; Limited Oil Resistance; Calcium Carbonate-, Zinc-Free; Black. [See characteristics table.](#)

Reinforcement: Braided, synthetic textile.

Cover: EPDM - Type P; Limited Oil Resistance; Wrapped; Black with orange stripe. [See characteristics table.](#)

Design Factor: 4:1

COUPLINGS: GLX™ Couplings [G44 Series]; Stainless Steel Braid Couplings [G17 Series]. [Reference the Industrial Hose Coupling Selection Overview.](#)

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	3/8	9.5	0.67	17.0	350	24.1	—	—	.16	250	REEL	—	6CH1000	4217-0054
Black	1/2	12.7	0.80	20.3	350	24.1	15	3	.25	300	REEL	J	8CH1100	4217-0319

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PROPER HOSE SELECTION

HOSE FINDER

Chem Master™ Hydrocarbon Drain

Formerly - Hydrocarbon Drain



RECOMMENDED FOR: This hose is designed for use in all types of refineries for drainage of hot liquid residue and hydrocarbons produced by the cleaning of storage tanks and containment vessels. The high-temperature tube and cover are rated at 300°F and resistant to steam vapors, oils and weather. The blue cover provides color identification in refineries and chemical plants. Crimp specs are available for Boss crimp style couplings and Gates MegaCrimp™ couplings.

CAUTION: Not recommended for steam service.

TEMPERATURE: -40°F to +300°F (-40°C to +149°C) continuous service.

CONSTRUCTION: **Tube:** Nitrile - Type C; High Oil Resistance; Wrapped; Black. [See characteristics table.](#)
Reinforcement: Braided, steel wire.
Cover: CPE - Type J; Medium Oil Resistance; Blue with orange stripe. [See characteristics table.](#)
Design Factor: 10:1

COUPLINGS: MegaCrimp™ Couplings [G25 Series] (Boss crimp style couplings). [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: **Tube:** ARPM Class A (High Oil Resistance)
Cover: ARPM Class B (Medium Oil Resistance)

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Blue	3/4	19.1	1.13	28.7	300	20.7	30	6	.42	500	REEL	T	12CH6000	3624-0144
Blue	1	25.4	1.38	35.1	300	20.7	30	8	.53	500	REEL	T	16CH6000	3624-0146

NOTE: 500ft reels contain 10ea 50ft continuous length pieces.



Data Center Cooling



RECOMMENDED FOR: The Gates Data Center Cooling Hose is designed for transferring coolant fluid in high performance computers and data centers to help control the temperature of the operating systems. Featuring a zinc-free peroxide-cured EPDM tube and a VW-1 rated flame-resistant EPDM cover, this hose offers flexibility and long-lasting performance in thermal management applications.

TEMPERATURE: -40°F to +257°F (-40°C to +125°C).

CONSTRUCTION: **Tube:** EPDM - Type P1 (Peroxide-cured, zinc free); Black. [See characteristics table.](#)
Reinforcement: Braided, synthetic textile.
Cover: EPDM - Type P; Heat Resistant; Wrapped; Black. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: GLX™ Couplings [G44 Series]; Stainless Steel Braid Couplings [G17 Series]; Hose Bead with Clamp; 91 Sanitary Flange. [Reference the Industrial Hose Coupling Selection Overview.](#)

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1/4	6.4	0.50	12.7	250	17.2	28	3	.09	500	REEL	F	4DM1006	4217-0034
Black	3/8	9.5	0.66	16.8	400	27.6	28	3	.13	750	REEL	—	6DM1005	4217-0036
Black	1/2	12.7	0.94	23.9	400	27.6	28	3	.02	1000	REEL	J	8DM1005	4217-0035
Black	1	25.4	1.36	34.5	250	17.2	10	6	.39	400	REEL	—	16DM1005	4217-0304

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PROPER HOSE SELECTION

HOSE FINDER

Data Master™ Cooling



RECOMMENDED FOR: In the complex world of data centers, reputations are built on reliability. The Data Master Cooling Hose is engineered with this type of quality in mind; offering a cutting-edge design to support the cleanliness, flexibility, and performance needs of your 24/7 operation. Whether you're upgrading your existing liquid cooling setup or installing a new one, the Data Master Cooling Hose adapts easily, making it the go-to choice for data centers that demand the best. When high demands and fluctuating temperatures are the norm, trust Gates. Densely-packed liquid cooling environments where hard piping isn't possible or desirable, like chilled water systems or emergency cooling systems found in data centers with high-density server racks.

TEMPERATURE: -40°F to +212°F (-40°C to +100°C).

CONSTRUCTION: **Tube:** EPDM - Type P1 (Peroxide-cured, zinc free); Heat Resistant; Black. [See characteristics table.](#)
Reinforcement: Braided, synthetic textile.
Cover: EPDM - Type P; Flame, Ozone-Resistant; Smooth; Black. [See characteristics table.](#)

COUPLINGS: Field Attachable LOC Couplings [G36 Series]; GLX™ Couplings [G44 Series] (Do not use clamps with Lock-On fittings); Stainless Steel Braid Couplings [G17 Series]; Hose Bead with Clamp; 94 Universal Quick Disconnect Couplings. [Reference the Industrial Hose Coupling Selection Overview.](#)

Blue Layline (Supply Lines)

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	7/32	5.7	0.40	10.4	300	20.7	—	1	.05	500	REEL	—	7/32DM1001	4217-0082
Black	1/4	6.4	0.49	12.4	300	20.7	28	1	.07	500	REEL	—	4DM1001	4217-0083
Black	3/8	9.5	0.61	15.6	300	20.7	28	2	.10	500	REEL	—	6DM1001	4217-0084
Black	1/2	12.7	0.74	18.7	300	20.7	28	2	.13	500	REEL	—	8DM1001	4217-0085
Black	3/4	19.1	1.03	26.1	300	20.7	15	3	.23	250	REEL	F	12DM1001	4217-0086
Black	1	25.4	1.34	34.0	300	20.7	10	4	.38	250	REEL	—	16DM1001	4217-0087

Red Layline (Return Lines)

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	7/32	5.7	0.40	10.4	300	20.7	—	1	.05	500	REEL	—	7/32DM1002	4217-0071
Black	1/4	6.4	0.49	12.4	300	20.7	28	1	.07	500	REEL	—	4DM1002	4217-0072
Black	3/8	9.5	0.61	15.6	300	20.7	28	2	.10	500	REEL	—	6DM1002	4217-0073
Black	1/2	12.7	0.74	18.7	300	20.7	28	2	.13	500	REEL	—	8DM1002	4217-0074
Black	3/4	19.1	1.03	26.1	300	20.7	15	3	.23	250	REEL	F	12DM1002	4217-0075
Black	1	25.4	1.34	33.9	300	20.7	10	4	.38	250	REEL	—	16DM1002	4217-0076

White Layline (Multi-Purpose Lines)

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	7/32	5.7	0.40	10.4	300	20.7	—	1	.05	500	REEL	—	7/32DM1005	4217-0059
Black	1/4	6.4	0.49	12.4	300	20.7	28	1	.07	500	REEL	—	4DM1000	4217-0061
Black	3/8	9.5	0.61	15.6	300	20.7	28	2	.10	500	REEL	—	6DM1000	4217-0062
Black	1/2	12.7	0.74	18.7	300	20.7	28	2	.13	500	REEL	—	8DM1000	4217-0063
Black	3/4	19.1	1.03	26.1	300	20.7	15	3	.23	250	REEL	F	12DM1000	4217-0064
Black	1	25.4	1.34	33.9	300	20.7	10	4	.38	250	REEL	—	16DM1000	4217-0065



Data Master™ MegaFlex™ Cooling



RECOMMENDED FOR: In high-demand environments—where data centers operate non-stop, handling critical workloads and requiring constant, reliable cooling—our Data Master MegaFlex rises to the challenge. Whether it's maintaining cleaner coolant, preventing kinks, or resisting flame and ozone degradation, our hose is built to keep your systems running smoothly, minimizing downtime and maximizing efficiency.

TEMPERATURE: -40°F to +212°F (-40°C to +100°C).

CONSTRUCTION: **Tube:** EPDM - Type P1 (Peroxide-cured, zinc free); Heat Resistant; Black. [See characteristics table.](#)
Reinforcement: High-tensile textile, helical wire.
Cover: EPDM - Type P; Flame, Ozone-Resistant; Corrugated; Black. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 71 Permanent Swaged or Crimped; 91 Sanitary Flange. [Reference the Industrial Hose Coupling Selection Overview.](#)

Blue Layline (Supply Lines)

Color	Hose I.D.		Hose O.D.		Max. W.P.		MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(in)	(Lbs.)	(ft)				
Black	1 1/4	31.8	1.65	41.9	150	10.3	2	.58	100	PLT	T	20DM1091	4217-0088
Black	1 1/2	38.1	1.95	49.5	150	10.3	3	.75	100	PLT	T	24DM1091	4217-0089
Black	2	50.8	2.40	61.2	150	10.3	3	.60	100	PLT	T	32DM1091	4217-0090
Black	3	76.2	3.50	87.6	150	10.3	3	1.01	100	PLT	T	48DM1091	4217-0091
Black	4	101.6	4.50	113.0	150	10.3	4	1.42	100	PLT	T	64DM1091	4217-0092

Red Layline (Return Lines)

Color	Hose I.D.		Hose O.D.		Max. W.P.		MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(in)	(Lbs.)	(ft)				
Black	1 1/4	31.8	1.65	41.9	150	10.3	2	.58	100	PLT	T	20DM1092	4217-0077
Black	1 1/2	38.1	1.95	49.5	150	10.3	3	.75	100	PLT	T	24DM1092	4217-0078
Black	2	50.8	2.40	61.2	150	10.3	3	.60	100	PLT	T	32DM1092	4217-0079
Black	3	76.2	3.50	87.6	150	10.3	3	1.01	100	PLT	T	48DM1092	4217-0080
Black	4	101.6	4.50	113.0	150	10.3	4	1.42	100	PLT	T	64DM1092	4217-0081

White Layline (Multi-Purpose Lines)

Color	Hose I.D.		Hose O.D.		Max. W.P.		MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(in)	(Lbs.)	(ft)				
Black	1 1/4	31.8	1.65	41.9	150	10.3	2	.58	100	PLT	T	20DM1090	4217-0066
Black	1 1/2	38.1	1.95	49.5	150	10.3	3	.75	100	PLT	T	24DM1090	4217-0067
Black	2	50.8	2.40	61.2	150	10.3	3	.60	100	PLT	T	32DM1090	4217-0068
Black	3	76.2	3.50	87.6	150	10.3	3	1.01	100	PLT	T	48DM1090	4217-0069
Black	4	101.6	4.50	113.0	150	10.3	4	1.42	100	PLT	T	64DM1090	4217-0070

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PROPER HOSE SELECTION

HOSE FINDER

4219BD Bio-Diesel Fuel Hose



RECOMMENDED FOR: Fuel injection hose for diesel and biodiesel (including all blends of SME, RME or PME). Also for gasoline, ethanol blends, 100% methanol (no blends), or engine oil. Not for in-tank or gaseous fuels.

CAUTION: Not for in-tank or gaseous fuels.

TEMPERATURE: -40°F to +275°F (-40°C to +135°C) continuous service (including biodiesel). -40°F to +302°F (-40°C to +150°C) intermittent service (excluding biodiesel).

CONSTRUCTION: **Tube:** HNBR - Type C1; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Aramid fiber.
Cover: CPE - Type J; Smooth; Black. [See characteristics table.](#)
Design Factor: 6:1

COUPLINGS: Hose bead fitting fastened with hose clamps. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: SAE 30R13 Nt3, CAT 1E4340B.

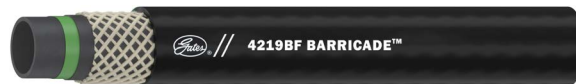
Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	3/16	4.8	0.41	10.4	175	12.1	24	1	.06	550	REEL	TT	3EH5000	4219-7124
Black	1/4	6.4	0.51	13.0	175	12.1	24	1	.09	550	REEL	TT	4EH5000	4219-7125
Black	5/16	7.9	0.53	16.0	175	12.1	24	2	.11	550	REEL	TT	5EH5000	4219-7127
Black	3/8	9.5	0.63	16.0	175	12.1	24	2	.09	550	REEL	TT	6EH5000	4219-7126
Black	1/2	12.7	0.78	19.8	175	12.1	24	2	.18	550	REEL	TT	8EH5000	4219-7128
Black	5/8	15.9	0.92	23.4	175	12.1	24	3	.24	550	REEL	TT	10EH5000	4219-6772
Black	3/4	19.1	1.08	27.4	175	12.1	24	3	.31	550	REEL	TT	12EH5000	4219-7129

Minimum Bend Radius (MBR) – Per ISO 10619B, -20% collapse.



4219BF Barricade™ Fuel Injection Fuel Hose 225

Formerly - Barricade™ Fuel Injection



RECOMMENDED FOR: Low-permeation fuel injection line including gasoline, ethanol blends, 100% methanol (no blends), diesel, biodiesel (including all blends of SME, RME or PME). Not for in-tank or gaseous fuels.

CAUTION: Not for in-tank or gaseous fuels.

TEMPERATURE: -40°F to +275°F (-40°C to +135°C) continuous service (including biodiesel). -40°F to +302°F (-40°C to +150°C) intermittent service (excluding biodiesel).

CONSTRUCTION: **Tube:** HNBR - Type C1; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Synthetic textile.
Cover: CPE - Type J; Smooth; Black. [See characteristics table.](#)
Design Factor: 5:1

COUPLINGS: GLX™ Couplings [G44 Series]; GLP™ Couplings [G42 Series]; Beaded end with clamp; Aluminum crimp ferrules with GC stem; SAE J2044 Quick-connect stems (Barb must be suitable for rubber hose). [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Exceeds SAE J30R14T2+ (except kink).
Meets Caterpillar CAT 1E4340 (Type A and B) diesel and Bio-Diesel specification.

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1/4	6.4	0.50	12.7	225	15.5	24	3	.10	550	REEL	TT	4EH5100	4219-5651
Black	5/16	7.9	0.56	14.2	225	15.5	24	3	.11	550	REEL	TT	5EH5100	4219-5652
Black	3/8	9.5	0.62	15.7	225	15.5	24	4	.13	550	REEL	TT	6EH5100	4219-5653
Black	1/2	12.7	0.78	19.8	225	15.5	10	6	.19	550	REEL	TT	8EH5100	4219-5654

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PROPER HOSE SELECTION

HOSE FINDER

4219BG Barricade™ Fuel Hose (35-50)

Formerly - Barricade™ Carbureted Engines



RECOMMENDED FOR: Low fuel permeation including gasoline, ethanol blends, 100% methanol (no blends), diesel, biodiesel (including all blends of SME, RME or PME). Not for in-tank or gaseous fuels.

CAUTION: Not for fuel injections systems. (see 4219BF). Not for in-tank or gaseous fuels.

TEMPERATURE: -40°F to +212°F (-40°C to +100°C) for biodiesel up to B100. -40°F to +275°F (-40°C to +125°C) continuous service (excluding biodiesel).

CONSTRUCTION:
Tube: HNBR - Type C1; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Synthetic textile.
Cover: Nitrile - Type C; Smooth; Black. [See characteristics table.](#)
Design Factor: 5:1

COUPLINGS: GLX™ Couplings [G44 Series]; GLP™ Couplings [G42 Series]; Beaded end with clamp; Aluminum crimp ferrules with GC stem; SAE J2044 Quick-connect stems (Barb must be suitable for rubber hose). [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Meets SAE J30R14T1.

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	3/16	4.8	0.41	10.4	50	3.4	24	3	.07	550	REEL	TT	3EH5500	4219-5520
Black	1/4	6.4	0.50	12.7	50	3.4	24	3	.11	550	REEL	TT	4EH5500	4219-5521
Black	5/16	7.9	0.56	14.2	50	3.4	24	3	.11	550	REEL	TT	5EH5500	4219-5522
Black	3/8	9.5	0.62	15.7	50	3.4	24	4	.12	550	REEL	TT	6EH5500	4219-5523
Black	1/2	12.7	0.78	19.8	35	2.4	10	5	.13	550	REEL	TT	8EH5500	4219-5524



4219D Higher Temperature and Pressure Fuel Line Hose



RECOMMENDED FOR: Fuel line and fuel injection for high heat and flexibility. Also suitable for low Pressure hydraulic oil, engine oil, or crank case vent. Not for in-tank or gaseous fuels.

TEMPERATURE: -40°F to +275°F (-40°C to +135°C).

CONSTRUCTION: **Tube:** FKM, backed with Type J (CPE); Black. [See characteristics table.](#)
Reinforcement: Synthetic textile.
Cover: CPE - Type J; Black. [See characteristics table.](#)

COUPLINGS: Hose Bead with Clamp. [Reference the Industrial Hose Coupling Selection Overview.](#)

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1/4	6.4	0.50	12.7	180	12.4	24	3	.10	550	CTN	D	4EH5800	4219-4102
Black	5/16	7.9	0.57	14.5	180	12.4	24	3	.12	550	CTN	D	5EH5800	4219-3656
Black	3/8	9.5	0.62	15.8	180	12.4	24	4	.15	550	CTN	D	6EH5800	4219-3072

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HOSE FINDER

4219G Fuel Line (35-50)

Formerly - 4219G (Fuel Line and Tank Vent)



RECOMMENDED FOR: Fuel line from tank to engine. Also suitable for low pressure hydraulic oil, engine oil, tank vent, crank case vent, or coolant bottle. Not for in-tank, gaseous fuels, or biodiesel above 20% (B20) at 51°C.

CAUTION: Not recommended for fuel injection systems. Not for in-tank, gaseous fuels, or bio-diesel applications above B5 bio-diesel (80°C /176°F).

TEMPERATURE: -40°F to +257°F (-40°C to +125°C) continuous service.

CONSTRUCTION: **Tube:** Nitrile - Type C; Ethanol, Gasoline, Oil Resistant; Black. [See characteristics table.](#)
Reinforcement: Synthetic textile.
Cover: Modified Nitrile - Type C2; Fuel, Oil, Ozone, Heat Resistant; Smooth; Black. [See characteristics table.](#)
Design Factor: 5:1

STANDARDS: Exceeds requirements of SAE 30R6 and SAE 30R7.
Tube: ARPM Class A (High Oil Resistance)

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	5/32	4.1	0.36	9.1	50	3.4	24	2	.05	550	REEL	DD	5/32EH5600	4219-0104
Black	3/16	4.8	0.41	10.4	50	3.4	24	3	.07	550	REEL	DD	3EH5600	4219-0093
Black	1/4	6.4	0.50	12.7	50	3.4	24	3	.10	550	REEL	DD	4EH5600	4219-0103
Black	5/16	7.9	0.56	14.2	50	3.4	24	3	.12	550	REEL	DD	5EH5600	4219-0107
Black	3/8	9.5	0.62	15.7	50	3.4	24	4	.15	550	REEL	DD	6EH5600	4219-0109
Black	1/2	12.7	0.78	19.8	35	2.4	10	5	.18	550	REEL	DD	8EH5600	4219-0102
Black	5/8	15.9	0.94	23.9	35	2.4	10	6	.25	550	REEL	DD	10EH5600	4219-0097
Black	3/4	19.1	1.13	28.7	35	2.4	10	7	.36	200	CTN	YY	12EH5600	4219-0116



C5M Marine Fuel Line Hose

Formerly - C5M Fuel Line (USCG Type A)



RECOMMENDED FOR: Recommended for all commercial and recreational vessel fuel line applications. Suitable for marine diesel, gasoline, B100 Biodiesel, gasohol fuels and hot oil applications.

TEMPERATURE: -4°F to +212°F (-20°C to +100°C) continuous service.

CONSTRUCTION: **Tube:** Nitrile - Type C; Heat, Oil Resistant; Black. [See characteristics table.](#)

Reinforcement: One wire braid.

Cover: Modified Nitrile - Type C2; Flame Resistant; Blue. For all sizes 1/2" or below.

CSM - Type M; Flame Resistant; Blue. For all sizes above 1/2". [See characteristics table.](#)

COUPLINGS: C5 Field Attachable Couplings [G34 Series]; MegaCrimp™ Couplings [G25 Series]. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: SAE J1527, USCG Type A Class 1 Style R3, SAE J1942 HF Type B, SAE 30R2 performance (not construction and dimensional requirements).
Meets MSHA Flame-resistant.

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Blue	1/4	6.4	0.58	14.7	500	34.5	24	1.30	.21	385	REEL	E	70614	3658-1965
Blue	5/16	7.9	0.67	17.0	500	34.5	24	1.30	13.28	50	CTN	T	86596	3658-4596
Blue	5/16	7.9	0.67	17.0	500	34.5	24	1.30	.27	385	REEL	E	70615	3658-1969
Blue	13/32	10.3	0.77	19.6	500	34.5	24	1.80	15.67	50	CTN	T	86597	3658-4597
Blue	13/32	10.3	0.77	19.6	500	34.5	24	1.80	.33	330	REEL	F	70616	3658-1973
Blue	1/2	12.7	0.92	23.4	500	34.5	10	2.30	21.51	50	CTN	T	86598	3658-4598
Blue	1/2	12.7	0.92	23.4	500	34.5	10	2.30	.40	275	REEL	F	70617	3658-1977
Blue	5/8	15.9	1.08	27.4	500	34.5	10	2.80	26.84	50	CTN	T	86599	3658-4599
Blue	5/8	15.9	1.08	27.4	500	34.5	10	2.80	.51	220	REEL	F	70618	3658-1981
Blue	7/8	22.2	1.23	31.2	500	34.5	10	3.50	27.58	50	CTN	T	86600	3658-4600
Blue	7/8	22.2	1.23	31.2	500	34.5	10	3.50	.62	165	REEL	F	70619	3658-1985

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HOSE FINDER

C5C-XH XTreme™ Heat Hydraulic Hose - SAE 100R5



RECOMMENDED FOR: High-temperature lube oil lines for on-highway truck and bus, off-road construction and agricultural vehicles. Recommended for high temperature petroleum based or phosphate ester fluids, turbocharger oil supply, hot lube oil lines and diesel fuel to 212°F (100°C) but not biodiesel above B5 or gasoline. Meets the requirements of SAE 100R5 for hydraulic applications, SAE 1405 hot oil circulation.

TEMPERATURE: -40°F to +302°F (-40°C to 150°C).

CONSTRUCTION: **Tube:** CPE - Type J; Heat, Oil Resistant; Black. [See characteristics table.](#)
Reinforcement: One wire braid.
Cover: Polyester and Textile Braid; Oil, Mildew Resistant; Blue. [See characteristics table.](#)

COUPLINGS: C5 Field Attachable Couplings [G34 Series]; MegaCrimp™ Couplings [G25 Series]. [Reference the Industrial Hose Coupling Selection Overview.](#)

Color	Hose I.D.		Hose O.D.		Max. W.P.		MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(in)	(Lbs.)	(ft)				
Blue	3/16	4.8	0.52	13.2	3000	206.8	3.40	.15	440	REEL	E	70095	3658-0150
	1/4	6.4	0.58	14.7	3000	206.8	3.40	9.30	50	CTN	T	86992	3658-4001
	1/4	6.4	0.58	14.7	3000	206.8	3.40	.19	385	REEL	E	70992	3658-0151
Blue	5/16	7.9	0.67	17.0	2250	155.1	4.00	11.00	50	CTN	T	86993	3658-4002
	5/16	7.9	0.67	17.0	2250	155.1	4.00	.22	385	REEL	E	70993	3658-0152
	13/32	10.3	0.77	19.6	2000	137.9	4.60	12.50	50	CTN	T	86994	3658-4003
Blue	13/32	10.3	0.77	19.6	2000	137.9	4.60	.25	330	REEL	F	70994	3658-0153
	1/2	12.7	0.92	23.4	1750	120.7	5.50	19.14	50	CTN	T	86995	3658-4004
	1/2	12.7	0.92	23.4	1750	120.7	5.50	.38	275	REEL	F	70995	3658-0154
Blue	5/8	15.9	1.08	27.4	1500	103.4	6.50	21.87	50	CTN	T	86996	3658-4005
	5/8	15.9	1.08	27.4	1500	103.4	6.50	.44	220	REEL	F	70996	3658-0155
	7/8	22.2	1.23	31.2	800	55.2	7.40	24.00	50	CTN	T	86997	3658-4006
Blue	7/8	22.2	1.23	31.2	800	55.2	7.40	.48	165	REEL	F	70997	3658-0156
	1 1/8	28.6	1.50	38.1	625	43.1	9.00	31.00	50	CTN	T	86998	3658-4007
	1 1/8	28.6	1.50	38.1	625	43.1	9.00	.52	120	CTN	F	70998	3658-0157

**Marine Master™ Plus Wet Exhaust (15-100) SD**

Formerly - 4684CF (Wet Exhaust)



RECOMMENDED FOR: Engine coolant lower radiator hose where fuel and oil resistance and tight bends or vacuum is required. Also suitable for marine wet exhaust.

TEMPERATURE: -40°F to +212°F (-40°C to +100°C) continuous service.

CONSTRUCTION: **Tube:** Nitrile - Type C; Medium Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: Chloroprene (Neoprene) - Type A; Heat, Oil Resistant; Corrugated; Black with red stripe. [See characteristics table.](#)
Design Factor: 4:1

STANDARDS: Meets requirements of SAE 20R2, SAE 20R5, SAE J2006.

Tube: ARPM Class B (Medium Oil Resistance)

Cover: ARPM Class C (Limited Oil Resistance)

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1	25.4	1.46	37.1	100	6.9	25	3	.51	10	STRT	T	16MM4000	4684-1540
Black	1 1/8	28.6	1.56	39.6	100	6.9	25	4	.56	10	STRT	T	18MM4000	4684-1545
Black	1 1/4	31.8	1.69	42.9	100	6.9	25	4	.61	10	STRT	T	20MM4000	4684-1551
Black	1 1/2	38.1	1.94	49.3	85	5.9	20	4	.70	10	STRT	T	24MM4000	4684-1561
Black	1 5/8	41.3	2.07	52.6	75	5.2	20	5	.75	10	STRT	T	26MM4000	4684-1601
Black	1 3/4	44.5	2.20	55.9	75	5.2	20	5	.80	10	STRT	T	28MM4000	4684-1611
Black	2	50.8	2.45	62.2	62	4.3	20	5	.90	10	CTN	T	32MM4000	4684-1660
Black	2 1/8	54.0	2.58	65.5	55	3.8	20	6	.95	10	CTN	T	34MM4000	4684-1670
Black	2 1/4	57.2	2.71	68.8	55	3.8	20	6	1.00	10	CTN	T	36MM4000	4684-1680
Black	2 3/8	60.3	2.83	71.9	50	3.4	20	7	1.06	10	CTN	T	38MM4000	4684-1690
Black	2 1/2	63.5	2.96	75.2	50	3.4	20	7	1.11	10	CTN	T	40MM4000	4684-1700
Black	3	76.2	3.45	87.6	44	3.0	15	12	1.32	10	CTN	T	48MM4000	4684-1740
Black	3	76.2	3.45	87.6	44	3.0	15	12	1.54	200	PLT	T	48MM4001	4684-1706
Black	3 1/2	88.9	3.95	100.3	35	2.4	15	17	1.50	10	PLT	T	56MM4000	4684-1750
Black	4	101.6	4.46	113.3	30	2.1	10	24	1.65	10	PLT	T	64MM4000	4684-1760
Black	4 1/2	114.3	4.96	126.0	25	1.7	5	27	1.85	10	PLT	T	72MM4000	4684-1764
Black	5	127.0	5.46	138.7	20	1.4	5	30	2.02	10	PLT	T	80MM4000	4684-1766
Black	5	127.0	5.46	138.7	20	1.4	5	30	2.21	200	PLT	T	80MM4001	4684-1709

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HOSE FINDER

MIL Low Pressure Fuel and Oil Hose



RECOMMENDED FOR: Use in fuel, oil, coolant, water and alcohol lines requiring MIL-DTL-6000.

CAUTION: This product is not intended or designed for use in any manned, rotor, or fixed-wing aircraft, even on an emergency or temporary basis.

TEMPERATURE: -40°F to +250°F (-40°C to +121°C). Coolant applications only.

CONSTRUCTION: **Tube:** Chloroprene (Neoprene) - Type A; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Braided, synthetic textile.
Cover: Chloroprene (Neoprene) - Type A; Smooth; Black. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 19 Standard Air Hose; 21 Preformed Band Clamps; 48 Band-It Nipples. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: MIL-DTL-6000
 QPL-6000-16. Test reference MOAMA (MONEB).

Color	Hose I.D.		Hose O.D.		Max. W.P.		MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(in)	(Lbs.)	(ft)				
Black	1 1/2	38.1	1.77	45.0	200	13.8	12	.71	10	CTN	T	24EH6000	3336-0414
Black	1 1/2	38.1	1.77	45.0	200	13.8	12	.71	50	CTN	T	24EH6001	3336-1890
Black	1 3/4	44.5	2.02	51.3	150	10.3	16	.81	10	CTN	T	28EH6000	3336-0419
Black	2	50.8	2.27	57.7	150	10.3	20	.78	10	CTN	T	32EH6000	3336-0424
Black	2	50.8	2.27	57.7	150	10.3	20	.78	50	CTN	T	32EH6001	3336-1891
Black	2 1/4	57.2	2.52	64.0	400	28	20	1.01	10	CTN	T	36EH6000	3336-0429
Black	2 1/2	63.5	2.77	70.4	400	28	25	1.10	10	CTN	T	40EH6000	3336-0434
Black	2 1/2	63.5	2.77	70.4	400	28	25	1.10	50	CTN	T	40EH6001	3336-1897
Black	3 1/2	88.9	3.81	96.8	90	6.2	42	1.82	10	CTN	T	56EH6000	3336-0459
Black	4	101.6	4.30	109.2	75	5.2	48	1.78	10	CTN	T	64EH6000	3336-0457

**4175EC Coolant Hose**

Formerly - 75W



- RECOMMENDED FOR:** Engine coolant hose such as radiator and heater hoses or connectors. Also suitable for air and water.
- CAUTION:** Not for conveying fuel and oil.
- TEMPERATURE:** -40°F to +257°F (-40°C to +125°C) continuous for coolant and +212°F (+100°C) maximum for conveying air.
- CONSTRUCTION:** **Tube:** EPDM - Type P; Limited Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile.
Cover: EPDM - Type P; Heat, Ozone Resistant; Smooth; Black. [See characteristics table.](#)
Design Factor: 4:1
- COUPLINGS:** 1 Long Shank; 5 Brass Pin Lug; 6 Malleable Iron Pin Lug; 7 Combination Nipple. [Reference the Industrial Hose Coupling Selection Overview.](#)
- STANDARDS:** SAE 20R1 EC Class D2, standard wall. Wall thickness is 4.95 +/- 0.65mm (0.195 +/- 0.25") excluding lap area.
Cover: ARPM Class C (Limited Oil Resistance)

Color	Hose I.D. (in)	Hose I.D. (mm)	Hose O.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	3/4	19.1	1.14	29.0	80	5.5	8	6	.37	50	PLT	T	12EH1100	4175-0855
Black	7/8	22.2	1.26	32.0	75	5.2	7	7	.39	50	PLT	T	14EH1100	4175-0856
Black	1	25.4	1.39	35.3	138	9.5	7	8	.42	50	PLT	T	16EH1100	4175-0857
Black	1 1/8	28.6	1.52	38.6	125	8.6	6	8	.47	50	PLT	T	18EH1100	4175-0859
Black	1 1/4	31.8	1.64	41.7	100	6.9	5	12	.51	50	PLT	T	20EH1100	4175-0861
Black	1 3/8	34.9	1.76	44.7	100	6.9	4	12	.56	50	PLT	T	22EH1100	4175-0863
Black	1 1/2	38.1	1.89	48.0	100	6.9	3	12	.60	50	PLT	T	24EH1100	4175-0865
Black	1 5/8	41.3	2.02	51.3	88	6.1	2	15	.63	50	PLT	T	26EH1100	4175-0867
Black	1 3/4	44.5	2.14	54.4	75	5.2	1	15	.67	50	PLT	T	28EH1100	4175-0869
Black	1 7/8	47.6	2.26	57.4	75	5.2	—	—	.72	50	PLT	T	30EH1100	4175-0871
Black	2	50.8	2.39	60.7	62	4.3	—	—	.76	50	PLT	T	32EH1100	4175-0872
Black	2 1/8	54.0	2.52	64.0	62	4.3	—	—	.79	50	PLT	T	34EH1100	4175-0873
Black	2 1/4	57.2	2.64	67.1	62	4.3	—	—	.84	50	PLT	T	36EH1100	4175-0874
Black	2 3/8	60.3	2.76	70.1	62	4.3	—	—	.88	50	PLT	T	38EH1100	4175-0875
Black	2 1/2	63.5	2.89	73.4	62	4.3	—	—	.92	50	PLT	T	40EH1100	4175-0876
Black	2 5/8	66.7	3.02	76.7	62	4.3	—	—	.96	50	PLT	T	42EH1100	4175-0877
Black	2 3/4	69.9	3.14	79.8	62	4.3	—	—	1.00	50	PLT	T	44EH1100	4175-0878
Black	2 7/8	73.0	3.26	82.8	56	3.9	—	—	1.05	50	PLT	T	46EH1100	4175-0879
Black	3	76.2	3.39	86.1	50	3.4	—	—	1.09	50	PLT	T	48EH1100	4175-0880
Black	3 1/2	88.9	3.89	98.8	18	1.2	—	—	1.18	50	PLT	T	56EH1100	4175-0883
Black	4	101.6	4.39	111.5	12	.8	—	—	1.34	50	PLT	T	64EH1100	4175-0886
Black	4 1/2	114.3	4.89	124.2	12	.8	—	—	1.52	50	PLT	T	72EH1100	4175-0889
Black	6	152.4	6.42	163.1	12	.8	—	—	2.00	50	PLT	T	96EH1100	4175-0902

NOTE: If Minimum Bend Radius is required, use 8 times the O.D. as a guide. For missing Vacuum values, no specification is required.

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CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

HOSE FINDER

4176HD Coolant Hose

Formerly - 76W



- RECOMMENDED FOR:** Engine coolant hose such as radiator and heater hoses or connectors. Also suitable for air or water.
- CAUTION:** Not for conveying fuel and oil.
- TEMPERATURE:** -40°F to +257°F (-40°C to +125°C) continuous for coolant and +212°F (+100°C) maximum for conveying air.
- CONSTRUCTION:** **Tube:** EPDM - Type P; Limited Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile.
Cover: EPDM - Type P; Heat, Ozone Resistant; Smooth; Black. [See characteristics table.](#)
Design Factor: 4:1
- COUPLINGS:** 1 Long Shank; 5 Brass Pin Lug; 6 Malleable Iron Pin Lug; 7 Combination Nipple. [Reference the Industrial Hose Coupling Selection Overview.](#)
- STANDARDS:** SAE 20R1 Class D2, heavy wall. Wall thickness is 6.45 +/- 0.65mm (0.255 +/- 0.025") excluding lap area.
Cover: ARPM Class C (Limited Oil Resistance)

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	7/8	22.2	1.38	35.1	175	12.1	15	7	.58	50	PLT	T	14EH1500	4176-0856
Black	1	25.4	1.51	38.4	175	12.1	10	8	.62	50	PLT	T	16EH1500	4176-0857
Black	1 1/8	28.6	1.63	41.4	175	12.1	10	8	.68	50	PLT	T	18EH1500	4176-0859
Black	1 1/4	31.8	1.76	44.7	125	8.6	10	12	.70	50	PLT	T	20EH1500	4176-0861
Black	1 3/8	34.9	1.88	47.8	110	7.6	10	12	.76	50	PLT	T	22EH1500	4176-0863
Black	1 1/2	38.1	2.01	51.1	112	7.7	10	12	.81	50	PLT	T	24EH1500	4176-0865
Black	1 5/8	41.3	2.13	54.1	106	7.3	7	14	.87	50	PLT	T	26EH1500	4176-0867
Black	1 3/4	44.5	2.26	57.4	400	28	5	15	.93	50	PLT	T	28EH1500	4176-0869
Black	1 7/8	47.6	2.38	60.5	94	6.5	4	—	.98	50	PLT	T	30EH1500	4176-0871
Black	2	50.8	2.51	63.8	88	6.1	3	—	1.00	50	PLT	T	32EH1500	4176-0872
Black	2 1/4	57.2	2.76	70.1	88	6.1	1	—	1.03	50	PLT	T	36EH1500	4176-0874
Black	2 3/8	60.3	2.88	73.2	81	5.6	—	—	1.07	50	PLT	T	38EH1500	4176-0875
Black	2 1/2	63.5	3.01	76.5	75	5.2	—	—	1.09	50	PLT	T	40EH1500	4176-0876
Black	2 5/8	66.7	3.13	79.5	69	4.8	—	—	1.16	50	PLT	T	42EH1500	4176-0877
Black	2 7/8	73.0	3.38	85.9	63	4.3	—	—	1.26	50	PLT	T	46EH1500	4176-0879
Black	3	76.2	3.51	89.2	63	4.3	—	—	1.30	50	PLT	T	48EH1500	4176-0880
Black	3 1/2	88.9	4.01	101.9	50	3.4	—	—	1.50	50	PLT	T	56EH1500	4176-0883
Black	4	101.6	4.51	114.6	38	2.6	—	—	1.69	50	PLT	T	64EH1500	4176-0886

NOTE: If Minimum Bend Radius is required, use 8 times the O.D. as a guide.



4169A Coolant Hose



RECOMMENDED FOR: Engine coolant hose such as radiator and heater hoses or connectors, particularly for oily conditions.

TEMPERATURE: -40°F to +212°F (-40°C to +100°C).

CONSTRUCTION: **Tube:** Nitrile - Type C; Heat, Oil Resistant; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile.
Cover: Chloroprene (Neoprene) - Type A; Smooth; Black. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 1 Long Shank; 5 Brass Pin Lug; 6 Malleable Iron Pin Lug; 7 Combination Nipple. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: SAE 20R1 Class B tube and Class C cover, standard wall. Wall thickness is 4.95 +/- 0.65mm (0.195 +/- 0.25") excluding lap area.

Color	Hose I.D. (in)	Hose I.D. (mm)	Hose O.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	3/4	19.1	1.14	29.0	150	10.3	8	10	.34	3	CTN	T	12EH1000	4169-0210
Black	7/8	22.2	1.26	32.0	150	10.3	7	11	.38	3	CTN	T	14EH1000	4169-0220
Black	1	25.4	1.39	35.3	135	9.3	7	12	.43	3	CTN	T	16EH1000	4169-0224
Black	1 1/8	28.6	1.55	39.4	135	9.3	6	13	.48	3	CTN	T	18EH1000	4169-0240
Black	1 1/4	31.8	1.64	41.7	400	28	5	14	.51	3	CTN	T	20EH1000	4169-0246
Black	1 3/8	34.9	1.76	44.7	400	28	4	25	.56	3	CTN	T	22EH1000	4169-0260
Black	1 1/2	38.1	1.89	48.0	400	28	3	30	.60	3	CTN	T	24EH1000	4169-0270
Black	1 5/8	41.3	2.02	51.3	85	5.9	2	—	.63	3	CTN	T	26EH1000	4169-0280
Black	1 3/4	44.5	2.14	54.4	75	5.2	1	—	.68	3	CTN	T	28EH1000	4169-0288
Black	1 7/8	47.6	2.26	57.4	75	5.2	—	—	.73	3	CTN	T	30EH1000	4169-0300
Black	2	50.8	2.39	60.7	60	4.1	—	—	.77	3	CTN	T	32EH1000	4169-0484
Black	2 1/8	54.0	2.52	64.0	60	4.1	—	—	.88	3	CTN	T	34EH1000	4169-0320
Black	2 1/4	57.2	2.64	67.1	60	4.1	—	—	.93	3	CTN	T	36EH1000	4169-0491
Black	2 3/8	60.3	2.76	70.1	60	4.1	—	—	.97	3	CTN	T	38EH1000	4169-0340
Black	2 1/2	63.5	2.89	73.4	60	4.1	—	—	1.02	3	CTN	T	40EH1000	4169-0345
Black	2 5/8	66.7	3.02	76.7	60	4.1	—	—	1.07	3	CTN	T	42EH1000	4169-0360
Black	2 3/4	69.9	3.14	79.8	60	4.1	—	—	1.12	3	CTN	T	44EH1000	4169-0362
Black	2 7/8	73.0	3.26	82.8	55	3.8	—	—	1.16	3	CTN	T	46EH1000	4169-0376
Black	3	76.2	3.39	86.1	50	3.4	—	—	1.20	3	CTN	T	48EH1000	4169-0383
Black	3 1/2	88.9	3.89	98.8	10	.7	—	—	1.40	3	CTN	T	56EH1000	4169-0420
Black	4	101.6	4.39	111.5	10	.7	—	—	1.69	3	CTN	T	64EH1000	4169-0425
Black	4 1/2	114.3	4.89	124.2	10	.7	—	—	1.90	3	CTN	T	72EH1000	4169-0433

NOTE: If Minimum Bend Radius is required, use 8 times the O.D. as a guide.

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CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

HOSE FINDER

Wire Inserted Green Stripe™ Coolant Hose and Air Hose



RECOMMENDED FOR: Engine coolant or water hose where tight bends or vacuum is required. Also suitable for air.

CAUTION: Not for conveying fuel and oil.

TEMPERATURE: -40°F to +257°F (-40°C to +125°C) continuous service.

CONSTRUCTION: **Tube:** EPDM - Type P; Limited Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: EPDM - Type P; Smooth; Black with green stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 1 Long Shank; 5 Brass Pin Lug; 6 Malleable Iron Pin Lug; 7 Combination Nipple. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: SAE 20R1 Class B tube and Class C cover, standard wall. Wall thickness is 4.95 +/- 0.65mm (0.195 +/- 0.25") excluding lap area.

Tube: SAE D1, D2, D3 except air aging
Cover: SAE D1 and D2

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1	25.4	1.46	37.1	100	6.9	25	2	2.50	5	CTN	T	24916	4685-2016
Black	1 1/8	28.6	1.58	40.1	100	6.9	25	3	5.30	5	CTN	T	24918	4685-2018
Black	1 1/4	31.8	1.71	43.4	100	6.9	25	3	3.13	5	CTN	T	24920	4685-2020
Black	1 3/8	34.9	1.83	46.5	85	5.9	25	3	3.25	5	CTN	T	24922	4685-2022
Black	1 1/2	38.1	1.96	49.8	85	5.9	20	4	3.62	5	CTN	T	24924	4685-2024
Black	1 3/4	44.5	2.21	56.1	75	5.2	20	4	5.07	5	CTN	T	24928	4685-2028
Black	2	50.8	2.46	62.5	60	4.1	20	5	5.07	5	CTN	T	24932	4685-2032
Black	2 1/4	57.2	2.71	68.8	55	3.8	20	6	5.62	5	CTN	T	24936	4685-2036
Black	2 3/8	60.3	2.83	71.9	50	3.4	20	7	5.91	5	CTN	T	24938	4685-2038
Black	2 1/2	63.5	2.96	75.2	50	3.4	20	7	6.15	5	CTN	T	24940	4685-2040
Black	2 7/8	73.0	3.33	84.6	40	2.8	15	9	7.01	5	CTN	T	24946	4685-2046
Black	3 1/2	88.9	3.93	99.8	35	2.4	15	12	7.56	5	CTN	T	24956	4685-2056
Black	4	101.6	4.43	112.5	30	2.1	10	20	8.57	5	CTN	T	24964	4685-2064
Black	6	152.4	6.43	163.3	15	1.0	5	30	15.00	5	CTN	T	24996	4685-2096



Engine Coolant Silicone



RECOMMENDED FOR: Engine coolant hose to withstand temperature extremes. Also suitable for air or water.

CAUTION: Not for conveying fuel and oil.

TEMPERATURE: -65°F to +347°F (-54°C to +175°C).

CONSTRUCTION: **Tube:** Silicone - Type MQ; Limited Oil Resistance; Orange. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile.
Cover: Silicone - Type MQ; Smooth; Green. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 1 Long Shank; 5 Brass Pin Lug; 6 Malleable Iron Pin Lug; 7 Combination Nipple. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: SAE 20R1 Class A, standard wall. Wall thickness is 4.95 +/- 0.65mm (0.195 +/- 0.25") excluding lap area.

Color	Hose I.D. (in)	Hose O.D. (mm)	Hose I.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (in. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Green	1	25.4	1.39	35.3	90	6.2	7	12	.40	10	CTN	T	16EH1700	4171-0213
Green	1 1/8	28.6	1.52	38.6	90	6.2	6	13	.44	10	CTN	T	18EH1700	4171-0217
Green	1 1/4	31.8	1.64	41.7	85	5.9	5	14	.48	10	CTN	T	20EH1700	4171-0265
Green	1 3/8	34.9	1.76	44.7	85	5.9	4	26	.52	10	CTN	T	22EH1700	4171-0260
Green	1 1/2	38.1	1.89	48.0	85	5.9	3	30	.57	10	CTN	T	24EH1700	4171-0270
Green	2	50.8	2.39	60.7	75	5.2	—	—	.73	10	CTN	T	32EH1700	4171-0285
Green	2 1/8	54.0	2.52	64.0	75	5.2	—	—	.77	10	CTN	T	34EH1700	4171-0224
Green	2 1/2	63.5	2.89	73.4	65	4.5	—	—	.96	10	CTN	T	40EH1700	4171-0234
Green	3	76.2	3.39	86.1	50	3.4	—	—	1.17	10	CTN	T	48EH1700	4171-0246
Green	3 1/4	82.6	3.64	92.5	40	2.8	—	—	1.27	10	CTN	T	52EH1700	4171-0249
Green	3 1/2	88.9	3.89	98.8	35	2.4	—	—	1.36	10	CTN	T	56EH1700	4171-0241
Green	3 3/4	95.3	4.14	105.2	35	2.4	—	—	1.44	10	CTN	T	60EH1700	4171-0835

NOTE: If Minimum Bend Radius is required, use 8 times the O.D. as a guide.

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PROPER HOSE SELECTION

HOSE FINDER

4230T Coolant Hose



RECOMMENDED FOR: Engine coolant hose such as cab heater or oil cooler. Also suitable for air or water.

CAUTION: Not for conveying fuel and oil.

TEMPERATURE: -40°F to +257°F (-40°C to +125°C).

CONSTRUCTION: **Tube:** EPDM - Type P; Limited Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Synthetic textile.
Cover: EPDM - Type P; Smooth; Black. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 1 Long Shank; 5 Brass Pin Lug; 6 Malleable Iron Pin Lug; 7 Combination Nipple. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: SAE 20R3 Class D2 except hardness (70–85 Shore A durometer).

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	5/16	7.9	0.62	15.7	63	4.34	10	3	.15	700	REEL	YY	5EH1600	4230-0193
Black	3/8	9.5	0.69	17.5	63	4.34	10	3	.17	500	CTN	YY	6EH1600	4230-0129
Black	1/2	12.7	0.81	20.6	63	4.34	10	4	.23	700	REEL	YY	8EH1600	4230-0060
Black	5/8	15.9	0.94	23.9	63	4.34	8	7	.25	300	REEL	FF	10EH1600	4230-0135
Black	3/4	19.1	1.06	26.9	50	3.45	7	8	.29	200	CTN	YY	12EH1600	4230-0134
Black	1	25.4	1.34	34.0	44	3.03	6	10	.40	600	REEL	YY	16EH1600	4230-0150



4663K Fuel Fill Hose - Corrugated

Formerly - 4663K (Fuel Fill - Corrugated)



RECOMMENDED FOR: Fuel or oil fill or cross-over hose where tight bends or vacuum resistance is required. Also suitable with biodiesel to B20 for intermittent contact.

TEMPERATURE: -40°F to +212°F (-40°C to +100°C) continuous service.

CONSTRUCTION: **Tube:** Nitrile - Type C; Heat, Oil Resistant; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: Chloroprene (Neoprene) - Type A; Corrugated; Black. [See characteristics table.](#)
Design Factor: 4:1

STANDARDS: Meets requirements of SAE 30R5.

Tube: ARPM Class B (Medium Oil Resistance)

Cover: ARPM Class C (Limited Oil Resistance)

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(in. Hg)	(in)	(Lbs.)	(ft)				
Black	1 3/8	34.9	1.63	41.4	20	1.4	30	5	.38	10	CTN	T	22EH5700	4663-2828
Black	1 7/8	47.6	2.14	54.4	20	1.4	30	6	.50	10	CTN	T	30EH5700	4663-2933
Black	2	50.8	2.25	57.2	20	1.4	30	7	.53	10	CTN	T	32EH5700	4663-2930
Black	2 1/4	57.2	2.50	63.5	20	1.4	30	8	.59	10	CTN	T	36EH5700	4663-2932
Black	3	76.2	3.27	83.1	20	1.4	30	15	.84	10	CTN	T	48EH5700	4663-3625

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PROPER HOSE SELECTION

HOSE FINDER

Windshield Washer And Vacuum Hose (Non-Reinforced)



RECOMMENDED FOR: Windshield washer lines and engine vacuum lines. Also suitable for coolant overflow or vent, or pressure sensor tubing. Not for conveying fuel or oil.

TEMPERATURE: -40°F to +257°F (-40°C to +125°C) continuous service.

CONSTRUCTION: **Tube:** EPDM - Type P; Heat Resistant; Black. [See characteristics table.](#)
Reinforcement: None.
Cover: EPDM - Type P; Smooth; Black. [See characteristics table.](#)
Design Factor: NR

STANDARDS: Tested to SAE J1037.

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length			Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ea)	Std. Pack	Pkg Code		
Black	7/64	2.8	0.22	5.6	25	1.7	24	2	1.00	50	CTN	T	27041	4040-4101
Black	5/32	4.1	0.31	7.9	25	1.7	24	2	2.24	50	CTN	T	27042	4040-4104
Black	7/32	5.7	0.42	10.7	25	1.7	24	2	3.66	50	CTN	T	27043	4040-4107
Black	1/4	6.4	0.45	11.4	25	1.7	24	2	3.95	50	CTN	T	27044	4040-4110
Black	5/16	7.9	0.50	12.7	25	1.7	24	3	1.74	25	CTN	T	27050	4040-4112
Black	3/8	9.5	0.63	16.0	25	1.7	24	3	3.60	25	CTN	T	27053	4040-4113



Nylon Air Brake Tubing



RECOMMENDED FOR: Truck, bus and mobile air brake, and service lines where heat and battery acids are not present.

TEMPERATURE: -40°F to +200°F (-40°C to +93°C).

CONSTRUCTION: **Tube:** Heat/Light Stabilized Seamless Extruded Nylon. [See characteristics table.](#)
Reinforcement: Nylon - Type A.
Cover: Nylon. [See characteristics table.](#)

COUPLINGS: Compression; SureLok™ Couplings. [Reference the Industrial Hose Coupling Selection Overview.](#)

Color	Hose O.D.		Max. W.P.		MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(psi)	(Bar)	(in)	(Lbs.)	(ft)				
Black	1/8	3.2	150	10.34	0.37	.45	100	CTN	T	H30002-02	4327-0049
Black	1/8	3.18	150	10.34	0.37	.01	1000	REEL	T	H30000-02	4327-0117
Black	5/32	3.97	150	10.34	0.50	.70	100	CTN	T	H30002-25	4327-0050
Black	3/16	4.76	150	10.34	0.75	.85	100	CTN	T	H30002-03	4327-0051
Black	1/4	6.35	150	10.34	1.00	1.30	100	CTN	T	H30002-04	4327-0052
Black	1/4	6.35	150	10.34	1.00	.01	1000	REEL	T	H30000-04	4327-0101
Black	5/16	7.9	150	10.34	1.25	1.60	100	CTN	T	H30002-05	4327-0053
Black	5/16	7.9	150	10.34	1.25	.02	1000	REEL	T	H30000-05	4327-0120
Black	3/8	9.4	150	10.34	1.50	2.95	100	CTN	T	H30002-06	4327-0054
Black	3/8	9.4	150	10.34	1.50	.03	1000	REEL	T	H30005-06	4327-0126
Black	3/8	9.4	150	10.34	1.50	.03	1000	REEL	T	H30000-06	4327-0201
Black	1/2	12.7	150	10.34	2.00	3.90	100	CTN	T	H30002-08	4327-0055
Black	1/2	12.7	150	10.34	2.00	.04	1000	REEL	T	H30000-08	4327-0112
Black	5/8	15.9	150	10.34	2.50	3.45	50	CTN	T	H30003-10	4327-0056
Black	5/8	15.9	150	10.34	2.50	.08	1000	REEL	T	H30000-10	4327-0115
Black	3/4	19.1	150	10.34	3.00	4.35	50	CTN	T	H30003-12	4327-0057
Black	3/4	19.1	150	10.34	3.00	.09	1000	REEL	T	H30000-12	4327-0116
Blue	1/4	6.35	150	10.34	1.00	1.25	100	CTN	T	H30062-04	4327-0068
Blue	1/4	6.35	150	10.34	1.00	.01	1000	REEL	T	H30060-04	4327-0102
Blue	1/4	6.35	150	10.34	1.00	.02	1000	REEL	T	H30061-04	4327-1001
Blue	3/8	9.4	150	10.34	1.25	2.90	100	CTN	T	H30062-06	4327-0069
Blue	3/8	9.4	150	10.34	1.25	.03	1000	REEL	T	H30065-06	4327-0128
Blue	3/8	9.4	150	10.34	1.25	.03	1000	REEL	T	H30060-06	4327-1002
Blue	1/2	12.7	150	10.34	2.00	4.10	100	CTN	T	H30062-08	4327-0070
Blue	1/2	12.7	150	10.34	2.00	.04	1000	REEL	T	H30065-08	4327-0133
Blue	5/8	15.9	150	10.34	2.50	3.45	50	CTN	T	H30063-10	4327-0071
Blue	3/4	19.1	150	10.34	3.00	4.35	50	CTN	T	H30063-12	4327-0072
Brown	1/4	6.35	150	10.34	1.00	.01	1000	REEL	T	H30010-04	4327-0103
Brown	3/8	9.4	150	10.34	1.25	.03	1000	REEL	T	H30010-06	4327-0109
Green	1/4	6.35	150	10.34	1.00	1.25	100	CTN	T	H30042-04	4327-0058
Green	1/4	6.35	150	10.34	1.00	.01	1000	REEL	T	H30040-04	4327-0104
Green	3/8	9.4	150	10.34	1.25	2.85	100	CTN	T	H30042-06	4327-0059
Green	3/8	9.4	150	10.34	1.25	.03	1000	REEL	T	H30045-06	4327-0129
Green	3/8	9.4	150	10.34	1.25	.04	1000	REEL	T	H30040-06	4327-1003
Green	1/2	12.7	150	10.34	2.00	4.10	100	CTN	T	H30042-08	4327-0060
Green	1/2	12.7	150	10.34	2.00	.04	1000	REEL	T	H30045-08	4327-0132
Green	5/8	15.9	150	10.34	3.50	3.50	50	CTN	T	H30043-10	4327-0061
Green	5/8	15.9	150	10.34	3.50	.07	1000	REEL	T	H30040-10	4327-1006
Green	3/4	19.1	150	10.34	3.00	4.45	50	CTN	T	H30043-12	4327-0062
Orange	1/4	6.35	150	10.34	1.00	1.25	100	CTN	T	H30082-04	4327-0078
Orange	3/8	9.4	150	10.34	1.25	2.85	100	CTN	T	H30082-06	4327-0079

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HOSE FINDER

TECHNICAL DATA

Nylon Air Brake Tubing (Continued)

Color	Hose O.D.		Max. W.P.		MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(psi)	(Bar)	(in)	(Lbs.)	(ft)				
Orange	3/8	9.4	150	10.34	1.25	.04	1000	REEL	T	H30080-06	4327-1004
	1/2	12.7	150	10.34	2.00	4.15	100	CTN	T	H30082-08	4327-0080
	5/8	15.9	150	10.34	2.50	3.50	50	CTN	T	H30083-10	4327-0081
Orange	5/8	15.9	150	10.34	2.50	.08	1000	REEL	T	H30080-10	4327-0138
	3/4	19.1	150	10.34	3.00	4.40	50	CTN	T	H30083-12	4327-0082
Purple	1/4	6.35	150	10.34	1.00	.01	1000	REEL	T	H30030-04	4327-0125
	1/4	6.35	150	10.34	1.00	1.25	100	CTN	T	H30052-04	4327-0063
	1/4	6.35	150	10.34	1.00	.01	1000	REEL	T	H30050-04	4327-0105
	3/8	9.4	150	10.34	1.25	2.85	100	CTN	T	H30052-06	4327-0064
Red	3/8	9.4	150	10.34	1.25	.03	1000	REEL	T	H30055-06	4327-0127
	3/8	9.4	150	10.34	1.25	.03	1000	REEL	T	H30050-06	4327-1005
	1/2	12.7	150	10.34	2.00	4.10	100	CTN	T	H30052-08	4327-0065
Red	1/2	12.7	150	10.34	2.00	.04	1000	REEL	T	H30055-08	4327-0131
	5/8	15.9	150	10.34	3.50	3.50	50	CTN	T	H30053-10	4327-0066
Red	5/8	15.9	150	10.34	3.50	.08	1000	REEL	T	H30050-10	4327-1007
	3/4	19.1	150	10.34	3.00	4.30	50	CTN	T	H30053-12	4327-0067
Silver	1/4	6.35	150	10.34	1.00	.01	1000	REEL	T	H30090-04	4327-0106
	1/2	12.7	150	10.34	2.00	.04	1000	REEL	T	H30090-08	4327-0114
White	3/8	9.4	150	10.34	1.25	.03	1000	REEL	T	H30020-06	4327-0110
Yellow	1/4	6.35	150	10.34	1.00	1.30	100	CTN	T	H30072-04	4327-0073
	1/4	6.35	150	10.34	1.00	.01	1000	REEL	T	H30070-04	4327-0107
	3/8	9.4	150	10.34	1.25	2.85	100	CTN	T	H30072-06	4327-0074
Yellow	3/8	9.4	150	10.34	1.25	.03	1000	REEL	T	H30070-06	4327-0111
	1/2	12.7	150	10.34	2.00	4.20	100	CTN	T	H30072-08	4327-0075
	5/8	15.9	150	10.34	2.50	3.55	50	CTN	T	H30073-10	4327-0076
	3/4	19.1	150	10.34	3.00	4.55	50	CTN	T	H30073-12	4327-0077

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AND GENERAL APPLICATION INFORMATION

Ratings are for normal or usual range of the specified compounds. Many are modified to meet the needs of specific applications.

PLEASE READ AND OBSERVE ALL WARNINGS AND CAUTION STATEMENTS THROUGHOUT THIS CATALOG.

Gates Type	Common Name or Trade Name	Elastomer	Weather / Ozone	Abrasion
C2	Modified Nitrile	Acrylonitrile Butadiene	Good	Good
C4	Modified Carboxylated Nitrile	Carboxylated Nitrile	Good	Excellent
D	Gum Rubber, Buna-S	Natural Rubber or Styrene Butadiene	Poor	Excellent
G	PVC	Polyvinyl Chloride (plasticized)	Excellent	Very Good
L	UHMWPE	Ultra-High Molecular Weight Polyethylene	Very Good	Excellent
P	EPDM	Ethylene Propylene Diene	Excellent	Good
S	Sanitron™	Thermoplastic Vulcanizate	Good	Good
T	FEP	Fluorinated Polyethylene	Excellent	Very Good

NOTE: Ratings are for general or typical elastomer formulations. Some hoses have special formulations that change the performance of these characteristics to be more suitable for certain applications, such as improved temperature range. For selection assistance, refer to product catalog pages and also the Hose Finder and Chemical Resistance sections at the back of this catalog.

Contact Gates Product Application Engineering - 303-744-5070 - fppasupport@gates.com

Hose Family Name	Tube Type	Cover Type	Smooth or Corrugated	Crush Resistant	Water Base Liquid	Oil-Base Liquid	Dry Goods	Temp Min/Max
Food Master™ XTreme™ 250 SD CR	Sanitron™	EPDM	Smooth	Yes	Yes	-	-	-40°F/230°F
Food Master Beverage 250 SD CR	Sanitron	EPDM	Smooth	Yes	Yes	-	-	-40°F/230°F
Food Master Beverage 150 SD CR	Sanitron	EPDM	Smooth	Yes	Yes	-	-	-40°F/212°F
Food Master Beverage MegaTuff™ CR	Sanitron	UHMW	Corrugated	Yes	Yes	-	-	-40°F/212°F
Food Master Oils and Dairy 150 SD	Modified Nitrile	Modified Nitrile	Both	-	-	Yes	-	-40°F/230°F
Food Master Oils and Dairy 150 D	Modified Nitrile	Modified Nitrile	Smooth	-	-	Yes	-	-40°F/230°F
Food Master Oils and Dairy MegaFlex™	Modified Nitrile	Modified Nitrile	Corrugated	-	-	Yes	-	-40°F/230°F
Food Master Dry Goods (50-150) D	Buna-S	EPDM	Corrugated	-	-	-	Yes	-40°F/150°F
Food Master Dry Goods (25-40) D	Buna-S	Buna-S	Smooth	-	-	-	Yes	-40°F/150°F
Food Master PVC Dry Goods	PVC	PVC	Corrugated	Yes	-	-	Yes	-10°F/130°F
Food Master PVC Tubing	PVC	PVC	Smooth	-	Yes	Yes	-	-25°F/150°F
Food Master PVC Clear Tubing Braid	PVC	PVC	Smooth	-	Yes	Yes	-	-10°F/130°F
Food Master PVC SD Clear	PVC	PVC	Both	Yes	Yes	Yes	Yes	-10°F/130°F
*Chem Master™ XTreme™ FEP SD	FEP	EPDM	Corrugated	Both	Yes	Yes	-	-40°F/300°F
*Chem Master Plus UHMWPE SD	UHMW	EPDM	Corrugated	Both	Yes	Yes	Yes	-40°F/212°F

* See Chemical Section for hose selection details.

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PROPER HOSE SELECTION

HOSE FINDER

Food Master™ XTreme™ Hose 250SD CR

Formerly - Food & Beverage Master™



RECOMMENDED FOR: Transfer of milk, juice, beer, soft drinks, pharmaceuticals, cosmetics or water-based products requiring a FDA sanitary hose. Also suitable for many dry bulk products via suction, pneumatic or gravity where a sanitary hose is required.

TEMPERATURE: -40°F to +230°F (-40°C to +110°C) continuous service.

CONSTRUCTION: **Tube:** Sanitron - Type S; Hi Temperature Food Grade; White. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, monofilament helix, static filament.
Cover: EPDM - Type P; Crush Resistant; Smooth with burgundy stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 1 Long Shank (Or stainless steel); 8 Tri-Lokt (Or stainless steel); 34 Stainless Steel Nipples; 71 Permanent Swaged or Crimped. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Meets FDA requirements, 3A-Class 3 and USDA.

	Hose I.D.	⊖	Hose O.D.	⊖	Max. W.P.	⊖	Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Blue	1	25.4	1.48	37.6	250	17.2	30	3	.95	100	PLT	T	16FD3000	3132-0911
Blue	1 1/2	38.1	2.07	52.6	250	17.2	30	5	.94	100	PLT	T	24FD3000	3132-0907
Blue	2	50.8	2.62	66.5	250	17.2	30	6	1.17	200	PLT	T	32FD3001	3132-0205
Blue	3	76.2	3.86	98.0	250	17.2	30	18	2.44	100	PLT	T	48FD3000	3132-0912
Blue	4	101.6	4.88	124.0	250	17.2	30	36	3.21	100	PLT	T	64FD3000	3132-0913
Gray	1	25.4	1.48	37.6	250	17.2	30	3	.52	100	PLT	T	16FD3001	3132-0264
Gray	1 1/2	38.1	2.07	52.6	250	17.2	30	5	.90	100	PLT	T	24FD3001	3132-0265
Gray	1 1/2	38.1	2.07	52.6	250	17.2	30	5	.90	200	PLT	T	24FD3002	3132-0066
Gray	2	50.8	2.62	66.5	250	17.2	30	6	1.21	100	PLT	T	32FD3002	3132-0266
Gray	2 1/2	63.5	3.25	82.6	250	17.2	30	12	1.81	200	PLT	T	40FD3001	3132-0067
Gray	3	76.2	3.86	98.0	250	17.2	30	18	2.46	100	PLT	T	48FD3001	3132-0268
Gray	4	101.6	4.88	124.0	250	17.2	30	36	3.24	100	PLT	T	64FD3001	3132-0269
White	3/4	19.1	1.22	31.0	250	17.2	30	2	.42	50	PLT	T	12FD3001	3132-5022
White	3/4	19.1	1.22	31.0	250	17.2	30	2	.42	100	PLT	T	12FD3002	3132-0222
White	1	25.4	1.48	37.6	250	17.2	30	3	.52	50	PLT	T	16FD3002	3132-5023
White	1	25.4	1.48	37.6	250	17.2	30	3	.52	100	PLT	T	16FD3003	3132-0216
White	1 1/2	38.1	2.07	52.6	250	17.2	30	5	.90	50	PLT	T	24FD3003	3132-5024
White	1 1/2	38.1	2.07	52.6	250	17.2	30	5	.90	100	PLT	T	24FD3004	3132-0217
White	1 1/2	38.1	2.07	52.6	250	17.2	30	5	.89	200	PLT	T	24FD3005	3132-0223
White	2	50.8	2.62	66.5	250	17.2	30	6	1.20	50	PLT	T	32FD3003	3132-5025
White	2	50.8	2.62	66.5	250	17.2	30	6	1.19	100	PLT	T	32FD3004	3132-0218
White	2 1/2	63.5	3.25	82.6	250	17.2	30	12	1.81	50	PLT	T	40FD3002	3132-5026
White	2 1/2	63.5	3.25	82.6	250	17.2	30	12	1.82	100	PLT	T	40FD3003	3132-0219
White	3	76.2	3.86	98.0	250	17.2	30	18	2.46	50	PLT	T	48FD3002	3132-5027
White	3	76.2	3.86	98.0	250	17.2	30	18	2.47	100	PLT	T	48FD3003	3132-0220
White	4	101.6	4.88	124.0	250	17.2	30	36	3.24	100	PLT	T	64FD3002	3132-0221

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HOSE FINDER

**Food Master™ Beverage Hose 250SD CR**

Formerly - Cellar Master™



RECOMMENDED FOR: Transfer of beer, milk, juice, soft drinks, pharmaceuticals, cosmetics, or water-based products requiring an FDA sanitary hose.

TEMPERATURE: -40°F to +230°F (-40°C to +110°C) continuous service.

CONSTRUCTION: **Tube:** Sanitron - Type S; Hi Temperature Food Grade; White. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, monofilament helix.
Cover: EPDM - Type P; Abrasion, Crush, Kink Resistant; Smooth; White with burgundy stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 1 Long Shank (Or stainless steel); 8 Tri-Lokt (Or stainless steel); 34 Stainless Steel Nipples; 71 Permanent Swaged or Crimped. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Meets FDA requirements, 3A-Class 3 and USDA.

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(in. Hg)	(in)	(Lbs.)	(ft)				
White	2 1/2	63.5	3.25	82.6	250	17.2	30	12	1.60	100	PLT	T	40FD1001	3132-0186
White	3	76.2	3.86	98.0	250	17.2	30	18	2.20	100	PLT	T	48FD1001	3132-0183
White	4	101.6	4.88	124.0	250	17.2	30	36	2.75	100	PLT	T	64FD1001	3132-0184

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PROPER HOSE SELECTION

HOSE FINDER

Food Master™ Beverage Hose 150SD CR

Formerly - Cellar Master™ Light



RECOMMENDED FOR: Transfer of beer, milk, juice, soft drinks, pharmaceuticals, cosmetics, or water-based products requiring an FDA sanitary hose.

TEMPERATURE: -40°F to +212°F (-40°C to +100°C) continuous service.

CONSTRUCTION: **Tube:** Sanitron - Type S; Hi Temperature Food Grade; White. Sanitron - Type S; Limited Oil Resistance; White. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, monofilament helix.
Cover: EPDM - Type P; Abrasion, Crush, Kink Resistant; Gray with burgundy stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 1 Long Shank (Or stainless steel); 8 Tri-Lokt (Or stainless steel); 34 Stainless Steel Nipples; 71 Permanent Swaged or Crimped. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Meets FDA requirements, 3A-Class 3 and USDA.

Smooth Cover

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Gray	1 1/2	38.1	2.00	50.8	150	10.3	30	6	.65	100	PLT	T	24FD1000	3132-0171
Gray	2 1/2	63.5	3.11	79.0	150	10.3	30	22	1.62	100	PLT	T	40FD1000	3132-0173

MegaTuff™ UHMWPE Cover (Abrasion-Resistant)

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Gray	2 1/2	63.5	3.11	79.0	150	10.3	30	22	1.59	100	PLT	T	40FD1090	3132-5035
Gray	3	76.2	3.75	95.3	150	10.3	30	28	.50	100	PLT	T	48FD1090	3132-5030

**Food Master™ Oils and Dairy Hose 150SD**

Formerly - Food Master™ Lite™



RECOMMENDED FOR: Tank truck, barge, ship, or storage tank transfer of a variety of food products such as animal fat, vegetable oil and other edible oils at temperatures up to +230°F requiring FDA sanitary hose. Also suitable for ice cream and other dairy products requiring 3A-Class 3 standards.

TEMPERATURE: -40°F to +230°F (-40°C to +110°C) continuous service.

CONSTRUCTION: **Tube:** Modified Nitrile - Type C2; Sanitary FDA and 3A-Class 3; Phthalate-free; White. [See characteristics table.](#)

Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.

Cover: Modified Nitrile - Type C2; Corrugated or smooth with burgundy stripe. [See characteristics table.](#)

Design Factor: 4:1

COUPLINGS: 1 Long Shank (Or stainless steel); 8 Tri-Lokt (Or stainless steel); 34 Stainless Steel Nipples; 71 Permanent Swaged or Crimped. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Tube is phthalate free.

Smooth Cover

Color	Hose I.D. (in)	Hose I.D. (mm)	Hose O.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Blue	1 1/2	38.1	2.05	52.1	150	10.3	30	5	1.10	100	PLT	T	24FD6002	3133-0075
Blue	2	50.8	2.55	64.8	150	10.3	30	6	1.46	100	PLT	T	32FD6004	3133-0080
Blue	2 1/2	63.5	3.08	78.2	150	10.3	30	12	1.92	100	PLT	T	40FD6002	3133-0077
Gray	1	25.4	1.54	39.1	150	10.3	30	3	.79	100	PLT	T	16FD6001	3133-0074
Gray	1 1/2	38.1	2.05	52.1	150	10.3	30	5	1.13	100	PLT	T	24FD6004	3133-0071
Gray	2	50.8	2.55	64.8	150	10.3	30	6	1.49	100	PLT	T	32FD6005	3133-0072
Gray	2 1/2	63.5	3.08	78.2	150	10.3	30	12	1.95	100	PLT	T	40FD6006	3133-0083
Gray	3	76.2	3.58	90.9	150	10.3	30	18	2.33	100	PLT	T	48FD6005	3133-0084
Gray	4	101.6	4.60	116.8	150	10.3	30	24	3.13	100	PLT	T	64FD6004	3133-0093
Gray	6	152.4	6.69	169.9	150	10.3	30	36	5.60	50	PLT	T	96FD6002	3133-0094
Red	1	25.4	1.54	39.1	150	10.3	30	3	.79	100	PLT	T	16FD6002	3133-0092
Red	1 1/2	38.1	2.05	52.1	150	10.3	30	5	1.10	100	PLT	T	24FD6005	3133-0076
Red	2	50.8	2.55	64.8	150	10.3	30	6	1.46	100	PLT	T	32FD6006	3133-0081
Red	3	76.2	3.58	90.9	150	10.3	30	18	2.29	100	PLT	T	48FD6006	3133-0090
Red	4	101.6	4.60	116.8	150	10.3	30	24	3.05	100	PLT	T	64FD6005	3133-0088
Red	6	152.4	6.69	169.9	150	10.3	30	36	5.60	50	PLT	T	96FD6003	3133-0095

Corrugated Cover

Color	Hose I.D. (in)	Hose I.D. (mm)	Hose O.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Blue	1 1/2	38.1	2.05	52.1	150	10.3	30	5	1.10	100	PLT	T	24FD6001	3133-0030
Blue	2 1/2	63.5	3.08	78.2	150	10.3	30	12	1.92	100	PLT	T	40FD6001	3133-0032
Blue	3	76.2	3.58	90.9	150	10.3	30	18	1.45	100	PLT	T	48FD6001	3133-0033
Gray	1 1/2	38.1	2.05	52.1	150	10.3	30	5	1.14	100	PLT	T	24FD6003	3133-0056
Gray	3	76.2	3.58	90.9	150	10.3	30	18	2.33	100	PLT	T	48FD6002	3133-0057
Gray	3	76.2	3.58	90.9	150	10.3	30	18	2.32	100	PLT	T	48FD6003	3133-0051
Gray	4	101.6	4.60	116.8	150	10.3	30	24	3.13	100	PLT	T	64FD6001	3133-0060
White	3/4	19.1	1.29	32.8	150	10.3	30	2	.64	200	PLT	T	12FD6001	3133-0011
White	1	25.4	1.54	39.1	150	10.3	30	3	.79	100	PLT	T	16FD6000	3133-0002
White	1 1/2	38.1	2.05	52.1	150	10.3	30	5	1.15	100	PLT	T	24FD6006	3133-0003
White	2	50.8	2.55	64.8	150	10.3	30	6	1.50	100	PLT	T	32FD6003	3133-0004
White	2 1/2	63.5	3.08	78.2	150	10.3	30	12	1.98	100	PLT	T	40FD6005	3133-0005
White	3	76.2	3.58	90.9	150	10.3	30	18	2.35	100	PLT	T	48FD6004	3133-0006
White	4	101.6	4.60	116.8	150	10.3	30	24	3.12	100	PLT	T	64FD6002	3133-0007
White	4	101.6	4.60	116.8	150	10.3	30	18	3.13	200	PLT	T	64FD6003	3133-0055
White	6	152.4	6.69	169.9	150	10.3	30	36	5.59	50	PLT	T	96FD6001	3133-0008

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PROPER HOSE SELECTION

HOSE FINDER

Food Master™ Oils and Dairy Hose 150SD MegaFlex™



RECOMMENDED FOR: Tank truck, barge, ship, or storage tank transfer of a variety of food products such as animal fat, vegetable oil, and other edible oils at temperatures up to +230°F requiring FDA sanitary hose. Also suitable for ice cream and other dairy products requiring 3A–Class 3 standards.

TEMPERATURE: -40°F to +230°F (-40°C to +110°C) continuous service.

CONSTRUCTION: **Tube:** Modified Nitrile - Type C2; Sanitary FDA and 3A–Class 3; Phthalate-free; White. [See characteristics table.](#)

Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.

Cover: Modified Nitrile - Type C2; Sanitary FDA and 3A–Class 3; Phthalate-free; Corrugated; White with burgundy stripe. [See characteristics table.](#)

Design Factor: 4:1

COUPLINGS: 1 Long Shank (Or stainless steel); 8 Tri-Lokt (Or stainless steel); 34 Stainless Steel Nipples; 71 Permanent Swaged or Crimped. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Meets FDA requirements, 3A–Class 3.

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
White	1	25.4	1.47	37.3	150	10.3	30	2	.58	100	PLT	T	16FD6090	3133-0100
White	1 1/2	38.1	1.99	50.5	150	10.3	30	3	.87	100	PLT	T	24FD6096	3133-0101
White	2	50.8	2.49	63.2	150	10.3	30	4	1.14	100	PLT	T	32FD6096	3133-0102
White	3	76.2	3.56	90.4	150	10.3	30	9	1.92	100	PLT	T	48FD6096	3133-0103
White	4	101.6	4.73	120.1	150	10.3	30	12	3.07	100	PLT	T	64FD6095	3133-0104



Food Master™ Oils and Dairy Hose 150D

Formerly - Sani-Pure™



RECOMMENDED FOR: Tank truck, barge, ship, or storage tank transfer of a variety of food products such as animal fat, vegetable oil and other edible oils at temperatures up to +230°F requiring FDA sanitary hose. Also suitable for ice cream and other dairy products requiring 3A-Class 3 standards.

TEMPERATURE: -40°F to +230°F (-40°C to +110°C) continuous service.

CONSTRUCTION: **Tube:** Modified Nitrile - Type C2; Sanitary FDA and 3A-Class 3; Phthalate-free; White. [See characteristics table.](#)

Reinforcement: Multiple plies, synthetic textile.

Cover: Modified Nitrile - Type C2; Smooth; White with burgundy stripe. [See characteristics table.](#)

Design Factor: 4:1

COUPLINGS: 1 Long Shank (Or stainless steel); 8 Tri-Lokt (Or stainless steel); 34 Stainless Steel Nipples; 71 Permanent Swaged or Crimped. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: **Tube:** Meets FDA requirements, 3A-Class 3 and USDA

Color	Hose I.D.		Hose O.D.		Max. W.P.		MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(in)	(Lbs.)	(ft)				
White	1 1/2	38.1	2.04	51.8	150	10.3	18	.97	100	PLT	T	24FD6000	3131-0001
White	2	50.8	2.54	64.5	150	10.3	24	1.25	100	PLT	T	32FD6000	3131-0002
White	2 1/2	63.5	3.06	77.7	150	10.3	30	1.66	100	PLT	T	40FD6000	3131-0003
White	3	76.2	3.56	90.4	150	10.3	36	1.90	100	PLT	T	48FD6000	3131-0004
White	4	101.6	4.60	116.8	150	10.3	48	2.78	100	PLT	T	64FD6000	3131-0005
White	6	152.4	6.60	167.6	150	10.3	72	4.10	50	PLT	T	96FD6000	3131-0006

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PROPER HOSE SELECTION

HOSE FINDER

Food Master™ Dry Goods Hose (50-150) SD

Formerly - 690SB



RECOMMENDED FOR: Transfer of bulk food products via suction, pneumatic or gravity systems where FDA sanitary tube is required. Examples: Flour, sugar, syrup and edible grains.

CAUTION: Do not use for any type of edible or non-edible oils, acetic foods, or solvents. This includes mustard, vinegar, vegetable oils, and food grade sanitizers. Scheduled visual inspections of the tube and cover is necessary for food safety, optimal performance, and hose longevity. Eliminating bends in hose routing, periodically rotating hose and preventative replacement cycles are recommended. Immediately replace any hose that shows tube or cover deterioration.

TEMPERATURE: -40°F to +150°F (-40°C to +66°C) continuous service.

CONSTRUCTION: **Tube:** Natural Rubber - Type D2; Sanitary FDA; White. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: EPDM - Type P; Corrugated; Gray with burgundy stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 5 Brass Pin Lug (Used only at 50% of rated working pressure); 6 Malleable Iron Pin Lug (Used only at 50% of rated working pressure); 7 Combination Nipple (Used only at 50% of rated working pressure); 8 Tri-Lokt; 49 Industrial Quick-Connecting; 71 Permanent Swaged or Crimped. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: **Tube:** Meets applicable FDA requirements

3/16" Tube Thickness

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Gray	2	50.8	2.75	69.9	150	10.3	30	12	1.76	100	PLT	T	32FD5100	4693-0210
Gray	2 1/2	63.5	3.23	82.0	125	8.6	30	15	2.00	100	PLT	T	40FD5100	4693-0220
Gray	3	76.2	3.75	95.3	100	6.9	30	18	2.13	100	PLT	T	48FD5100	4693-0225
Gray	4	101.6	4.71	119.6	75	5.2	30	24	3.00	100	PLT	T	64FD5103	4693-0235
Gray	5	127.0	5.75	146.1	55	3.8	30	30	3.98	50	PLT	T	80FD5102	4693-0251
Gray	5	127.0	5.75	146.1	55	3.8	30	30	4.30	100	PLT	T	80FD5103	4693-0001
Gray	6	152.4	6.91	175.5	50	3.4	30	36	5.88	50	PLT	T	96FD5100	4693-0260

3/8" Tube Thickness

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Gray	4	101.6	4.71	119.6	75	5.2	30	36	4.99	100	PLT	T	64FD5102	4693-0551

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PROPER HOSE SELECTION

HOSE FINDER

**Food Master™ Dry Goods Hose (25-40) D**

Formerly - 610W

**RECOMMENDED FOR:** Pneumatic transfer of flour and other dry foods requiring hose with a sanitary FDA tube.**CAUTION:** Do not use for any type of edible or non-edible oils, acetic foods, or solvents. This includes mustard, vinegar, vegetable oils, and food grade sanitizers. Scheduled visual inspections of the tube and cover is necessary for food safety, optimal performance, and hose longevity. Eliminating bends in hose routing, periodically rotating hose and preventative replacement cycles are recommended. Immediately replace any hose that shows tube or cover deterioration.**TEMPERATURE:** -40°F to +150°F (-40°C to +66°C) continuous service.**CONSTRUCTION:**
Tube: Natural Rubber - Type D2; Sanitary FDA; White; 3/16" thickness. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, static filament.
Cover: Natural Rubber - Type D3; Smooth; Gray with burgundy stripe.
Carboxylated Nitrile - Type C4; Smooth; Yellow with burgundy stripe. [See characteristics table.](#)
Design Factor: 4:1**COUPLINGS:** 5 Brass Pin Lug; 7 Combination Nipple; 49 Industrial Quick-Connecting; 71 Permanent Swaged or Crimped. [Reference the Industrial Hose Coupling Selection Overview.](#)**STANDARDS:** **Tube:** Meets applicable FDA requirements

Color	Hose I.D.		Hose O.D.		Max. W.P.		MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(in)	(Lbs.)	(ft)				
Gray	4	101.6	4.56	115.8	40	2.8	48	2.08	100	PLT	T	64FD5100	3132-0782
Gray	5	127.0	5.56	141.2	30	2.1	60	2.46	100	PLT	T	80FD5100	3132-0793
Gray	6	152.4	6.56	166.6	25	1.7	72	3.04	100	PLT	T	96FD5102	3132-0797
Yellow	4	101.6	4.56	115.8	40	2.8	48	2.22	100	PLT	T	64FD5101	3132-0783
Yellow	5	127.0	5.56	141.2	30	2.1	60	2.73	100	PLT	T	80FD5101	3132-0794

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PROPER HOSE SELECTION

HOSE FINDER

Food Master™ PVC (20-65) Clear Tubing



RECOMMENDED FOR: This hose has good oil-resistance, excellent resistance to acids, alkalis, and many solvents except esters, ketones and aromatic hydrocarbons. Formulated to meet applicable FDA criteria.

TEMPERATURE: -25°F to +150°F (-31°C to +65°C) continuous service.

CONSTRUCTION:
Tube: PVC - Type G; Non-toxic; Phthalate-Free; Clear. [See characteristics table.](#)
Reinforcement: None.
Cover: PVC - Type G; Non-toxic; Smooth; Clear. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 19 Standard Air Hose; Stainless Steel Braid Couplings [G17 Series]. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Meets applicable FDA.

Color	Hose I.D.		Hose O.D.		Max. W.P.*		Wt. Per	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(Lbs.)	(ft)				
Clear	1/8	3.2	0.20	4.8	65	4.5	.02	100	CTN	T	2FD2000	7744-1512
Clear	3/16	4.8	0.38	9.7	60	4.1	.04	100	CTN	T	3FD2001	7744-1514
Clear	3/16	4.8	0.25	6.4	50	3.4	.03	100	CTN	T	3FD2000	7744-1513
Clear	1/4	6.4	0.38	9.7	55	3.8	.03	100	CTN	T	4FD2000	7744-1515
Clear	1/4	6.4	0.50	12.7	60	4.1	.08	100	CTN	T	4FD2001	7744-1516
Clear	5/16	7.9	0.44	11.2	50	3.4	.04	100	CTN	T	5FD2000	7744-1517
Clear	5/16	7.9	0.56	14.2	60	4.1	.10	100	CTN	T	5FD2001	7744-1518
Clear	3/8	9.5	0.50	12.7	45	3.1	.06	100	CTN	T	6FD2000	7744-1519
Clear	3/8	9.5	0.63	16.0	55	3.8	.12	100	CTN	T	6FD2001	7744-1520
Clear	1/2	12.7	0.75	19.1	45	3.1	.13	100	CTN	T	8FD2001	7744-1522
Clear	1/2	12.7	0.63	16.0	30	2.1	.07	100	CTN	T	8FD2000	7744-1521
Clear	5/8	15.9	0.75	19.1	25	1.7	.08	100	CTN	T	10FD2000	7744-1523
Clear	5/8	15.9	0.88	22.4	40	2.8	.16	100	CTN	T	10FD2001	7744-1524
Clear	3/4	19.1	1.00	25.4	35	2.4	.19	100	CTN	T	12FD2000	7744-1525
Clear	3/4	19.1	1.25	31.8	45	3.1	.43	100	CTN	T	12FD2001	7744-1526
Clear	1	25.4	1.25	31.8	25	1.7	.21	100	CTN	T	16FD2000	7744-1527
Clear	1	25.4	1.50	38.1	35	2.4	.54	100	CTN	T	16FD2001	7744-1528
Clear	1 1/4	31.8	1.50	38.1	20	1.4	.28	50	PLT	T	20FD2000	7744-1529
Clear	1 1/4	31.8	1.75	44.5	40	2.8	.67	50	PLT	T	20FD2001	7744-1530
Clear	1 1/2	38.1	2.00	50.8	35	2.4	.85	50	PLT	T	24FD2000	7744-1531
Clear	2	50.8	2.50	63.5	35	2.4	.85	50	PLT	T	32FD2000	7744-1532

NOTE: * Working Pressure at +72°F (+22°C).

**Food Master™ PVC (75-250) Clear Tubing Braid**

Formerly - Tufflex™ Food



RECOMMENDED FOR: Transferring compressed liquid and air in food and beverage applications. Approved for use in USDA meat and poultry plants. Non-toxic, FDA formula approved for food processing. Also suitable for potable water transfer.

TEMPERATURE: -10°F to +130°F (-23°C to +55°C) continuous service.

CONSTRUCTION: **Tube:** PVC - Type G; Non-toxic; Clear. [See characteristics table.](#)
Reinforcement: Braided, synthetic textile.
Cover: PVC - Type G; Non-toxic; Smooth; Clear. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: Stainless Steel Braid Couplings [G17 Series] (Food grade). [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Meets FDA requirements and USDA.

Color	Hose I.D.		Hose O.D.		Max. W.P.*		Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)						
Clear	1/4	6.4	0.47	11.9	250	17.2	.07	300	PLT	T	4FD2600	7744-4501
Clear	3/8	9.5	0.63	16.0	200	13.8	.11	300	PLT	T	6FD2600	7744-4502
Clear	1/2	12.7	0.75	19.1	200	13.8	.13	300	PLT	T	8FD2600	7744-4503
Clear	5/8	15.9	0.88	22.4	200	13.8	.15	300	PLT	T	10FD2600	7744-4504
Clear	3/4	19.1	1.03	26.2	150	10.3	.20	300	PLT	T	12FD2600	7744-4505
Clear	1	25.4	1.31	33.3	125	8.6	.32	100	PLT	T	16FD2600	7744-4506
Clear	1 1/4	31.8	1.75	44.5	100	6.9	.63	100	PLT	T	20FD2600	7744-4507
Clear	1 1/2	38.1	2.00	50.8	75	5.2	.74	100	PLT	T	24FD2600	7744-4508
Clear	2	50.8	2.50	63.5	75	5.2	1.00	100	PLT	T	32FD2600	7744-4509

NOTE: * Working Pressure at +72°F (+22°C).

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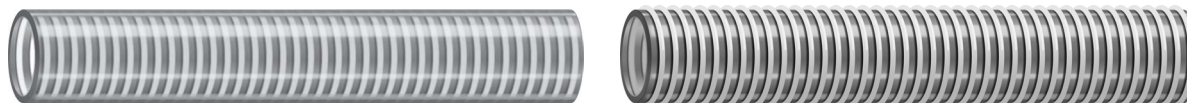
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PROPER HOSE SELECTION

HOSE FINDER

Food Master™ PVC SD Clear

Formerly - Master-Flex™ 200CL



- RECOMMENDED FOR:** Transfer of bulk food products via suction, pneumatic or gravity systems where sanitary hose is required.
- TEMPERATURE:** -10°F to +130°F (-23°C to +55°C) continuous service.
- CONSTRUCTION:** **Tube:** PVC - Type G; Limited Oil Resistance; Sanitary FDA; Clear. [See characteristics table.](#)
Reinforcement: Rigid thermoplastic helix.
Cover: PVC - Type G; Sanitary FDA; Corrugated or smooth; Clear. [See characteristics table.](#)
Design Factor: 3:1
- COUPLINGS:** 1 Long Shank; 6 Malleable Iron Pin Lug; 7 Combination Nipple; 49 Industrial Quick-Connecting. [Reference the Industrial Hose Coupling Selection Overview.](#)
- STANDARDS:** Meets FDA requirements, 3A-Class 3 and USDA.

Smooth Cover

	Hose I.D.	⊖	Hose O.D.	⊖	Max. W.P.*	⊖	Vac.*	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Clear	1	25.4	1.29	32.8	100	6.9	28	3	.30	100	PLT	T	16FD2500	7744-4101
Clear	1 1/4	31.8	1.56	39.6	90	6.2	28	4	.38	100	PLT	T	20FD2500	7744-4102
Clear	1 1/2	38.1	1.84	46.7	90	6.2	28	5	.48	100	PLT	T	24FD2501	7744-4103
Clear	2	50.8	2.39	60.7	70	4.8	28	6	.71	100	PLT	T	32FD2501	7744-4104
Clear	2 1/2	63.5	2.92	74.2	65	4.5	28	8	.97	100	PLT	T	40FD2501	7744-4105
Clear	3	76.2	3.46	87.9	60	4.1	28	9	1.27	100	PLT	T	48FD2501	7744-4106
Clear	4	101.6	4.56	115.8	50	3.4	28	12	2.00	100	PLT	T	64FD2501	7744-4107

NOTE: * Working Pressure and Vacuum at +72°F (+22°C).

Corrugated Cover

	Hose I.D.	⊖	Hose O.D.	⊖	Max. W.P.*	⊖	Vac.*	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Clear	1	25.4	1.26	32.0	40	2.8	28	2	.14	100	PLT	T	16FD2501	7744-4301
Clear	1 1/2	38.1	1.82	46.2	50	3.4	28	3	.37	100	PLT	T	24FD2500	7744-4303
Clear	2	50.8	2.44	62.0	40	2.8	28	4	.57	100	PLT	T	32FD2500	7744-4304
Clear	2 1/2	63.5	2.98	75.7	40	2.8	28	5	.77	100	PLT	T	40FD2500	7744-4305
Clear	3	76.2	3.54	89.9	35	2.4	28	6	1.04	100	PLT	T	48FD2500	7744-4306
Clear	4	101.6	4.65	118.1	35	2.4	28	8	1.65	100	PLT	T	64FD2500	7744-4307

NOTE: * Working Pressure and Vacuum at +72°F (+22°C).

**Food Master™ PVC Dry Goods Hose (35-40) SD Clear**

Formerly - Master-Flex™ 202SW



RECOMMENDED FOR: Transfer of bulk food products via suction, pneumatic or gravity systems where sanitary hose is required. Used in pneumatic conveying systems for powders, pellets or granular materials where a static-conductive hose is needed.

TEMPERATURE: -10°F to +130°F (-23°C to +55°C) continuous service.

CONSTRUCTION: **Tube:** PVC - Type G; Sanitary FDA; Limited Oil Resistance; Clear. [See characteristics table.](#)
Reinforcement: Rigid thermoplastic helix with static filament.
Cover: PVC - Type G; Sanitary FDA; Corrugated; Clear. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 1 Long Shank; 6 Malleable Iron Pin Lug; 7 Combination Nipple; 49 Industrial Quick-Connecting. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Meets FDA requirements and USDA.

Color	Hose I.D.		Hose O.D.		Max. W.P.*		Vac.*	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Clear	2	50.8	2.37	60.2	40	2.8	28	4	.58	100	PLT	T	32FD2700	7744-4420
Clear	3	76.2	3.62	91.9	35	2.4	28	6	1.02	100	PLT	T	48FD2700	7744-4430

NOTE: * Working Pressure and Vacuum at +72°F (+22°C).

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HOSE FINDER

Bulk Master™ Dry Cement Hose (20-75) D

Formerly - 609W



RECOMMENDED FOR: Pneumatic transfer of bulk cement and other dry bulk materials.

TEMPERATURE: -40°F to +150°F (-40°C to +66°C) continuous service.

CONSTRUCTION: **Tube:** Natural Rubber - Type D3; Static-conductive; Black. [See characteristics table.](#)

Reinforcement: Multiple plies, synthetic textile.

Cover: SBR - Type D; Smooth; Black with gray stripe. [See characteristics table.](#)

Design Factor: 4:1

COUPLINGS: 5 Brass Pin Lug; 7 Combination Nipple; 49 Industrial Quick-Connecting; 78 Crimp Sleeves. [Reference the Industrial Hose Coupling Selection Overview.](#)

1/8" Tube Thickness

	Hose I.D.		Hose O.D.		Max. W.P.		MBR	Wt. Per ea	Length				
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(in)	(Lbs.)	(ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	3	76.2	3.47	88.1	75	5.2	36	1.30	100	PLT	T	48BM5000	3129-0660
Black	4	101.6	4.47	113.5	75	5.2	48	1.71	100	PLT	T	64BM5000	3129-0670
Black	4	101.6	4.47	113.5	75	5.2	48	1.69	200	PLT	T	64BM5001	3129-0672
Black	4 1/2	114.3	4.97	126.2	35	2.4	54	1.92	100	PLT	T	72BM5000	3129-0675
Black	5	127.0	5.47	138.9	75	5.2	60	2.12	100	PLT	T	80BM5000	3129-0680
Black	6	152.4	6.47	164.3	25	1.7	72	2.51	100	PLT	T	96BM5000	3129-0690
Black	6 5/8	168.3	7.10	180.3	20	1.4	72	2.35	100	PLT	T	106BM5000	3129-0700

3/16" Tube Thickness (Plus)

	Hose I.D.		Hose O.D.		Max. W.P.		MBR	Wt. Per ea	Length				
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(in)	(Lbs.)	(ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	4	101.6	4.61	117.1	60	4.1	48	2.11	100	PLT	T	64BM5400	3129-0790

1/4" Tube Thickness (XTreme™)

	Hose I.D.		Hose O.D.		Max. W.P.		MBR	Wt. Per ea	Length				
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(in)	(Lbs.)	(ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	4	101.6	4.73	120.1	60	4.1	48	2.71	100	PLT	T	64BM5300	3129-0570
Black	6	152.4	6.73	170.9	20	1.4	72	3.91	100	PLT	T	96BM5300	3129-0572

**Bulk Master™ Plus Hose (35-150) SD**

Formerly - 688SB



RECOMMENDED FOR: Transfer of bulk materials via suction, gravity or pneumatic systems where abrasion resistance is the primary requirement. Examples: Dry cement, sand, gravel, feed, seed and slurries.

TEMPERATURE: -40°F to +150°F (-40°C to +66°C) continuous service.

CONSTRUCTION: **Tube:** Natural Rubber - Type D3; Static-conductive; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: SBR - Type D; Corrugated; Black with gray stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 5 Brass Pin Lug; 6 Malleable Iron Pin Lug; 7 Combination Nipple; 49 Industrial Quick-Connecting; 78 Crimp Sleeves.
[Reference the Industrial Hose Coupling Selection Overview.](#)

3/16" Tube Thickness

Color	Hose I.D. (in)	Hose O.D. (mm)	Hose I.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	2	50.8	2.77	70.4	60	4.1	30	16	1.74	100	PLT	T	32BM4000	4691-0305
Black	2	50.8	2.77	70.4	60	4.1	30	16	1.74	200	PLT	T	32BM4001	4691-0306
Black	3	76.2	3.81	96.8	60	4.1	30	24	2.66	100	PLT	T	48BM4000	4691-0325
Black	4	101.6	4.77	121.2	45	3.1	30	32	3.37	100	PLT	T	64BM4001	4691-0340
Black	4	101.6	4.77	121.2	45	3.1	30	32	3.37	200	PLT	T	64BM4002	4691-4342
Black	4 1/2	114.3	5.27	133.9	40	2.8	30	36	3.70	50	PLT	T	72BM4000	4691-0355
Black	5	127.0	5.77	146.6	40	2.8	30	40	4.14	50	PLT	T	80BM4000	4691-0360
Black	6	152.4	6.76	171.7	40	2.8	30	48	5.07	50	PLT	T	96BM4000	4691-0346
Black	6	152.4	6.76	171.7	40	2.8	30	48	5.07	200	PLT	T	96BM4002	4691-0349
Black	6 5/8	168.3	7.47	189.7	35	2.4	30	36	5.36	50	PLT	T	106BM4000	4691-0370

1/4" Tube Thickness

Color	Hose I.D. (in)	Hose O.D. (mm)	Hose I.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	4	101.6	4.94	125.5	150	10.3	30	32	4.00	100	PLT	T	64BM4000	4691-0043
Black	5	127.0	5.96	151.4	150	10.3	30	40	4.96	100	PLT	T	80BM4001	4691-0044
Black	6	152.4	6.97	177.0	150	10.3	30	48	6.27	100	PLT	T	96BM4001	4691-0045

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PROPER HOSE SELECTION

HOSE FINDER

Bulk Master™ Hot Air Blower Hose (40-130) SD HT

Formerly - Hot Air Blower



RECOMMENDED FOR: Conveying hot air up to +350°F from blower or compressor to storage tank used in the transfer of dry bulk commodities. Can also be used for transferring mild chemicals at ambient temperatures.

CAUTION: -40°F to +125°F (-40°C to +52°C) for mild chemical transfer. For chemicals above +125°F or suitability for use with a specific chemical, contact Denver Product Application at (303) 744-5070.

TEMPERATURE: -40°F to +350°F (-40°C to +177°C) for hot air service.

CONSTRUCTION:
Tube: EPDM - Type P; High Temperature Air; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: EPDM - Type P; Wrapped; Black with gray stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 5 Brass Pin Lug; 7 Combination Nipple; 49 Industrial Quick-Connecting. Block 49 (Cam and Groove) should not be used for compressed air service and are not recommended for high temperature service. [Reference the Industrial Hose Coupling Selection Overview.](#)

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	2	50.8	2.58	65.5	125	8.6	30	9	1.00	100	PLT	T	32BM6000	4691-0502
Black	2 1/2	63.5	3.08	78.2	110	7.6	30	14	1.43	100	PLT	T	40BM6000	4691-0503
Black	3	76.2	3.64	92.5	400	28	30	18	1.63	100	PLT	T	48BM6000	4691-0504
Black	4	101.6	4.64	117.9	75	5.2	30	24	2.21	100	PLT	T	64BM6000	4691-0506
Black	5	127.0	5.74	145.8	55	3.8	30	30	3.13	100	PLT	T	80BM6000	4691-0507

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**Bulk Master™ Hose (4-20) SD**

Formerly - 770SB



RECOMMENDED FOR: Light-duty vacuum service in industrial and maintenance applications conveying air, dust, fine particles, leaves, grass, etc.

TEMPERATURE: -40°F to +150°F (-40°C to +66°C) continuous service.

CONSTRUCTION: **Tube:** Natural Rubber - Type D3; Static-conductive; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: SBR - Type D; Corrugated; Black with gray stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 5 Brass Pin Lug; 6 Malleable Iron Pin Lug; 7 Combination Nipple; 78 Crimp Sleeves. [Reference the Industrial Hose Coupling Selection Overview.](#)

Color	Hose I.D. (in)	Hose I.D. (mm)	Hose O.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	1 1/4	31.8	1.64	41.7	5	.3	20	5	.59	100	PLT	T	20BM1000	4691-0405
Black	1 1/2	38.1	1.89	48.0	6	.4	20	6	.68	100	PLT	T	24BM1000	4691-0410
Black	2	50.8	2.39	60.7	8	.6	20	8	.75	100	PLT	T	32BM1000	4691-0420
Black	3	76.2	3.39	86.1	12	.8	20	10	1.03	100	PLT	T	48BM1000	4691-0435
Black	4	101.6	4.39	111.5	16	1.1	20	15	1.35	100	PLT	T	64BM1000	4691-0440
Black	5	127.0	5.53	140.5	20	1.4	20	20	2.27	50	PLT	T	80BM1000	4691-0450

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PROPER HOSE SELECTION

HOSE FINDER

Bulk Master™ Sand Blast Hose (120-150) D

Formerly - 429W



RECOMMENDED FOR: Sand, shot-blasting work and wherever abrasive materials are carried at high velocity.

TEMPERATURE: -40°F to +150°F (-40°C to +66°C) continuous service.

CONSTRUCTION: **Tube:** Natural Rubber - Type D3; Static-conductive; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile.
Cover: SBR - Type D; Perforated; Black with gray stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 36 Sandblast. [Reference the Industrial Hose Coupling Selection Overview.](#)

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1/2	12.7	1.23	31.2	150	10.3	25	5	.55	50	PLT	T	8BM7000	4129-0085
Black	3/4	19.1	1.50	38.1	150	10.3	15	8	.70	50	PLT	T	12BM7000	4129-0086
Black	1	25.4	1.63	41.4	150	10.3	5	12	.70	50	PLT	T	16BM7000	4129-0256
Black	1	25.4	1.87	47.5	150	10.3	5	12	.96	50	PLT	T	16BM7001	4129-0100
Black	1 1/4	31.8	2.16	54.9	150	10.3	5	12	1.12	50	PLT	T	20BM7000	4129-0105
Black	1 1/2	38.1	2.37	60.2	135	9.3	5	18	1.56	50	PLT	T	24BM7000	4129-0150
Black	2	50.8	2.94	74.7	120	8.3	5	20	2.00	50	PLT	T	32BM7000	4129-0200

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HOSE FINDER

**Bulk Master™ PVC Hose (25-40) SD AR**

Formerly - Master-Flex™ 400



RECOMMENDED FOR: Transfer of bulk materials via suction, pneumatic or gravity systems where tube abrasion resistance is the primary requirement and a static-conductive hose is needed. Can also be used for vacuum or ducting service.

TEMPERATURE: -30°F to +140°F (-34°C to +60°C) continuous service.

CONSTRUCTION: **Tube:** SBR - Type D; Static-conductive; Black. [See characteristics table.](#)
Reinforcement: Rigid thermoplastic helix.
Cover: PVC - Type G; Rigid PVC helix, Corrugated; Black with gray helix. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 1 Long Shank; 6 Malleable Iron Pin Lug; 7 Combination Nipple; 49 Industrial Quick-Connecting; 78 Crimp Sleeves. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: **Tube:** ARPM Class B (Medium Oil Resistance)

Color	Hose I.D.		Hose O.D.		Max. W.P.*		Vac.*	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	2	50.8	2.41	61.2	35	2.4	28	4	.54	100	PLT	T	32BM2000	7744-6103
Black	2 1/2	63.5	2.98	75.7	35	2.4	28	5	.77	100	PLT	T	40BM2000	7744-6104
Black	4	101.6	4.65	118.1	30	2.1	28	8	1.70	100	PLT	T	64BM2000	7744-6106
Black	6	152.4	6.86	174.2	25	1.7	28	12	3.21	100	PLT	T	96BM2000	7744-6108

NOTE: * Working Pressure and Vacuum at +72°F (+22°C).

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PROPER HOSE SELECTION

HOSE FINDER

Mine Master™ Spray 1000

Formerly - 1000 MP/Mine Spray



RECOMMENDED FOR: High-pressure water service in underground mining applications and hot water washdown service. The thick cover meets MSHA's self-extinguishing requirements and is designed for the tough mining environment.

CAUTION: Air service working pressure is 300 psi for all sizes.

TEMPERATURE: -40°F to +212°F (-40°C to +100°C) service range.

CONSTRUCTION: **Tube:** EPDM - Type P; Limited Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Braided, steel wire.
Cover: Modified Nitrile - Type C2; Medium Oil Resistance; Perforated; All colors non-marking. [See characteristics table.](#)

Design Factor: 4:1

COUPLINGS: 80 Gates GSP™ (for 1 1/2" or 2" only); MegaCrimp™ Couplings [G25 Series] (for 1/2" through 1 1/4"); 14 Interlocking, Ground Joint (Pressure up to 300 PSI only); 15 Interlocking, Washer Joint (Pressure up to 300 PSI only); 19 Standard Air Hose (Pressure up to 300 PSI only). [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Meets MSHA Flame-resistant.
Tube: ARPM Class C (Limited Oil Resistance)
Cover: ARPM Class B (Medium Oil Resistance)

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Blue	1	25.4	1.42	36.1	1000	68.9	25	11	.66	100	CTN	T	16MI1904	3619-0759
Red	1/2	12.7	0.84	21.3	1000	68.9	30	5	.30	500	REEL	T	8MI1904	3619-0757
Red	3/4	19.1	1.10	27.9	1000	68.9	25	8	.66	500	REEL	T	12MI1905	3619-0758
Yellow	1/2	12.7	0.84	21.3	1000	68.9	30	5	.29	50	BULK	1200	8MI1901	3619-0761
Yellow	1/2	12.7	0.84	21.3	1000	68.9	30	5	.29	50	CTN	T	8MI1900	3619-0699
Yellow	1/2	12.7	0.84	21.3	1000	68.9	30	5	.29	100	CTN	T	8MI1902	3619-0716
Yellow	1/2	12.7	0.84	21.3	1000	68.9	30	5	.28	450	REEL	—	8MI1903	3619-3106
Yellow	3/4	19.1	1.10	27.9	1000	68.9	25	8	.43	50	BULK	850	12MI1900	3619-0762
Yellow	3/4	19.1	1.10	27.9	1000	68.9	25	8	.43	50	CTN	T	12MI1901	3619-0700
Yellow	3/4	19.1	1.10	27.9	1000	68.9	25	8	.43	100	CTN	T	12MI1902	3619-0721
Yellow	3/4	19.1	1.10	27.9	1000	68.9	25	8	.43	100	BULK	1000	12MI1903	3619-0789
Yellow	3/4	19.1	1.10	27.9	1000	68.9	25	8	.43	500	REEL	XX	12MI1904	3619-0749
Yellow	1	25.4	1.42	36.1	1000	68.9	25	11	.66	50	CTN	T	16MI1900	3619-0701
Yellow	1	25.4	1.42	36.1	1000	68.9	25	11	.66	50	BULK	700	16MI1901	3619-0763
Yellow	1	25.4	1.42	36.1	1000	68.9	25	11	.66	100	CTN	T	16MI1902	3619-0786
Yellow	1	25.4	1.42	36.1	1000	68.9	25	11	.66	100	BULK	400	16MI1903	3619-0790
Yellow	1 1/4	31.8	1.69	42.9	1000	68.9	20	16	.81	50	CTN	T	20MI1900	3619-0702
Yellow	1 1/4	31.8	1.69	42.9	1000	68.9	20	16	.81	50	BULK	300	20MI1901	3619-0764
Yellow	1 1/4	31.8	1.69	42.9	1000	68.9	20	16	.81	100	CTN	T	20MI1902	3619-0787
Yellow	1 1/4	31.8	1.69	42.9	1000	68.9	20	16	.81	100	BULK	100	20MI1903	3619-0791
Yellow	1 1/2	38.1	1.92	48.8	1000	68.9	15	18	1.07	50	CTN	T	24MI1900	3619-0708
Yellow	1 1/2	38.1	1.92	48.8	1000	68.9	15	18	1.07	50	BULK	250	24MI1901	3619-0765
Yellow	1 1/2	38.1	1.92	48.8	1000	68.9	15	18	1.07	100	CTN	T	24MI1902	3619-0788
Yellow	1 1/2	38.1	1.92	48.8	1000	68.9	15	18	1.07	100	BULK	200	24MI1903	3619-0792
Yellow	2	50.8	2.45	62.2	1000	68.9	10	25	1.47	50	CTN	T	32MI1900	3619-0760
Yellow	2	50.8	2.45	62.2	1000	68.9	10	25	1.47	50	BULK	200	32MI1901	3619-0766
Yellow	2	50.8	2.45	62.2	1000	68.9	10	25	1.47	100	CTN	T	32MI1902	3619-0745

NOTE: Qty +/- 0', max 3 pieces, increments of 150'.

**Mine Master™ Longwall Emulsion 1000**

Formerly - Longwall Mine Emulsion



RECOMMENDED FOR: Flexible connections in high-pressure water distribution and emulsion systems used in a variety of industries. The thick cover meets MSHA's self-extinguishing requirements, and is designed for the tough mining environment.

TEMPERATURE: -40°F to +212°F (-40°C to +100°C) normal service.

CONSTRUCTION: **Tube:** Chloroprene (Neoprene) - Type A; Medium Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Braided, steel wire.
Cover: Specially compounded elastomer - Type C2; Medium Oil Resistance; Wrapped; Black with yellow stripe.
 Modified Nitrile - Type C2; Medium Oil Resistance; Wrapped; Yellow with yellow stripe. [See characteristics table.](#)

Design Factor: 4:1

COUPLINGS: 14 Interlocking, Ground Joint; 15 Interlocking, Washer Joint; Wildman Reusable Couplings (Reusable male couplings). [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Meets MSHA Flame-resistant.
Tube: ARPM Class C (Limited Oil Resistance)
Cover: ARPM Class B (Medium Oil Resistance)

Color	Hose I.D. (in)	 (mm)	Hose O.D. (in)	 (mm)	Max. W.P. (psi)	 (Bar)	Vac. (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	2 1/2	63.5	3.34	84.8	1000	68.9	10	20	3.17	50	CTN	T	40MI1700	3619-0809
Black	2 1/2	63.5	3.34	84.8	1000	68.9	10	20	3.17	100	CTN	T	40MI1701	3619-0811
Black	3	76.2	3.91	99.3	1000	68.9	10	20	4.14	50	CTN	T	48MI1700	3619-0810
Black	3	76.2	3.91	99.3	1000	68.9	10	20	4.14	100	CTN	T	48MI1701	3619-3531
Yellow	2 1/2	63.5	3.34	84.8	1000	68.9	10	20	3.17	50	CTN	T	40MI1702	3619-3103
Yellow	3	76.2	3.91	99.3	1000	68.9	10	20	4.14	50	CTN	T	48MI1702	3619-0051
Yellow	3	76.2	3.91	99.3	1000	68.9	10	20	4.14	100	CTN	T	48MI1703	3619-3530

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HOSE FINDER

Mine Master™ Air Drill 600HT

Formerly - Scorpion™



RECOMMENDED FOR: High-pressure and high-temperature air hose used on industrial, construction, pneumatic mining and drilling applications requiring a wire-braided hose with a high-temperature thick rubber cover.

TEMPERATURE: -40°F to +300°F (-40°C to +149°C).

CONSTRUCTION: **Tube:** CPE - Type J; Medium Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Braided, steel wire.
Cover: CPE - Type J; Medium Oil Resistance; Perforated; Black with yellow stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 14 Interlocking, Ground Joint; 15 Interlocking, Washer Joint; 18 Universal Quick Acting; 35 Four-Finger Boss Clamp; 71 Permanent Swaged or Crimped (Permanent Swaged); 80 Gates GSP™ (for 1 1/2" or 2" only). [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: **Tube:** ARPM Class B (Medium Oil Resistance)
Cover: ARPM Class B (Medium Oil Resistance)

	Hose I.D.		Hose O.D.		Max. W.P.		MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(in)	(Lbs.)	(ft)				
Black	1 1/2	38.1	2.02	51.3	600	41.4	12	1.13	50	CTN	QQ	24MI1600	3618-0311
Black	2	50.8	2.62	66.5	600	41.4	16	1.51	50	CTN	QQ	32MI1600	3618-0312
Black	2	50.8	2.62	66.5	600	41.4	16	1.63	50	CTN	T	32MI1610	3618-0336
Black	2 1/2	63.5	3.12	79.2	600	41.4	18	1.89	50	CTN	QQ	40MI1600	3618-0313
Black	3	76.2	3.64	92.5	600	41.4	20	2.46	50	CTN	QQ	48MI1600	3618-0314
Black	3	76.2	3.64	92.5	600	41.4	18	2.62	50	CTN	T	48MI1610	3618-0333
Black	4	101.6	4.79	121.7	600	41.4	25	4.10	50	CTN	QQ	64MI1600	3618-0315

**Mine Master™ Air Drill 500**

Formerly - 18MB



- RECOMMENDED FOR:** Extra heavy-duty, high-pressure use on industrial, construction and pneumatic mining applications requiring wire-braided hose with an oil-resistant tube and abrasion-resistant cover.
- TEMPERATURE:** -30°F to +212°F (-34°C to +100°C) continuous service.
- CONSTRUCTION:** **Tube:** Chloroprene (Neoprene) - Type A; Medium Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Braided, steel wire.
Cover: Modified Nitrile - Type C2 (for 3/4" through 1-1/4" sizes only); Abrasion Resistant; Perforated; Gray with yellow stripe.
 Natural Rubber - Type D3 (for 1-1/2" through 4" sizes only); Abrasion Resistant; Perforated; Gray with yellow stripe. [See characteristics table.](#)
- Design Factor:** 4:1
- COUPLINGS:** 14 Interlocking, Ground Joint; 15 Interlocking, Washer Joint; 18 Universal Quick Acting; 35 Four-Finger Boss Clamp; 80 Gates GSP™ (for 1 1/2" or 2" only). [Reference the Industrial Hose Coupling Selection Overview.](#)
- STANDARDS:** **Tube:** ARPM Class B (Medium Oil Resistance)
Cover: ARPM Class B (Medium Oil Resistance)

Color	Hose I.D. (in)	Hose I.D. (mm)	Hose O.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Gray	3/4	19.1	1.28	32.5	500	34.5	25	6	.41	50	CTN	T	12MI1000	3618-0011
Gray	1	25.4	1.55	39.4	500	34.5	25	8	.80	50	CTN	T	16MI1000	3618-0021
Gray	1 1/4	31.8	1.80	45.7	500	34.5	15	10	1.02	50	CTN	T	20MI1000	3618-0031
Gray	1 1/2	38.1	2.21	56.1	500	34.5	15	12	1.42	50	CTN	T	24MI1000	3618-0041
Gray	2	50.8	2.77	70.4	500	34.5	15	14	2.30	50	CTN	T	32MI1000	3618-0051
Gray	2	50.8	2.77	70.4	500	34.5	15	14	1.26	60	CTN	T	32MI1001	3618-0052
Gray	2	50.8	2.77	70.4	500	34.5	15	14	2.06	100	CTN	T	32MI1002	3618-1000
Gray	2 1/2	63.5	3.46	87.9	500	34.5	10	30	3.28	50	CTN	T	40MI1000	3618-0201
Gray	2 1/2	63.5	3.46	87.9	500	34.5	10	30	3.28	60	CTN	T	40MI1001	3618-0205
Gray	3	76.2	3.97	100.8	500	34.5	10	36	4.10	50	CTN	T	48MI1000	3618-0215
Gray	4	101.6	5.06	128.5	500	34.5	10	48	5.32	50	CTN	T	64MI1000	3618-0225

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PROPER HOSE SELECTION

HOSE FINDER

Mine Master™ Air Drill 500FR

Formerly - 500 MP Air Drill



RECOMMENDED FOR: Heavy-duty, high-pressure use on industrial, construction and pneumatic mining applications requiring wire-braided hose with an oil-resistant tube and abrasion-resistant cover.

TEMPERATURE: -22°F to +180°F (-30°C to +82°C) continuous service.

CONSTRUCTION: **Tube:** Nitrile - Type C; Medium Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Braided, steel wire.
Cover: Modified Nitrile - Type C2; Abrasion Resistant; Perforated; Black or yellow with yellow stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 14 Interlocking, Ground Joint; 15 Interlocking, Washer Joint; 18 Universal Quick Acting; 35 Four-Finger Boss Clamp; 80 Gates GSP™ (for 1 1/2" or 2" only). [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Meets MSHA Flame-resistant.
Tube: ARPM Class B (Medium Oil Resistance)
Cover: ARPM Class B (Medium Oil Resistance)

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1 1/4	31.8	1.74	44.2	500	34.5	15	10	.86	100	CTN	T	20MI1100	3618-0803
Black	1 1/2	38.1	1.99	50.5	500	34.5	15	12	1.00	100	CTN	T	24MI1100	3618-0804
Black	2	50.8	2.50	63.5	500	34.5	15	14	1.39	100	CTN	T	32MI1100	3618-0805
Black	2 1/2	63.5	3.14	79.8	500	34.5	10	30	2.15	100	CTN	T	40MI1100	3618-0806
Black	3	76.2	3.67	93.2	500	34.5	10	36	2.77	100	CTN	T	48MI1100	3618-0807
Yellow	3/4	19.1	1.11	28.2	500	34.5	25	6	.41	100	CTN	T	12MI1100	3618-0808
Yellow	1	25.4	1.45	36.8	500	34.5	25	8	.65	100	CTN	T	16MI1100	3618-0809
Yellow	1 1/4	31.8	1.74	44.2	500	34.5	15	10	.85	100	CTN	T	20MI1101	3618-0810
Yellow	1 1/2	38.1	1.99	50.5	500	34.5	15	12	1.00	100	CTN	T	24MI1101	3618-0811
Yellow	2	50.8	2.50	63.5	500	34.5	15	14	1.39	100	CTN	T	32MI1101	3618-0812
Yellow	2 1/2	63.5	3.14	79.8	500	34.5	10	30	2.15	100	CTN	T	40MI1101	3618-0813
Yellow	3	76.2	3.67	93.2	500	34.5	10	36	2.77	100	CTN	T	48MI1101	3618-0814

NOTE: For 4" I.D. see Mine Master™ Air Drill.



Mine Master™ Rock Dust 100SD

Formerly - Rock Dust



RECOMMENDED FOR: Rock dusting applications in underground coal mines where limestone dust (or other inert rock-derived dusting agent) is sprayed in order to isolate exposed coal surfaces from potential heat or ignition sources. Lightweight and flexible for easy handling.

TEMPERATURE: -40°F to +180°F (-40°C to +82°C).

CONSTRUCTION: **Tube:** Natural Rubber - Type D; Static-conductive; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: Modified Nitrile - Type C2; Wrapped; Black with yellow stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 1 Long Shank; 6 Malleable Iron Pin Lug; 7 Combination Nipple; 21 Preformed Band Clamps; 49 Industrial Quick-Connecting; 78 Crimp Sleeves. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Meets MSHA Flame-resistant.
Tube: ARPM Class B (Medium Oil Resistance)
Cover: ARPM Class B (Medium Oil Resistance)

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1 1/4	31.8	1.67	42.4	100	6.9	30	6	.56	100	PLT	T	20MI1800	4691-0700
Black	1 1/2	38.1	1.92	48.8	100	6.9	30	8	.66	100	PLT	T	24MI1800	4691-0701
Black	2	50.8	2.41	61.2	100	6.9	30	10	.89	100	PLT	T	32MI1800	4691-0702

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PROPER HOSE SELECTION

HOSE FINDER

CHARACTERISTICS OF OILFIELD AND FUEL TRANSFER HOSES

Ratings are for normal or usual range of the specified compounds. Many are modified to meet the needs of specific applications.

PLEASE READ AND OBSERVE ALL WARNINGS AND CAUTION STATEMENTS THROUGHOUT THIS CATALOG.

Gates Type	Common Name or Trade Name	Elastomer	Weather / Ozone	Abrasion
A	Chloroprene (Neoprene) cover	Polychloroprene	Very Good	Very Good
C	Buna-N Nitrile	Acrylonitrile Butadiene	Poor	Fair
C1	HNBR	Hydrogenated Nitrile	Very Good	Good
C2	Modified Nitrile	Acrylonitrile Butadiene	Good	Good
C4	Modified Carboxylated Nitrile	Carboxylated Nitrile	Good	Excellent
D	Gum Rubber, Buna-S	Natural Rubber or Styrene Butadiene	Fair	Excellent
G	PVC	Polyvinyl Chloride (plasticized)	Excellent	Very Good
J	CPE	Chlorinated Polyethylene	Very Good	Good
L	UHMWPE	Ultra-High Molecular Weight Polyethylene	Very Good	Excellent
U	Urethane	Polyurethane	Very Good	Excellent

NOTE: Ratings are for general or typical elastomer formulations. Some hoses have special formulations that change the performance of these characteristics to be more suitable for certain applications, such as improved temperature range. For selection assistance, refer to product catalog pages and also the Hose Finder and Chemical Resistance sections at the back of this catalog.

Contact Gates Product Application Engineering
303-744-5070 - fppasupport@gates.com

PHYSICAL PROPERTIES AFTER EXPOSURE TO OIL

ARPM Designation	Oil Resistance	Volume Change Maximum	Tensile Strength Retained
Class A	High	25%	80%
Class B	Medium	65%	50%
Class C	Limited	100%	40%

Hose Family Name	Tube Type	Cover Type	Smooth or Corrugated	Petroleum Oils	Bio/Ethanol Fuels	Refined Fuels	MegaFlex Option
Black Gold™ Super-Vac SD	Nitrile	SBR	Corrugated	Yes	-	-	Yes
Black Gold ABS Mud and Oil 300 SD/D	Nitrile	Chloroprene	Smooth	Yes	-	-	-
Black Gold Fuel 300 SD/D	Nitrile	Chloroprene	Smooth	Yes	-	Yes	-
Black Gold Oilfield Service 400 SD/D	Nitrile	Chloroprene	Smooth	Yes	-	Yes	-
Black Gold Oilfield Service 400 SD/D MegaTuff™	Nitrile	UHMWPE	Smooth	Yes	-	Yes	-
Black Gold Oilfield Service 400 D UltraBrasion™	Nitrile	*Carboxylate Nitrile	Smooth	Yes	-	Yes	-
Black Gold Oilfield Service 100/150 SD	Nitrile	SBR	Corrugated	Yes	-	-	-
Fuel Master™ XTreme™ SD	Nitrile	Modified Nitrile	Both	Yes	Yes	-	Yes
Fuel Master 150 SD/D	Nitrile	Chloroprene	Both	Yes	-	Yes	Yes
Fuel Master PVC 65 SD	Modified Nitrile	PVC	Corrugated	Yes	Yes	Yes	-
Fuel Oil Delivery	Nitrile	Modified Nitrile	Smooth	Yes	-	-	-
Fuel Curb Pump	Nitrile	CPE	Smooth	Yes	Yes	Yes	-

*Yellow Carboxylated Nitrile wear indicator layer under black outer cover.

**Black Gold™ ABS Chemical Plus XLPE 250SD**

RECOMMENDED FOR: Transfer of chemical products from a supply ship to an offshore drilling rig or platform; and for transfer applications on offshore or onshore drilling rigs or platforms. See Gates Chemical Resistance Table for proper hose selection.

TEMPERATURE: -40°F to +250°F (-40°C to +121°C).

CONSTRUCTION: **Tube:** Gatron™ Modified Cross-linked Polyethylene - Type K; Limited Oil Resistance; Clear. [See characteristics table.](#)

Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.

Cover: EPDM - Type P; Corrugated; Black with purple stripe. [See characteristics table.](#)

Design Factor: 5:1

COUPLINGS: 71 Permanent Swaged or Crimped. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: ABS approved.

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1	25.4	1.50	38.1	250	17.2	30	5	.56	200	PLT	T	16BG4000	4695-0933
Black	2	50.8	2.58	65.5	250	17.2	30	10	1.19	200	PLT	T	32BG4000	4695-0934
Black	3	76.2	3.71	94.2	250	17.2	30	18	2.37	200	PLT	T	48BG4000	4695-0935

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PROPER HOSE SELECTION

HOSE FINDER

Black Gold™ ABS Drill Water Hose 300SD



RECOMMENDED FOR: Transfer of non-potable water or liquids not containing oils or chemicals from a supply ship to an offshore drilling rig or platform. Various water-based transfer applications for offshore or onshore work sites. The heavy-duty reinforcement is designed to survive extreme oilfield application requirements. The specially compounded cover material is designed to withstand the harshest environment including abrasion and weathering.

CAUTION: Not for drinking water or food products.

TEMPERATURE: -40°F to +150°F (-40°C to +66°C) continuous service.

CONSTRUCTION: **Tube:** EPDM - Type P; Limited Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: EPDM - Type P; Wrapped; Black with green stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 71 Permanent Swaged or Crimped. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: ABS approved.

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	2	50.8	2.62	66.5	300	20.7	30	12	1.19	200	PLT	T	32BG1100	4686-0028
Black	3	76.2	3.62	91.9	300	20.7	30	24	2.62	200	PLT	T	48BG1100	4686-0029
Black	4	101.6	4.62	117.3	300	20.7	30	30	3.18	200	PLT	T	64BG1100	4686-0030
Black	5	127.0	5.92	150.4	300	20.7	30	48	5.05	100	PLT	T	80BG1100	4686-0066
Black	6	152.4	6.92	175.8	300	20.7	30	60	7.53	100	PLT	T	96BG1100	4686-0067

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**Black Gold™ Slim Hole Rotary (1500-5000)**

Formerly - Powerbraid™ Plus



RECOMMENDED FOR: Rotary applications on work over rigs and slim hole or seismograph rigs designed to operate at a maximum of 1,500 to 5,000 PSI rated working pressure depending on size. Applications on small or medium-size drilling rigs used for water well operations, water well core drill, blast or shot hole operations. For normal mud applications on small to medium-sized rigs where flexible connections are needed for pressure lines conveying mud.

TEMPERATURE: -40°F to +180°F (-40°C to +82°C) continuous service.

CONSTRUCTION: **Tube:** Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Braided or spiral steel wire.
Cover: Chloroprene (Neoprene) - Type A; Perforated; Black with yellow stripe. [See characteristics table.](#)
Design Factor: 2.5:1

COUPLINGS: 1 1/4" I.D. 5,000 psi. Gates 20GS-20MPAPI (7347-76955)
 1" I.D. 5,000 psi. Gates 16GS-16MPLH (7347-76545)
 2 1/2", 3" and 4" - Swaged-On Permanent Couplings - API threads on connecting end of stem for easy flange attachment. Strong collar to anchor ferrule to stem. Electroplated steel. Also available in stainless steel and other special metals. Wildman Type Q reusable couplings.
 4" - Use George Myer Stem and Ferrule.
 71 Permanent (Mulconroy - API threads only) or reusable male couplings (Wildman - API threads only).
 77 Gates GSM™ with Integral 2" Fig. 1502 Hammer Unions or 80 Gates GSP™ (1 1/2" or 2" only).
 Sources: Dixon Valve and Coupling Co., George Myer Co, Inc.
[Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Meets MSHA Flame-resistant.
Tube: ARPM Class A (High Oil Resistance)

5000 psi Working Pressure

Color	Hose I.D. (in)	Hose I.D. (mm)	Hose O.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	1	25.4	1.53	38.9	5000	344.7	12	1.49	200	CTN	T	16BG9000	3670-0665
Black	1 1/4	31.8	1.97	50.0	5000	344.7	17	2.67	200	CTN	T	20BG9000	3670-0670
Black	1 1/2	38.1	2.26	57.4	5000	344.7	20	3.33	200	CTN	T	24BG9000	3670-0675
Black	2	50.8	2.80	71.1	5000	344.7	25	4.94	50	CTN	T	32BG9100	3670-0679
Black	2	50.8	2.80	71.1	5000	344.7	25	4.61	150	CTN	T	32BG9101	3670-0845
Black	2	50.8	2.80	71.1	5000	344.7	25	4.94	200	CTN	T	32BG9102	3670-0680

1500-3000 psi Working Pressure

Color	Hose I.D. (in)	Hose I.D. (mm)	Hose O.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	2	50.8	2.63	66.8	3000	206.8	25	2.95	50	CTN	T	32BG9000	3670-0655
Black	2	50.8	2.63	66.8	3000	206.8	25	2.95	200	CTN	T	32BG9001	3670-0660
Black	2 1/2	63.5	3.38	85.9	2500	172.4	30	3.60	50	CTN	T	40BG9000	3670-0656
Black	3	76.2	3.90	99.1	2000	137.9	36	4.74	50	CTN	T	48BG9000	3670-0657
Black	4	101.6	5.06	128.5	1500	103.4	48	7.22	50	CTN	T	64BG9000	3670-0701

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PROPER HOSE SELECTION

HOSE FINDER

Black Gold™ ABS Potable Water Hose 300SD



RECOMMENDED FOR: Transfer of potable water, non-potable water or liquids not containing oils or chemicals from a supply ship to an offshore drilling rig or platform. Various water-based transfer applications for offshore or onshore work sites. The food-grade tube meets FDA requirements and will not impart taste to drinking water. The heavy-duty reinforcement is designed to survive extreme oilfield application requirements. The specially compounded cover material is designed to withstand the harshest environment including abrasion and weathering.

CAUTION: Do not alternate between potable water and non-potable liquid transfer to avoid cross-contamination of drinking water or food products.

TEMPERATURE: -40°F to +150°F (-40°C to +66°C).

CONSTRUCTION:
Tube: Natural Rubber - Type D2; Limited Oil Resistance; White. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: EPDM - Type P; Smooth; Orange with blue stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 71 Permanent Swaged or Crimped. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: ABS approved.
 Food-grade tube meets FDA requirements. Hose designed to withstand 2.5 ton tensile force.

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length				
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Orange	4	101.6	4.96	126.0	300	20.7	29	28	3.68	200	PLT	T	64BG1701	3132-5013
Orange	5	127.0	6.09	154.7	300	20.7	29	36	5.05	100	PLT	U	80BG1700	3132-5032
Orange	6	152.4	7.16	181.9	300	20.7	29	40	6.69	100	PLT	T	96BG1700	3132-5033

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HOSE FINDER



Black Gold™ ABS Potable Water Hose 300D



RECOMMENDED FOR: Transfer of potable water, non-potable water or liquids not containing oils or chemicals from a supply ship to an offshore drilling rig or platform. Various water-based transfer applications for offshore or onshore work sites. The food-grade tube meets FDA requirements and will not impart taste to drinking water. The heavy-duty reinforcement is designed to survive extreme oilfield application requirements. The specially compounded cover material is designed to withstand the harshest environment including abrasion and weathering.

CAUTION: Do not alternate between potable water and non-potable liquid transfer to avoid cross-contamination of drinking water or food products.

TEMPERATURE: -40°F to +150°F (-40°C to +66°C).

CONSTRUCTION: **Tube:** Natural Rubber - Type D2; Limited Oil Resistance; White. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, static filament.
Cover: EPDM - Type P; Smooth; Orange with blue stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 71 Permanent Swaged or Crimped. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: ABS approved.
Food-grade tube meets FDA requirements. Hose designed to withstand 2.5 ton tensile force.
Tube: ARPM Class A (High Oil Resistance)

Color	Hose I.D.		Hose O.D.		Max. W.P.		Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(Lbs.)	(ft)				
Orange	3	76.2	3.74	95.0	300	20.7	1.82	200	PLT	T	48BG1700	3132-5011

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PROPER HOSE SELECTION

HOSE FINDER

Black Gold™ Potable Water Hose (150-300) D

Formerly - Aquarius™



RECOMMENDED FOR: Transfer of potable water, non-potable water or liquids not containing oils or chemicals and applications which require a lightweight, flexible hose with a tight bend radius and a high rated working pressure in long continuous lengths.

TEMPERATURE: -40°F to +150°F (-40°C to +66°C) continuous service.

CONSTRUCTION: **Tube:** Natural Rubber - Type D2; Food Grade; Limited Oil Resistance; White. [See characteristics table.](#)

Reinforcement: Multiple plies, synthetic textile.

Cover: EPDM - Type P; Abrasion, Weather Resistant; Smooth; Tan with blue stripe. [See characteristics table.](#)

Design Factor: 4:1

COUPLINGS: 14 Interlocking, Ground Joint; 15 Interlocking, Washer Joint; 71 Permanent Swaged or Crimped; 8 Tri-Lokt. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: **Tube:** Meets applicable FDA requirements

300 psi Working Pressure

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)								
Tan	1	25.4	1.53	38.9	300	20.7	15	10	.56	200	PLT	T	16BG7000	3132-0803
Tan	2	50.8	2.70	68.6	300	20.7	10	14	1.49	200	PLT	T	32BG7000	3132-0815

200 psi Working Pressure

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)								
Tan	3	76.2	3.70	94.0	200	13.8	10	21	2.15	200	PLT	T	48BG7000	3132-0823

150 psi Working Pressure

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)								
Tan	4	101.6	4.70	119.4	150	10.3	10	28	2.74	200	PLT	T	64BG7000	3132-0832

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PROPER HOSE SELECTION

HOSE FINDER



Black Gold™ ABS Bulk Material Hose 300SD



RECOMMENDED FOR: Transfer of abrasive materials such as barite and cement from a supply ship to an offshore drilling rig or platform; and for transfer applications on offshore or onshore drilling rigs or platforms. The heavy-duty reinforcement is designed to survive extreme oilfield application requirements. The specially compounded cover material is designed to withstand the harshest environment including abrasion and weathering.

CAUTION: The hose tube is specially compounded to conduct electricity. No static wires are required. (The helical wires in the SD version can be connected to the couplings for extra protection.)

TEMPERATURE: -40°F to +150°F (-40°C to +66°C).

CONSTRUCTION: **Tube:** Natural Rubber - Type D3; Static-conductive; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: SBR - Type D; Smooth; Black with yellow stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 71 Permanent Swaged or Crimped. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: ABS approved.
Hose designed to withstand 6.0 ton tensile force.

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	3	76.2	4.23	107.4	300	20.7	29	32	3.47	200	PLT	T	48BG1001	4691-0017
Black	5	127.0	6.33	160.8	300	20.7	29	51	6.02	100	PLT	T	80BG1002	4691-0039
Black	5	127.0	6.33	160.8	300	20.7	29	51	6.02	200	PLT	T	80BG1003	4691-0019
Black	6	152.4	7.33	186.2	300	20.7	29	60	6.02	100	PLT	T	96BG1001	4691-0040

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PROPER HOSE SELECTION

HOSE FINDER

Black Gold™ ABS Bulk Material Hose 300D



RECOMMENDED FOR: Transfer of abrasive materials such as barite and cement from a supply ship to an offshore drilling rig or platform; and for transfer applications on offshore or onshore drilling rigs or platforms. The heavy-duty reinforcement is designed to survive extreme oilfield application requirements. The specially compounded cover material is designed to withstand the harshest environment including abrasion and weathering.

CAUTION: The hose tube is specially compounded to conduct electricity. No static wires are required. (The helical wires in the SD version can be connected to the couplings for extra protection.)

TEMPERATURE: -40°F to +150°F (-40°C to +66°C).

CONSTRUCTION: **Tube:** Natural Rubber - Type D3; Static-conductive; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, static filament.
Cover: SBR - Type D; Smooth; Black with yellow stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 71 Permanent Swaged or Crimped. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: ABS approved.
Hose designed to withstand 6.0 ton tensile force.

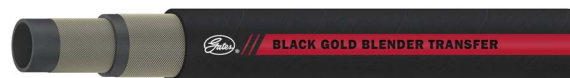
	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	3	76.2	3.98	101.1	300	20.7	10	21	2.64	200	PLT	T	48BG1000	3129-1000
Black	5	127.0	6.14	156.0	300	20.7	10	35	4.67	100	PLT	T	80BG1000	3129-1013
Black	6	152.4	7.13	181.1	300	20.7	10	42	5.51	100	PLT	T	96BG1000	3129-1014

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PROPER HOSE SELECTION
HOSE FINDER



Black Gold™ Blender Transfer Hose 150D

Formerly - Blender Transfer



RECOMMENDED FOR: Transfer of water, petroleum-based fluids, dilute acids, chemicals and abrasive slurries used in oil and gas well stimulation and fracking.

TEMPERATURE: -40°F to +180°F (-40°C to +82°C).

CONSTRUCTION: **Tube:** Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile.
Cover: Chloroprene (Neoprene) - Type A; Smooth; Black with red stripe. [See characteristics table.](#)
Design Factor: 4:1

STANDARDS: **Tube:** ARPM Class A (High Oil Resistance)

Color	Hose I.D.		Hose O.D.		Max. W.P.		Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(Lbs.)	(ft)				
Black	4	101.6	4.73	120.1	150	10.3	3.07	100	PLT	T	64BG1800	4110-0400
Black	5	127.0	5.73	145.5	150	10.3	3.77	100	PLT	T	80BG1800	4110-0500

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PROPER HOSE SELECTION

HOSE FINDER

Black Gold™ Super-Vac™ Hose (60-150) SD

Formerly - Super-Vac™



RECOMMENDED FOR: Tank truck service, including oilfield vacuum tank, where full suction is required. Ideal for applications handling crude oil, salt and fresh water, tank bottoms, drilling mud, dilute solutions of hydrochloric acid, and sewage transfer.

CAUTION: Not recommended for refined petroleum products such as gasoline or diesel. Drain hose after use.

TEMPERATURE: -40°F to +180°F (-40°C to +82°C) continuous service.

CONSTRUCTION: **Tube:** Nitrile - Type C; Medium Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: SBR - Type D; Corrugated; Black with blue stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 6 Malleable Iron Pin Lug (Ambient temperatures only); 7 Combination Nipple (Ambient temperatures only); 78 Crimp Sleeves (Ambient temperatures only). [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: **Tube:** ARPM Class B (Medium Oil Resistance)

150 psi Working Pressure

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1	25.4	1.42	36.1	150	10.3	30	3	.52	100	PLT	T	16BG8100	4688-0651
Black	1 1/4	31.8	1.68	42.7	150	10.3	30	3	.67	100	PLT	T	20BG8100	4688-0653
Black	1 1/2	38.1	1.97	50.0	150	10.3	30	3	.77	100	PLT	T	24BG8100	4688-0656
Black	2	50.8	2.47	62.7	150	10.3	30	4	.99	100	PLT	T	32BG8100	4688-0665
Black	2	50.8	2.47	62.7	150	10.3	30	4	.94	200	PLT	T	32BG8101	4688-0668
Black	2 1/2	63.5	2.99	75.9	150	10.3	30	5	1.52	100	PLT	T	40BG8100	4688-0675
Black	3	76.2	3.52	89.4	150	10.3	30	6	1.89	100	PLT	T	48BG8100	4688-0680

100 psi Working Pressure

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	4	101.6	4.52	114.8	100	6.9	30	8	2.47	100	PLT	T	64BG8100	4688-0690
Black	4	101.6	4.52	114.8	100	6.9	30	8	2.29	200	PLT	T	64BG8101	4688-2178

60 psi Working Pressure

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	6	152.4	6.67	169.4	60	4.1	30	18	4.56	20	PLT	T	96BG8100	4688-0697
Black	6	152.4	6.67	169.4	60	4.1	30	18	4.56	50	PLT	T	96BG8101	4688-0698
Black	6	152.4	6.67	169.4	60	4.1	30	18	4.29	100	PLT	T	96BG8102	4688-1613
Black	6	152.4	6.67	169.4	60	4.1	30	18	4.56	200	PLT	T	96BG8103	4688-0702

**Black Gold™ Super-Vac™ MegaFlex™ Hose (60-200) SD**

Formerly - Super-Vac™ MegaFlex™



RECOMMENDED FOR: Tank truck service, including oilfield vacuum tank, where full suction is required. Ideal for applications handling crude oil, salt and fresh water, tank bottoms, drilling mud, dilute solutions of hydrochloric acid, and sewage transfer.

CAUTION: Not recommended for refined petroleum products such as gasoline or diesel. Drain hose after use.

TEMPERATURE: -40°F to +180°F (-40°C to +82°C) continuous service.

CONSTRUCTION: **Tube:** Nitrile - Type C; Medium Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: SBR - Type D; Corrugated; Black with blue stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 7 Combination Nipple (Ambient temperatures only); 49 Industrial Quick-Connecting (Ambient temperatures only); 73 Permanent Swaged or Crimped (Ambient temperatures only). [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: **Tube:** ARPM Class B (Medium Oil Resistance)

200-400 psi Working Pressure

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	4	101.6	4.52	114.8	200	13.8	30	4	2.12	100	PLT	T	64BG8091	4688-2109
Black	4	101.6	4.52	114.8	200	13.8	30	4	2.29	200	PLT	T	64BG8092	4688-2165
Black	4	101.6	4.52	114.8	400	28	30	4	2.29	100	PLT	T	64BG8090	4688-2108

150 psi Working Pressure

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1	25.4	1.37	34.8	150	10.3	30	1	.42	100	PLT	T	16BG8090	4688-2364
Black	1 1/4	31.8	1.63	41.4	150	10.3	30	2	.54	100	PLT	T	20BG8090	4688-2365
Black	1 1/2	38.1	1.88	47.8	150	10.3	30	2	.63	100	PLT	T	24BG8090	4688-2366
Black	2	50.8	2.39	60.7	150	10.3	30	2	.80	100	PLT	T	32BG8090	4688-2104
Black	2	50.8	2.39	60.7	150	10.3	30	2	1.00	200	PLT	T	32BG8091	4688-2105
Black	2 1/2	63.5	2.96	75.2	150	10.3	30	3	1.28	100	PLT	T	40BG8090	4688-2367
Black	3	76.2	3.47	88.1	150	10.3	30	3	1.33	100	PLT	T	48BG8090	4688-2107
Black	3	76.2	3.47	88.1	150	10.3	30	3	1.77	200	PLT	T	48BG8091	4688-2164

60 psi Working Pressure

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	6	152.4	6.59	167.4	60	4.1	30	12	3.89	20	PLT	T	96BG8090	4688-2385
Black	6	152.4	6.59	167.4	60	4.1	30	12	3.89	50	PLT	T	96BG8091	4688-2368
Black	6	152.4	6.59	167.4	60	4.1	30	12	3.89	100	PLT	T	96BG8092	4688-2386

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PROPER HOSE SELECTION

HOSE FINDER

Black Gold™ Oilfield Vacuum Hose (100-150) SD

Formerly - Oilfield Vacuum



RECOMMENDED FOR: An economical, lightweight hose designed for oilfield waste pit recovery, tank truck service, including oilfield vacuum truck, where full suction or rated working pressures are required. Ideal for applications handling crude oil, salt and fresh water, tank bottoms, drilling mud, dilute solutions of hydrochloric acids and sewage transfer. Reference Gates Chemical Resistance Table.

CAUTION: Not recommended for refined petroleum products such as gasoline or diesel. Drain hose after use.

TEMPERATURE: -40°F to +150°F (-40°C to +66°C) continuous service. NOTE: Diesel fuel normally conveyed below +120°F (+49°C).

CONSTRUCTION: **Tube:** Nitrile - Type C; Medium Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: SBR - Type D; Corrugated; Black with blue stripe. [See characteristics table.](#)
Design Factor: 3:1

COUPLINGS: 6 Malleable Iron Pin Lug (Ambient temperatures only); 7 Combination Nipple (Ambient temperatures only); 78 Crimp Sleeves (Ambient temperatures only). [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: **Tube:** ARPM Class B (Medium Oil Resistance)

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	2	50.8	2.47	62.7	150	10.3	30	4	1.05	100	PLT	T	32BG8000	4688-1761
Black	3	76.2	3.50	88.9	150	10.3	30	6	2.17	100	PLT	T	48BG8000	4688-1762
Black	4	101.6	4.52	114.8	100	6.9	30	8	2.14	100	PLT	T	64BG8000	4688-1763



Black Gold™ ABS Mud and Oil Hose 300SD



RECOMMENDED FOR: Transfer of abrasive, water-based and petroleum-based drilling fluids from a supply ship to an offshore drilling rig or platform; and for transfer applications on offshore or onshore drilling rigs or platforms. The nitrile tube material is designed to provide chemical resistance to petroleum-based fluids and is made with extra thickness to resist abrasion. It uses the same tube compound as Gates Black Gold™ Grade D & E Rotary & Vibrator hoses. The heavy-duty reinforcement is designed to survive extreme oilfield application requirements. The neoprene cover material is designed to withstand the harshest offshore environment including abrasion, weathering (cracks) and extra chemical-resistance for any petroleum products that may come in contact with the cover.

CAUTION: Not recommended for transferring refined petroleum products such as gasoline.

TEMPERATURE: -40°F to +180°F (-40°C to +82°C).

CONSTRUCTION: **Tube:** Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: Chloroprene (Neoprene) - Type A; High Oil Resistance; Smooth; Black with white stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 71 Permanent Swaged or Crimped. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: ABS approved.
Tube: ARPM Class A (High Oil Resistance)
Cover: ARPM Class A (High Oil Resistance)

Color	Hose I.D. (in)	Hose I.D. (mm)	Hose O.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	2	50.8	2.87	72.9	300	20.7	30	24	1.88	200	PLT	T	32BG1601	4689-0001
Black	3	76.2	3.85	97.8	300	20.7	30	32	2.83	200	PLT	T	48BG1601	4689-0005
Black	4	101.6	5.10	129.5	300	20.7	30	42	4.48	200	PLT	T	64BG1601	4689-0002
Black	6	152.4	7.40	188.0	300	20.7	30	60	8.59	100	PLT	T	96BG1602	4689-0007
Black	6	152.4	7.40	188.0	300	20.7	30	60	8.59	200	PLT	T	96BG1603	4689-0004

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HOSE FINDER

Black Gold™ ABS Mud and Oil Hose 300D



RECOMMENDED FOR: Transfer of abrasive, water-based and petroleum-based drilling fluids from a supply ship to an offshore drilling rig or platform; and for transfer applications on offshore or onshore drilling rigs or platforms. The nitrile tube material is designed to provide chemical resistance to petroleum-based fluids and is made with extra thickness to resist abrasion. It uses the same tube compound as Gates Black Gold™ Grade D & E Rotary & Vibrator hoses. The heavy-duty reinforcement is designed to survive extreme oilfield application requirements. The neoprene cover material is designed to withstand the harshest offshore environment including abrasion, weathering (cracks) and extra chemical-resistance for any petroleum products that may come in contact with the cover.

CAUTION: Not recommended for transferring refined petroleum products such as gasoline.

TEMPERATURE: -40°F to +180°F (-40°C to +82°C).

CONSTRUCTION:
Tube: Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, static filament.
Cover: Chloroprene (Neoprene) - Type A; High Oil Resistance; Smooth; Black with white stripe. [See characteristics table.](#)
Design Factor: 4:1

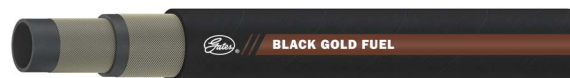
COUPLINGS: 71 Permanent Swaged or Crimped. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: ABS approved.
Tube: ARPM Class A (High Oil Resistance)
Cover: ARPM Class A (High Oil Resistance)

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	3	76.2	3.62	91.9	300	20.7	10	21	1.94	200	PLT	T	48BG1600	3150-0504
Black	5	127.0	5.92	150.4	300	20.7	10	35	4.40	100	PLT	T	80BG1600	3150-0509
Black	6	152.4	6.92	175.8	300	20.7	10	42	5.25	100	PLT	T	96BG1600	3150-0508

**Black Gold™ Fuel Hose 300SD**

Formerly - Sea Horse™ HW



RECOMMENDED FOR: Transfer of refined fuels (commercial gasoline, diesel fuel) oils and other petroleum products. Ideal for offshore/onshore transfer applications involving discharge service for diesel oils and other similar petroleum products where an extremely lightweight, flexible hose with a high rated working pressure and a small minimum bend radius is required. Transfer of water, petroleum-based fluids, dilute acids, chemicals and abrasive slurries used in oil and gas well stimulation and fracking.

CAUTION: For Bio-Diesel and other alternative fuel applications, see Fuel Master™ XTreme™. Petroleum transfer hoses may be used with all grades of Bio-Diesel only if the exposure is intermittent and the hose is drained between uses. Transfer hoses are designed for intermittent contact with refined fuels and must be drained after use. Do not convey fuels over +120°F (+49°C).

TEMPERATURE: -40°F to +180°F (-40°C to +82°C) continuous service.

CONSTRUCTION: **Tube:** Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: Chloroprene (Neoprene) - Type A; Smooth; Black with brown stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 14 Interlocking, Ground Joint; 15 Interlocking, Washer Joint; 71 Permanent Swaged or Crimped. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: **Tube:** ARPM Class A (High Oil Resistance)

Color	Hose I.D. (in)	Hose I.D. (mm)	Hose O.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	2	50.8	2.78	70.6	300	20.7	30	10	1.60	200	PLT	T	32BG5002	4688-0584
Black	3	76.2	3.86	98.0	300	20.7	30	18	2.59	200	PLT	T	48BG5000	4688-0585
Black	4	101.6	4.87	123.7	300	20.7	30	24	3.52	200	PLT	T	64BG5000	4688-0587
Black	6	152.4	7.07	179.6	300	20.7	30	36	5.00	100	PLT	T	96BG5000	4688-0589

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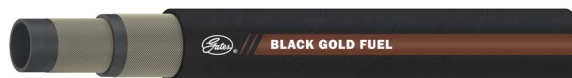
CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

HOSE FINDER

Black Gold™ Fuel Hose 300D

Formerly - Sea Horse™

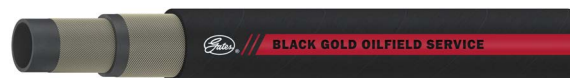


- RECOMMENDED FOR:** Transfer of refined fuels (commercial gasoline, diesel fuel) oils and other petroleum products. Ideal for offshore/onshore transfer applications involving discharge service for diesel oils and other similar petroleum products where an extremely lightweight, flexible hose with a high rated working pressure and a small minimum bend radius is required. Transfer of water, petroleum-based fluids, dilute acids, chemicals and abrasive slurries used in oil and gas well stimulation and fracking.
- CAUTION:** For Bio-Diesel and other alternative fuel applications, see Fuel Master™ XTreme™. Petroleum transfer hoses may be used with all grades of Bio-Diesel only if the exposure is intermittent and the hose is drained between uses. Transfer hoses are designed for intermittent contact with refined fuels and must be drained after use. Do not convey fuels over +120°F (+49°C).
- TEMPERATURE:** -40°F to +180°F (-40°C to +82°C) continuous service.
- CONSTRUCTION:** **Tube:** Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, static filament.
Cover: Chloroprene (Neoprene) - Type A; Smooth; Black with brown stripe. [See characteristics table.](#)
Design Factor: 4:1
- COUPLINGS:** 14 Interlocking, Ground Joint; 15 Interlocking, Washer Joint; 71 Permanent Swaged or Crimped; 26 Internal Expansion - Brass (for 2" and 2 1/2" only). [Reference the Industrial Hose Coupling Selection Overview.](#)
- STANDARDS:** **Tube:** ARPM Class A (High Oil Resistance)

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	2	50.8	2.66	67.6	300	20.7	10	14	2.35	100	PLT	T	32BG5000	4110-0702
Black	2	50.8	2.66	67.6	300	20.7	10	14	1.78	200	PLT	T	32BG5001	4110-0701
Black	3	76.2	3.70	94.0	300	20.7	10	21	2.17	200	PLT	T	48BG5001	4110-0707
Black	4	101.6	4.70	119.4	300	20.7	10	28	3.14	200	PLT	T	64BG5001	4110-0710

**Black Gold™ Oilfield Service Hose 400SD**

Formerly - Oilfield Service 400SD



RECOMMENDED FOR: Transfer of water, petroleum-based fluids, dilute acids, chemicals and abrasive slurries used in oil and gas well stimulation and fracking. Transfer of refined fuels (commercial gasoline, diesel fuel) oils and other petroleum products. Transfer hoses are designed for intermittent contact with refined fuels and must be drained after use. Ideal for offshore/onshore dock hose transfer applications involving suction and discharge service for diesel oils and other similar petroleum products where an extremely light-weight, hardwall, flexible hose with a high rated working pressure and a small minimum bend radius is required. For Bio-Diesel and other alternative fuel applications, see Fuel Master™ XTreme™. Petroleum transfer hoses may be used with all grades of Bio-Diesel only if the exposure is intermittent and the hose is drained between uses.

CAUTION: Do not convey fuels over +120°F (+49°C).

TEMPERATURE: -40°F to +180°F (-40°C to +82°C) continuous service.

CONSTRUCTION: **Tube:** Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: Chloroprene (Neoprene) - Type A; Wrapped; Black with red stripe.
 Carboxylated Nitrile - Type C4; Yellow Carboxylated Nitrile Wear Indicator Layer; Wrapped; Black with red stripe.
 Ultra High Molecular Weight Polyethylene - Type L; Wrapped; Black with red stripe. [See characteristics table.](#)

Design Factor: 4:1

COUPLINGS: 14 Interlocking, Ground Joint; 15 Interlocking, Washer Joint; 71 Permanent Swaged or Crimped. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: **Tube:** ARPM Class A (High Oil Resistance)

Chloroprene (Neoprene) Cover

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	2	50.8	2.84	72.1	400	27.6	30	15	2.03	200	PLT	T	32BG6001	4688-0590
Black	3	76.2	4.00	101.6	400	27.6	30	20	3.66	200	PLT	T	48BG6000	4688-0591
Black	4	101.6	4.99	126.7	400	27.6	30	25	4.64	200	PLT	T	64BG6005	4688-0592

MegaTuff™ UHMWPE Cover (Abrasion-Resistant)

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	4	101.6	5.14	130.6	400	27.6	30	41	3.66	100	PLT	T	64BG6090	4688-2274

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PROPER HOSE SELECTION

HOSE FINDER

Black Gold™ Oilfield Service Hose 400D

Formerly - Oilfield Service 400D



RECOMMENDED FOR: Transfer of water, petroleum-based fluids, dilute acids, chemicals and abrasive slurries used in oil and gas well stimulation and fracking. Transfer of refined fuels (commercial gasoline, diesel fuel) oils and other petroleum products. Transfer hoses are designed for intermittent contact with refined fuels and must be drained after use. Ideal for offshore/onshore dock hose transfer applications involving suction and discharge service for diesel oils and other similar petroleum products where an extremely light-weight, hardwall, flexible hose with a high rated working pressure and a small minimum bend radius is required. For Bio-Diesel and other alternative fuel applications, see Fuel Master™ XTreme™. Petroleum transfer hoses may be used with all grades of Bio-Diesel only if the exposure is intermittent and the hose is drained between uses.

CAUTION: Do not convey fuels over +120°F (+49°C).

TEMPERATURE: -40°F to +180°F (-40°C to +82°C) continuous service.

CONSTRUCTION: **Tube:** Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, static filament.
Cover: Chloroprene (Neoprene) - Type A; Wrapped; Black with red stripe.
 Carboxylated Nitrile - Type C4; Yellow Carboxylated Nitrile Wear Indicator Layer; Wrapped; Black with red stripe.
 Ultra High Molecular Weight Polyethylene - Type L; Wrapped; Black with red stripe. [See characteristics table.](#)

Design Factor: 4:1

COUPLINGS: 14 Interlocking, Ground Joint; 15 Interlocking, Washer Joint; 71 Permanent Swaged or Crimped. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: **Tube:** ARPM Class A (High Oil Resistance)

Chloroprene (Neoprene) Cover

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	3	76.2	3.67	93.2	400	27.6	10	22	1.51	200	PLT	T	48BG6003	4110-0716
Black	4	101.6	4.83	122.7	400	27.6	10	30	3.43	200	PLT	T	64BG6003	4110-0717

UltraBrasion™ Cover with Yellow Carboxylated Nitrile Wear Indicator Layer

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	4	101.6	4.81	122.2	400	27.6	10	30	3.13	100	PLT	T	64BG6002	4110-1110

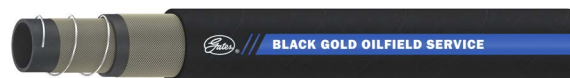
MegaTuff™ UHMWPE Cover (Abrasion-Resistant)

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	3	76.2	3.67	93.2	400	27.6	10	22	1.51	100	PLT	T	48BG6090	4110-1107
Black	3	76.2	3.67	93.2	400	27.6	10	22	1.51	200	PLT	T	48BG6091	4110-1101
Black	4	101.6	4.84	122.9	400	27.6	10	30	3.17	100	PLT	T	64BG6091	4110-1108
Black	4	101.6	4.84	122.9	400	27.6	10	30	3.10	200	PLT	T	64BG6092	4110-1102



Black Gold™ Oilfield Service SD Hose

Formerly - Oilfield Service 100SD



RECOMMENDED FOR: Heavy-duty suction and discharge applications handling crude oil, salt and fresh water, tank sediments, drilling mud and mild chemicals for oilfield applications such as frac tank connections.

CAUTION: Service life of transfer hoses can be extended by draining hoses after use.

TEMPERATURE: -40°F to +180°F (-40°C to +82°C) continuous service.

CONSTRUCTION: **Tube:** Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: SBR/Nitrile - Type D; Limited Oil Resistance; Smooth; Black with blue stripe. [See characteristics table.](#)
Design Factor: 3:1

COUPLINGS: 7 Combination Nipple; 21 Preformed Band Clamps; 49 Industrial Quick-Connecting; 61 Center Punch. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: **Tube:** ARPM Class A (High Oil Resistance)
Cover: ARPM Class C (Limited Oil Resistance)

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	8	203.2	8.74	222.0	100	6.9	30	24	305.29	50	STRT	T	128BG6000	4688-2026

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PROPER HOSE SELECTION

HOSE FINDER

Black Gold™ Oilfield Frac Hose 400SD



RECOMMENDED FOR: Heavy-duty, rugged hose that can serve applications such as transfer of hydraulic fracturing fluids, abrasive slurries and high-pressure water applications in oil and gas well stimulation and fracking. Can handle waste water that has gas or petroleum impurities.

TEMPERATURE: -40°F to +180°F (-40°C to +82°C).

CONSTRUCTION:
Tube: Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: SBR - Type D; Abrasion Resistant; Smooth; Black with white stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 71 Permanent Swaged or Crimped; 21 Preformed Band Clamps (Pressure needed is 100 psi or below). [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Gates proprietary design.
Tube: ARPM Class A (High Oil Resistance)

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)								
Black	4	101.6	4.78	121.4	400	27.6	30	38	3.92	100	PLT	T	64BG6102	4688-2222
Black	4	101.6	4.78	121.4	400	27.6	30	38	3.92	200	PLT	T	64BG6103	4688-2223

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PROPER HOSE SELECTION

HOSE FINDER



Black Gold™ Oilfield Frac Hose 400D



RECOMMENDED FOR: Transfer of abrasive slurries used in oil and gas well stimulation and fracking, high-pressure water applications.

TEMPERATURE: -40°F to +180°F (-40°C to +82°C).

CONSTRUCTION: **Tube:** Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, static filament.
Cover: SBR - Type D; Abrasion Resistant; Smooth; Black with white stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 71 Permanent Swaged or Crimped; 21 Preformed Band Clamps (Pressure needed is 100 psi or below). [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Gates proprietary design.
Tube: ARPM Class A (High Oil Resistance)

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	4	101.6	4.78	121.4	400	27.6	10	30	2.81	100	PLT	T	64BG6100	4110-0009
Black	4	101.6	4.78	121.4	400	27.6	10	30	2.81	200	PLT	T	64BG6101	4110-0010

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PROPER HOSE SELECTION

HOSE FINDER

CHARACTERISTICS OF PETROLEUM AND FUEL TRANSFER HOSES

Ratings are for normal or usual range of the specified compounds. Many are modified to meet the needs of specific applications.

PLEASE READ AND OBSERVE ALL WARNINGS AND CAUTION STATEMENTS THROUGHOUT THIS CATALOG.

Gates Type	Common Name or Trade Name	Elastomer	Weather / Ozone	Abrasion
A	Chloroprene (Neoprene) cover	Polychloroprene	Very Good	Very Good
C	Buna-N Nitrile	Acrylonitrile Butadiene	Poor	Fair
C1	HNBR	Hydrogenated Nitrile	Very Good	Good
C2	Modified Nitrile	Acrylonitrile Butadiene	Good	Good
C4	Modified Carboxylated Nitrile	Carboxylated Nitrile	Good	Excellent
D	Gum Rubber, Buna-S	Natural Rubber or Styrene Butadiene	Fair	Excellent
G	PVC	Polyvinyl Chloride (plasticized)	Excellent	Very Good
J	CPE	Chlorinated Polyethylene	Very Good	Good
L	UHMWPE	Ultra-High Molecular Weight Polyethylene	Very Good	Excellent
U	Urethane	Polyurethane	Very Good	Excellent

NOTE: Ratings are for general or typical elastomer formulations. Some hoses have special formulations that change the performance of these characteristics to be more suitable for certain applications, such as improved temperature range. For selection assistance, refer to product catalog pages and also the Hose Finder and Chemical Resistance sections at the back of this catalog.

Contact Gates Product Application Engineering
303-744-5070 - fppasupport@gates.com

PHYSICAL PROPERTIES AFTER EXPOSURE TO OIL

ARPM Designation	Oil Resistance	Volume Change Maximum	Tensile Strength Retained
Class A	High	25%	80%
Class B	Medium	65%	50%
Class C	Limited	100%	40%

Hose Family Name	Tube Type	Cover Type	Smooth or Corrugated	Petroleum Oils	Bio/Ethanol Fuels	Refined Fuels	MegaFlex Option
Fuel Master™ XTreme™ SD	Nitrile	Modified Nitrile	Both	Yes	Yes	-	Yes
Fuel Master 150 SD/D	Nitrile	Chloroprene	Both	Yes	-	Yes	Yes
Fuel Master PVC 65 SD	Modified Nitrile	PVC	Corrugated	Yes	Yes	Yes	-
Fuel Oil Delivery	Nitrile	Modified Nitrile	Smooth	Yes	-	-	-
Fuel Curb Pump	Nitrile	CPE	Smooth	Yes	Yes	Yes	-
Black Gold™ Super-Vac SD	Nitrile	SBR	Corrugated	Yes	-	-	Yes
Black Gold ABS Mud and Oil 300 SD/D	Nitrile	Chloroprene	Smooth	Yes	-	-	-
Black Gold Fuel 300 SD/D	Nitrile	Chloroprene	Smooth	Yes	-	Yes	-
Black Gold Oilfield Service 400 SD/D	Nitrile	Chloroprene	Smooth	Yes	-	Yes	-
Black Gold Oilfield Service 400 SD/D MegaTuff™	Nitrile	UHMWPE	Smooth	Yes	-	Yes	-
Black Gold Oilfield Service 400 D UltraBration™	Nitrile	*Carboxylate Nitrile	Smooth	Yes	-	Yes	-
Black Gold Oilfield Service 100/150 SD	Nitrile	SBR	Corrugated	Yes	-	-	-

*Yellow Carboxylated Nitrile wear indicator layer under black outer cover.



PETROLEUM HOSE

APPLICATION

Make sure the hose being used is suitable for the application.

- For suction or return lines, use a hose that has an internal support helix and a vacuum rating sufficient for the working conditions.

Couplings

- Use only recommended couplings and methods of attachment.

Recoupling of used hose

- This is generally not recommended, but should be considered only in temporary, emergency situations.
- This should be done only after the condition of the used hose is evaluated. Pressure test at the rated working pressure to verify continued satisfactory performance.
- Recoupling may result in reduced service life.

INSPECTION

Periodically inspect hose assemblies for the following:

Cover abrasion

- A hose cover that is worn through, exposing the reinforcement, is a warning sign of potential hose failure.

Cracks or cuts in the cover

- This indicates that the hose cover has been degraded or abused and the hose should be replaced.

Discoloration of the cover or tube

- This can be a sign of chemical degradation and the hose should be replaced.
- Make sure the hose is compatible with the material being conveyed and with the external environment.

Discoloration of the material (such as fuels) being transported

- This may be a sign of chemical incompatibility resulting in leaching out of some of the hose tube material which could degrade and lower hose performance.
- Material being leached out of the hose tube can result in contamination of the transported material and subsequent contamination of system filters, engine fuel injectors, etc.

Ongoing performance capability

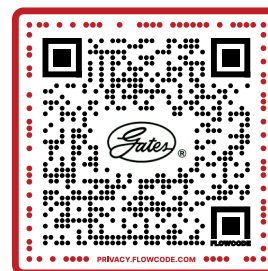
- Periodically test the hose assembly at the rated working pressure to verify continued performance. For fuel hoses, use water as the test fluid, then rinse with the subject fuel before returning to service. Dispose of the test fluid and rinse fluids properly.

Storage after use

- Drain hose completely after use.
- Fuel hose ends should be left open in a well-ventilated area to allow fumes to dissipate.
- Avoid exposure to sunlight, excessive ozone sources such as electrical motors and transformers, extreme temperature and moisture, and external abuse.

Safe hose operations

- Do not exceed the rated working pressure, temperature or minimum bend radius of the hose.
- Support heavy, long lengths of hose being lifted or suspended.
- Avoid any pull force to the coupling end by the hose weight or by pulling to move the hose.
- Avoid bending the hose at the coupling, even if the minimum bend radius is not exceeded. Bending at the coupling compounds stresses already being applied.
- If the hose is being used for continuous transfer, select a hose with a "1" rating for the tube compound in the Chemical Resistance Table in the Industrial Hose Catalog (#39496-000). If the hose is being used for intermittent transfer, select a hose with a "1" or "2" rating.



Downloadable catalogs:

www.gates.com/us/en/knowledge-center/resource-library/product-catalogs.html

- When in doubt, contact Gates Product Application Engineering at 303-744-5070 or fppasupport@gates.com
- Never leave an operating transfer hose unattended.

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PROPER HOSE SELECTION

HOSE FINDER

Fuel Master™ XTreme™ 150SD Hose

Formerly - Longhorn™ AF



- RECOMMENDED FOR:** Fuel Master™ XTreme™ is designed and engineered specifically for constant contact use in the transfer of alternative fuels such as bio-diesel, bio-diesel blends, ethanol and ethanol blends. It can also be used for constant contact use in the transfer of commercial gasolines, diesel fuels, oils and other petroleum products. It is ideal for tank truck, terminal loading and in-plant operations. Warning: Do not convey fuels over +120°F (+49°C). Contact Denver Product Application (303) 744-5070 for use at temperature extremes.
- CAUTION:** Service life of transfer hoses can be extended by draining hoses after use.
- TEMPERATURE:** -30°F to +180°F (-34°C to +82°C). Warning: Do not convey fuels over +120°F (+49°C). Contact Denver Product Application (303) 744-5070 for use at temperature extremes.
- CONSTRUCTION:**
Tube: Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: Modified Nitrile - Type C2; High Oil Resistance; Corrugated; Black with red stripe. [See characteristics table.](#)
Design Factor: 4:1
- COUPLINGS:** 7 Combination Nipple (Ambient temperatures only); 26 Internal Expansion - Brass (Ambient temperatures only); 49 Industrial Quick-Connecting (Ambient temperatures only); 78 Crimp Sleeves (Ambient temperatures only). [Reference the Industrial Hose Coupling Selection Overview.](#)
- STANDARDS:** Meets MSHA Flame-resistant.
Tube: ARPM Class A (High Oil Resistance)
Cover: ARPM Class A (High Oil Resistance)

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1	25.4	1.50	38.1	150	10.3	30	3	.59	100	PLT	T	16FM3000	4688-1718
Black	1	25.4	1.50	38.1	150	10.3	30	3	.59	200	PLT	T	16FM3001	4688-1719
Black	1 1/4	31.8	1.75	44.5	150	10.3	30	4	.70	100	PLT	T	20FM3000	4688-1720
Black	1 1/4	31.8	1.75	44.5	150	10.3	30	4	.70	200	PLT	T	20FM3001	4688-1721
Black	2	50.8	2.52	64.0	150	10.3	30	6	.59	100	PLT	T	32FM3000	4688-1724
Black	2	50.8	2.52	64.0	150	10.3	30	6	.59	200	PLT	T	32FM3001	4688-1725
Black	2 1/2	63.5	3.05	77.5	150	10.3	30	8	1.47	200	PLT	T	40FM3000	4688-1727
Black	3	76.2	3.53	89.7	150	10.3	30	9	1.86	100	PLT	T	48FM3000	4688-1728
Black	3	76.2	3.53	89.7	150	10.3	30	9	1.86	200	PLT	T	48FM3001	4688-1729
Black	4	101.6	4.57	116.1	150	10.3	30	12	2.59	100	PLT	T	64FM3000	4688-1730

**Fuel Master™ XTreme™ 150SD MegaFlex™ Hose**

Formerly - Petroleum Drop 150SD MegaFlex™



RECOMMENDED FOR: Transfer of commercial gasoline, diesel fuels, oils and other petroleum products including bio-diesel, bio-diesel blends, ethanol and ethanol blends. It is ideal for tank truck, terminal loading and in-plant operations and oilfield service truck use where a super flexible, maximum kink-resistant fuel transfer hose is needed. Hose life can be extended by draining hose after use. Warning: Do not convey fuels over +120°F (+49°C). Contact Denver Product Application (303) 744-5070 for use at temperature extremes.

TEMPERATURE: -30°F to +180°F (-34°C to +82°C). Warning: Do not convey fuels over +120°F (+49°C). Contact Denver Product Application (303) 744-5070 for use at temperature extremes.

CONSTRUCTION: **Tube:** Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: Modified Nitrile - Type C2; High Oil Resistance; Corrugated; Red with black stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 7 Combination Nipple; 26 Internal Expansion - Brass; 49 Industrial Quick-Connecting; 73 Permanent Swaged or Crimped; 78 Crimp Sleeves (Crimp Sleeves used with cam and groove type stems). [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: **Tube:** ARPM Class A (High Oil Resistance)

Color	Hose I.D. (in)	Hose I.D. (mm)	Hose O.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Red	1 1/2	38.1	2.02	51.3	150	10.3	30	4	.75	100	PLT	T	24FM3090	4688-2371
Red	2	50.8	2.45	62.2	150	10.3	30	2	.97	100	PLT	T	32FM3090	4688-2011
Red	3	76.2	3.44	87.4	150	10.3	30	3	1.61	100	PLT	T	48FM3090	4688-2015
Red	3	76.2	3.44	87.4	150	10.3	30	3	1.78	200	PLT	T	48FM3091	4688-2016
Red	4	101.6	4.48	113.8	150	10.3	30	4	2.16	100	PLT	T	64FM3090	4688-2017
Red	4	101.6	4.48	113.8	150	10.3	30	4	2.16	200	PLT	T	64FM3091	4688-2018

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PROPER HOSE SELECTION

HOSE FINDER

Fuel Master™ Hose 150SD

Formerly - Longhorn™



RECOMMENDED FOR: Transfer of refined fuels (commercial gasoline and diesel fuel), oils and other petroleum products. Ideal for oilfield service truck use. Warning: Do not convey fuels over +120°F (+49°C).

CAUTION: Service life of transfer hoses can be extended by draining hoses after use. For Bio-Diesel and other alternative fuel applications, see Fuel Master™ XTreme™. Petroleum transfer hoses may be used with all grades of Bio-Diesel only if the exposure is intermittent and the hose is drained between uses.

TEMPERATURE: -40°F to +180°F (-40°C to +82°C). Warning: Do not convey fuels over +120°F (+49°C). Contact Denver Product Application (303) 744-5070 for use at temperature extremes.

CONSTRUCTION: **Tube:** Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: Chloroprene (Neoprene) - Type A; Black or red with red stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 7 Combination Nipple (Ambient temperatures only); 26 Internal Expansion - Brass (Ambient temperatures only); 49 Industrial Quick-Connecting (Ambient temperatures only); 78 Crimp Sleeves (Ambient temperatures only); 81 Gates GL™ (for 1", 2", and 2 1/2" only). [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: **Tube:** ARPM Class A (High Oil Resistance)

Smooth Cover

	Hose I.D.	⊖	Hose O.D.	⊗	Max. W.P.	⌚	Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1	25.4	1.50	38.1	150	10.3	30	3	.54	100	PLT	T	16FM1000	4688-1305
Black	1	25.4	1.50	38.1	150	10.3	30	3	.54	200	PLT	T	16FM1001	4688-0454
Black	1 1/4	31.8	1.75	44.5	150	10.3	30	4	.71	100	PLT	T	20FM1000	4688-1306
Black	1 1/2	38.1	2.02	51.3	150	10.3	30	4	1.05	100	PLT	T	24FM1000	4688-1307
Black	2	50.8	2.52	64.0	150	10.3	30	6	1.34	100	PLT	T	32FM1003	4688-1308
Black	2	50.8	2.52	64.0	150	10.3	30	6	1.34	200	PLT	T	32FM1004	4688-1342
Black	2 1/2	63.5	3.05	77.5	150	10.3	30	8	1.76	100	PLT	T	40FM1001	4688-1309
Black	3	76.2	3.53	89.7	150	10.3	30	9	2.40	100	PLT	T	48FM1003	4688-1310
Black	4	101.6	4.57	116.1	150	10.3	30	12	3.29	100	PLT	T	64FM1003	4688-1311
Black	6	152.4	6.79	172.5	150	10.3	30	17	7.51	100	PLT	T	96FM1003	4688-1465

Corrugated Cover

	Hose I.D.	⊖	Hose O.D.	⊗	Max. W.P.	⌚	Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	2	50.8	2.52	64.0	150	10.3	30	5	1.08	100	PLT	T	32FM1001	4688-1351
Black	2 1/2	63.5	3.05	77.5	150	10.3	30	8	1.40	100	PLT	T	40FM1000	4688-1511
Black	3	76.2	3.53	89.7	150	10.3	30	8	2.67	100	PLT	T	48FM1001	4688-1352
Black	4	101.6	4.64	117.9	150	10.3	30	11	3.14	100	PLT	T	64FM1001	4688-1353
Black	6	152.4	6.79	172.5	150	10.3	30	17	7.51	50	PLT	T	96FM1001	4688-1355
Black	6	152.4	6.79	172.5	150	10.3	30	17	5.46	100	PLT	T	96FM1002	4688-1612
Black	6	152.4	6.79	172.5	150	10.3	30	17	5.91	200	PLT	T	96FM1004	4688-1362
Red	3	76.2	3.53	89.7	150	10.3	30	8	1.95	100	PLT	T	48FM1005	4688-1535

Corrugated Cover - Cut Lengths

	Hose I.D.	⊖	Hose O.D.	⊗	Max. W.P.	⌚	Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ea)				
Black	6	152.4	6.79	172.5	150	10.3	30	17	118.20	20	PLT	T	96FM1000	4688-2194

**Fuel Master™ 150SD MegaFlex™ Hose**

Formerly - Longhorn™ MegaFlex™



RECOMMENDED FOR: Transfer of refined fuels (commercial gasoline and diesel fuel), oils and other petroleum products. It is ideal for tank truck, fuel farm and oilfield service truck use where a super flexible cold weather fuel transfer hose is needed. Hose life can be extended by draining hose after use. Hose maintains flexibility down to -65°F.

CAUTION: Service life of transfer hoses can be extended by draining hoses after use.

TEMPERATURE: -40°F to +180°F (-40°C to +82°C). Warning: Do not convey fuels over +120°F (+49°C). Contact Denver Product Application (303) 744-5070 for use at temperature extremes.

CONSTRUCTION: **Tube:** Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: Chloroprene (Neoprene) - Type A; Corrugated; Black with red stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 7 Combination Nipple (Ambient temperatures only); 26 Internal Expansion - Brass (Ambient temperatures only); 49 Industrial Quick-Connecting (Ambient temperatures only); 78 Crimp Sleeves (Ambient temperatures only). [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: **Tube:** ARPM Class A (High Oil Resistance)

Color	Hose I.D. (in)	Hose I.D. (mm)	Hose O.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	1	25.4	1.41	35.8	150	10.3	30	1	.46	100	PLT	T	16FM1090	4688-1732
Black	1 1/2	38.1	1.90	48.3	150	10.3	30	2	.72	100	PLT	T	24FM1090	4688-2031
Black	2	50.8	2.39	60.7	150	10.3	30	2	.86	100	PLT	T	32FM1090	4688-1733
Black	2	50.8	2.39	60.7	150	10.3	30	2	.87	200	PLT	T	32FM1091	4688-2166
Black	3	76.2	3.44	87.4	150	10.3	30	3	1.45	100	PLT	T	48FM1090	4688-1734
Black	3	76.2	3.44	87.4	150	10.3	30	3	1.47	200	PLT	T	48FM1091	4688-2167
Black	4	101.6	4.48	113.8	150	10.3	30	4	2.29	100	PLT	T	64FM1090	4688-1735
Black	4	101.6	4.48	113.8	150	10.3	30	4	2.29	200	PLT	T	64FM1091	4688-2168
Black	6	152.4	6.55	166.4	150	10.3	30	6	4.03	50	PLT	T	96FM1090	4688-2336
Black	6	152.4	6.55	166.4	150	10.3	30	6	4.15	100	PLT	T	96FM1091	4688-2033

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PROPER HOSE SELECTION

HOSE FINDER

Fuel Master™ 150SD LT MegaFlex™ Hose

Formerly - Arctic Longhorn™ MegaFlex™



RECOMMENDED FOR: Transfer of refined fuels (commercial gasoline and diesel fuel), oils and other petroleum products. It is ideal for tank truck, fuel farm and oilfield service truck use where a super flexible cold weather fuel transfer hose is needed. Hose life can be extended by draining hose after use. Hose maintains flexibility down to -65°F.

CAUTION: Service life of transfer hoses can be extended by draining hoses after use.

TEMPERATURE: -65°F to +180°F (-54°C to +82°C) continuous service.

CONSTRUCTION:
Tube: Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, dual steel wire helix.
Cover: Chloroprene (Neoprene) - Type A; Corrugated; Blue with black stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 7 Combination Nipple (Ambient temperatures only); 26 Internal Expansion - Brass (Ambient temperatures only); 49 Industrial Quick-Connecting (Ambient temperatures only); 78 Crimp Sleeves (Ambient temperatures only). [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: **Tube:** ARPM Class A (High Oil Resistance)

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Blue	2	50.8	2.38	60.5	150	10.3	30	2	.94	100	PLT	T	32FM1092	4688-2040
Blue	2	50.8	2.38	60.5	150	10.3	30	2	1.13	200	PLT	T	32FM1093	4688-2041
Blue	3	76.2	3.44	87.4	150	10.3	30	3	1.39	100	PLT	T	48FM1092	4688-2042
Blue	4	101.6	4.49	114.0	150	10.3	30	4	2.24	100	PLT	T	64FM1092	4688-2044
Blue	4	101.6	4.49	114.0	150	10.3	30	4	1.13	200	PLT	T	64FM1093	4688-2045

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PROPER HOSE SELECTION
HOSE FINDER

**Fuel Master™ Hose 150D**

Formerly - Steer™



RECOMMENDED FOR: Transfer of refined fuels (commercial gasoline and diesel fuel), oils and other petroleum products. Ideal for oilfield service truck use. Warning: Do not convey fuels over +120°F (+49°C).

CAUTION: Service life of transfer hoses can be extended by draining hoses after use. For Bio-Diesel and other alternative fuel applications, see Fuel Master™ XTreme™. Petroleum transfer hoses may be used with all grades of Bio-Diesel only if the exposure is intermittent and the hose is drained between uses.

TEMPERATURE: -40°F to +180°F (-40°C to +82°C). Warning: Do not convey fuels over +120°F (+49°C). Contact Denver Product Application (303) 744-5070 for use at temperature extremes.

CONSTRUCTION: **Tube:** Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile, static filament.
Cover: Chloroprene (Neoprene) - Type A; Smooth; Black with red stripe. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 7 Combination Nipple (Ambient temperatures only); 26 Internal Expansion - Brass (Ambient temperatures only); 49 Industrial Quick-Connecting (Ambient temperatures only); 78 Crimp Sleeves (Ambient temperatures only). [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: **Tube:** ARPM Class A (High Oil Resistance)

Color	Hose I.D.		Hose O.D.		Max. W.P.		Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)						
Black	2	50.8	2.44	62.0	150	10.3	.92	100	PLT	T	32FM1000	4688-1320
Black	2	50.8	2.44	62.0	150	10.3	.92	200	PLT	T	32FM1002	4688-1491
Black	3	76.2	3.45	87.6	150	10.3	1.37	100	PLT	T	48FM1000	4688-1321
Black	3	76.2	3.45	87.6	150	10.3	1.37	200	PLT	T	48FM1002	4688-1530
Black	4	101.6	4.51	114.6	150	10.3	2.03	100	PLT	T	64FM1000	4688-1322
Black	4	101.6	4.51	114.6	150	10.3	2.03	200	PLT	T	64FM1002	4688-1531

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PROPER HOSE SELECTION

HOSE FINDER

Fuel Master™ PVC 65SD Sleeve



RECOMMENDED FOR: Soft black PVC sleeve designed to fit Gates Vapor Recovery Hose and provides a smooth banding surface.

INSTALLATION: Apply the sleeve by twisting in a clockwise direction. Use of an appropriate lubricant, i.e. soapy water solution, will simplify sleeve application and reduce possibility of damage to hose cover. Make sure sleeve is applied prior to coupling insertion.

Color	Hose I.D.		Wt. Per ea	Length	Std. Pack	Gates Item No.
	(in)	(mm)	(Lbs.)	(ea)		
Black	3	76.2	5.13	3	CTN	7744-8103
Black	4	101.6	7.32	3	CTN	7744-8104

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HOSE FINDER



Fuel Master™ PVC Vapor Recovery

Formerly - Master-Flex™ Vapor Recovery



RECOMMENDED FOR: Vapor Recovery for use with Gates Fuel Master™ and Fuel Master™ PVC. Can also be used for ducting, dust and light abrasive material handling.

TEMPERATURE: -30°F to +140°F (-34°C to +60°C) continuous service.

CONSTRUCTION:
Tube: Polyurethane - Type U; Limited Oil Resistance; Clear. [See characteristics table.](#)
Reinforcement: Rigid thermoplastic helix, static filament.
Cover: PVC - Type G; Rigid thermoplastic helix; Clear with yellow helix. [See characteristics table.](#)
Design Factor: N/A

COUPLINGS: 7 Combination Nipple; 26 Internal Expansion - Brass; 49 Industrial Quick-Connecting; 78 Crimp Sleeves. [Reference the Industrial Hose Coupling Selection Overview.](#)

5SD Hose

Color	Hose I.D.		Hose O.D.		Max. W.P.*		MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(in)	(Lbs.)	(ft)				
Clear	1 1/2	38.1	1.88	47.8	5	.3	2	.36	100	CTN	T	24FM2000	7744-7015
Clear	2	50.8	2.43	61.7	5	.3	2	.48	100	CTN	T	32FM2000	7744-7020
Clear	3	76.2	3.54	89.9	5	.3	3	.69	100	CTN	T	48FM2000	7744-7030
Clear	4	101.6	4.56	115.8	5	.3	4	.92	100	CTN	T	64FM2000	7744-7040
Clear	5	127.0	5.51	140.0	5	.3	5	1.13	100	CTN	T	80FM2000	7744-7050
Clear	6	152.4	6.52	165.6	5	.3	6	1.24	100	CTN	T	96FM2000	7744-7060

NOTE: * Working Pressure at +72°F (+22°C).

5SD Sleeve

Color	Hose I.D.		Wt. Per ea	Length	Std. Pack	Pkg Code	Gates Item No.
	(in)	(mm)	(Lbs.)	(ea)			
Gray	3	76.2	5.13	3	CTN	T	7744-8030
Gray	4	101.6	7.32	3	CTN	T	7744-8040

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PROPER HOSE SELECTION

HOSE FINDER

Fuel Master™ Delivery Hose 200

Formerly - Fuel Oil Delivery



RECOMMENDED FOR: Transferring fuel oils and diesel fuel in applications at temperatures as low as -40°F (-40°C). Compatible with Bio-Diesel fuels up to B20. Hose remains flexible to -20°F (-29°C). For home and heavy-duty commercial service where an abrasion-resistant and non-marking cover is required.

CAUTION: Do not use in gasoline transfer applications.

TEMPERATURE: -40°F to +180°F (-40°C to +82°C) continuous service. NOTE: Diesel fuel normally conveyed below +120°F (+49°C).

CONSTRUCTION:
Tube: Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Synthetic textile.
Cover: Carboxylated Nitrile - Type C4; Abrasion Resistant; Non-marking; Red. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 26 Internal Expansion - Brass; 49 Industrial Quick-Connecting; GLX™ Couplings [G44 Series] (for 1" and 1 1/4" only). [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Meets MSHA Flame-resistant.
Tube: ARPM Class A (High Oil Resistance)

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length			Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)	Std. Pack	Pkg Code		
Red	1	25.4	1.50	38.1	200	13.8	10	8	.58	100	REEL	T	16FM5000	3221-0410
Red	1	25.4	1.50	38.1	200	13.8	10	8	.58	125	REEL	T	16FM5001	3221-0411
Red	1	25.4	1.50	38.1	200	13.8	10	8	.58	150	REEL	T	16FM5002	3221-0412
Red	1	25.4	1.50	38.1	200	13.8	10	8	.58	175	REEL	T	16FM5003	3221-0413
Red	1 1/4	31.8	1.80	45.7	200	13.8	10	10	.75	100	REEL	T	20FM5000	3221-0414
Red	1 1/4	31.8	1.80	45.7	200	13.8	10	10	.75	125	REEL	T	20FM5001	3221-0415
Red	1 1/4	31.8	1.80	45.7	200	13.8	10	10	.75	150	REEL	T	20FM5002	3221-0416
Red	1 1/4	31.8	1.80	45.7	200	13.8	10	10	.75	175	REEL	T	20FM5003	3221-0417
Red	1 3/8	34.9	1.89	48.0	200	13.8	10	10	.86	100	REEL	T	22FM5000	3221-0418
Red	1 3/8	34.9	1.89	48.0	200	13.8	10	10	.86	125	REEL	T	22FM5001	3221-0419
Red	1 3/8	34.9	1.89	48.0	200	13.8	10	10	.86	150	REEL	T	22FM5002	3221-0420
Red	1 3/8	34.9	1.89	48.0	200	13.8	10	10	.86	175	REEL	T	22FM5003	3221-0421
Red	1 1/2	38.1	2.08	52.8	200	13.8	10	12	.95	100	REEL	T	24FM5000	3221-0422
Red	1 1/2	38.1	2.08	52.8	200	13.8	10	12	.95	125	REEL	T	24FM5001	3221-0423
Red	1 1/2	38.1	2.08	52.8	200	13.8	10	12	1.14	150	REEL	T	24FM5002	3221-0424
Red	1 1/2	38.1	2.08	52.8	200	13.8	10	12	.95	175	REEL	T	24FM5003	3221-0425
Red	1 1/2	38.1	2.08	52.8	200	13.8	10	12	.95	200	REEL	T	24FM5004	3221-0426

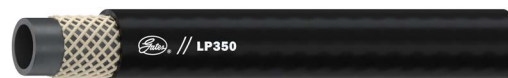
Assemblies

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length			Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ea)	Std. Pack	Pkg Code		
Red	1 1/4	31.8	1.75	44.5	200	13.8	10	10	79.00	100	ASSY	T	20FM5030	3221-0079
Red	1 1/4	31.8	1.75	44.5	200	13.8	10	10	121.00	150	ASSY	T	20FM5031	3221-0081
Red	1 1/4	31.8	1.75	44.5	200	13.8	10	10	135.25	175	ASSY	T	20FM5032	3221-0082
Red	1 3/8	34.9	1.87	47.5	200	13.8	10	10	137.00	150	ASSY	T	22FM5030	3221-0085

NOTE: Coupled with Brass Internal Expansion Fittings Male/Female Swivel.

**Fuel Master™ LP350 Hose**

Formerly - LP350, LP350X



- RECOMMENDED FOR:** Liquid or gaseous propane, butane or any combination of these two mixtures. Can be used for natural gas (not to exceed 50 psi) under certain conditions such as: open/outside areas and well ventilated factory buildings (if local building codes permit). CAUTION: Not recommended for residential, office buildings or as fuel line hose on compressed natural gas vehicles. Contact Denver Product Application (303) 744-5070 for inspection and assembly testing information. Warning: Do not convey LP Gas over +140°F (60°C).
- CAUTION:** Not recommended for residential, office buildings or as fuel line hose on compressed natural gas vehicles. Contact Denver Product Application (303) 744-5070 for inspection and assembly testing information.
- TEMPERATURE:** -40°F to +180°F (-40°C to +82°C) continuous service. Warning: Do not convey LP Gas over +140°F (60°C).
- CONSTRUCTION:** **Tube:** Nitrile - Type C; High Oil Resistance; Black hose sizes 1/4" to 1-1/4". Chloroprene (Neoprene) - Type A; High Oil Resistance; Black hose sizes 1-1/2" to 3". [See characteristics table.](#)
Reinforcement: Braided or spiral synthetic textile.
Cover: Chloroprene (Neoprene) - Type A; Perforated; Black. [See characteristics table.](#)
Design Factor: 5:1
- COUPLINGS:** Power Crimp™ Couplings (for 3/4", 1 1/2" and 2"); GLX™ Couplings [G44 Series] (for 1/4" to 1 1/4"); 84 Dixon Bauer (for 3" only; use Dixon LP Boss only). Do not use male swivel, reusable or O-ring type couplings. [Reference the Industrial Hose Coupling Selection Overview.](#)
- STANDARDS:** CAN/CGA-8.1-M86.
 NFPA 58, Section 8-3.5.
 Underwriters Laboratories Standard No. 21. (Applies to all sizes).

LP350 Hoses

Color	Hose I.D. (in)	Hose I.D. (mm)	Hose O.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	1/4	6.4	0.58	14.7	350	24.1	30	3	6.43	50	CTN	T	4FM7002	3220-1300
Black	1/4	6.4	0.58	14.7	350	24.1	30	3	.14	700	REEL	EE	4FM7001	3220-1200
Black	1/4	6.4	0.58	14.7	350	24.1	30	3	.14	3700	BULK	Y	4FM7000	3220-1201
Black	3/8	9.5	0.70	18.8	350	24.1	30	3	8.84	50	CTN	T	6FM7002	3220-1123
Black	3/8	9.5	0.74	18.8	350	24.1	30	3	.21	700	REEL	EE	6FM7001	3220-1202
Black	3/8	9.5	0.74	18.8	350	24.1	30	3	.21	2000	BULK	Y	6FM7000	3220-1203
Black	1/2	12.7	0.91	23.1	350	24.1	25	5	11.66	50	CTN	T	8FM7001	3220-1301
Black	1/2	12.7	0.91	23.1	350	24.1	25	5	.28	700	REEL	EE	8FM7000	3220-1204
Black	3/4	19.1	1.23	31.2	350	24.1	20	6	.44	100	CTN	T	12FM7000	3220-1207
Black	3/4	19.1	1.23	31.2	350	24.1	20	6	.44	150	CTN	T	12FM7001	3220-1209
Black	3/4	19.1	1.23	31.2	350	24.1	20	6	.50	350	REEL	KK	12FM7002	3220-1206
Black	1	25.4	1.51	38.4	350	24.1	15	8	.66	100	CTN	T	16FM7000	3220-1211
Black	1	25.4	1.51	38.4	350	24.1	15	8	.60	125	CTN	T	16FM7001	3220-1212
Black	1	25.4	1.51	38.4	350	24.1	15	8	.60	150	CTN	T	16FM7002	3220-1213
Black	1	25.4	1.51	38.4	350	24.1	15	15	.63	200	CTN	T	16FM7003	3220-1216
Black	1	25.4	1.51	38.4	350	24.1	15	8	.60	350	REEL	KK	16FM7004	3220-1210
Black	1 1/2	38.1	2.25	57.2	350	24.1	10	12	1.26	60	CTN	T	24FM7000	3320-0935
Black	2	50.8	2.86	72.6	350	24.1	10	14	1.84	50	CTN	T	32FM7000	3320-0939
Black	2	50.8	2.86	72.6	350	24.1	10	14	1.81	60	CTN	T	32FM7001	3320-0938
Black	3	76.2	3.88	98.6	350	24.1	10	24	2.58	60	CTN	T	48FM7000	3320-0934

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HOSE FINDER

Fuel Master™ LP350 Hose (Continued)

Formerly - LP350, LP350X

LP350 Power Crimp™ Ferrules

Description	Hose I.D.		Std. Pack	Pkg Qty	Gates Item No.
	(in)	(mm)			
12PCBHB1F	3/4	19.1	STD	1	7266-07355
12PCBHB1F XBULK	3/4	19.1	BULK	150	7266-0735
24PCBHB1F	1 1/2	38.1	STD	1	7266-07345
24PCBHB1F XBULK	1 1/2	38.1	BULK	20	7266-0734
32PCBHB1F	2	50.8	STD	1	7266-07335
32PCBHB1F XBULK	2	50.8	BULK	12	7266-0733

NOTE: These ferrules are to be used with LP350 hose only.



LPG Vapor 125 Hose

Formerly - LPG Vapor



RECOMMENDED FOR: Flexible connector for conveying low-pressure LPG (vapor only) to many types of farm and industrial heating applications; e.g., space heaters. Do not convey LP Gas over +140°F.

CAUTION: This hose should not be used for liquid LPG or in UL approved appliances such as barbecue grills.

TEMPERATURE: -30°F to +150°F (-34°C to +66°C) continuous service. Warning: Do not convey LP Gas over +140°F (60°C).

CONSTRUCTION: **Tube:** Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Synthetic textile.
Cover: Chloroprene (Neoprene) - Type A; Smooth, Perforated; Black. [See characteristics table.](#)
Design Factor: 5:1

STANDARDS: Underwriters Laboratories Standard No. 569. (Applies to hose assemblies only).

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	3/16	4.8	0.44	11.2	125	8.6	30	2	.08	700	REEL	AA	3FM8000	3220-0451
Black	1/4	6.4	0.53	13.5	125	8.6	30	3	.11	700	REEL	AA	4FM8000	3220-0456

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PROPER HOSE SELECTION

HOSE FINDER

Fuel Master™ Curb Pump Hose 150

Formerly - Blacksnake™



RECOMMENDED FOR: Dispensing of all types of petroleum diesel fuels and biodiesel blends from service station pumps. A heavy-duty hardwall hose which does not collapse in reel use or behind the nozzle in heavy-duty service.

TEMPERATURE: -40°F to +120°F (-40°C to +49°C) continuous service.

CONSTRUCTION: **Tube:** Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Braided, steel wire.
Cover: CPE - Type J. [See characteristics table.](#)
Design Factor: 5:1

COUPLINGS: 23 Reusable Gasoline Pump; 24 Permanent Gasoline Pump Hose; MegaCrimp™ Couplings [G25 Series]. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Underwriters Laboratories Standard No. UL330 (USA) and ULC-S612-99 (Canada).
Tube: ARPM Class A (High Oil Resistance)

Smooth Cover

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	5/8	15.9	1.00	25.4	150	10.3	30	6	.37	500	REEL	Z	10FM6000	3624-0001
Black	3/4	19.1	1.13	28.7	150	10.3	30	6	.42	500	REEL	Z	12FM6000	3624-0002
Blue	3/4	19.1	1.13	28.7	150	10.3	30	6	.42	500	REEL	Z	12FM6004	3624-1026

Wrapped Cover

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1	25.4	1.38	35.1	150	10.3	30	8	.57	500	REEL	Z	16FM6000	3624-0003
Blue	7/8	22.2	1.22	31.0	150	10.3	30	8	.42	500	REEL	Z	14FM6001	3624-1024
Blue	1	25.4	1.38	35.1	150	10.3	30	8	.53	500	REEL	Z	16FM6002	3624-1025



Fuel Master™ Curb Pump Hose Up to E85



RECOMMENDED FOR: Dispensing of all types of commercial gasolines or other petroleum-based products, including ethanol blends up to E85, from service station pumps (curb pump). A heavyduty hardwall hose which does not collapse on reels or behind the dispensing nozzle.

TEMPERATURE: -40°F to +120°F (-40°C to +49°C) continuous service.

CONSTRUCTION: **Tube:** Nitrile - Type C; Black. [See characteristics table.](#)
Reinforcement: Braided, steel wire.
Cover: CPE - Type J; Smooth; Black. [See characteristics table.](#)
Design Factor: 5:1

COUPLINGS: 23 Reusable Gasoline Pump; 24 Permanent Gasoline Pump Hose; MegaCrimp™ Couplings [G25 Series]. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Underwriters Laboratories Standard No. UL330A (USA) and ULC-S612-99 (Canada).
Tube: ARPM Class A (High Oil Resistance)

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	3/4	19.1	1.13	28.7	150	10.3	30	6	.42	500	REEL	Z	12FM6003	3624-1023

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PROPER HOSE SELECTION

HOSE FINDER

Fuel Master™ Diesel Curb Pump Hose 150



RECOMMENDED FOR: Dispensing of all types of petroleum diesel fuels and biodiesel blends from service station pumps. A heavy-duty hardwall hose which does not collapse in reel use or behind the nozzle in heavy-duty service.

TEMPERATURE: -40°F to +120°F (-40°C to +49°C) continuous service.

CONSTRUCTION: **Tube:** Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Braided, steel wire.
Cover: CPE - Type J; Smooth; Green. [See characteristics table.](#)
Design Factor: 5:1

COUPLINGS: 23 Reusable Gasoline Pump; 24 Permanent Gasoline Pump Hose; MegaCrimp™ Couplings [G25 Series]. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Underwriters Laboratories Standard No. UL330 (USA) and ULC-S612 (Canada).
Tube: ARPM Class A (High Oil Resistance)

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Green	3/4	19.1	1.13	28.7	150	10.3	30	6	.42	500	REEL	Z	12FM6001	3624-1007
Green	7/8	22.2	1.22	31.0	150	10.3	30	7	.42	500	REEL	Z	14FM6000	3624-1008
Green	1	25.4	1.38	35.1	150	10.3	30	8	.53	500	RFFI	Z	16FM6001	3624-1009

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PROPER HOSE SELECTION
HOSE FINDER

**Clean Master™ Pressure Wash 3000 Hose**

Formerly - PowerClean™ 1 or 2 Wire Braid



- RECOMMENDED FOR:** Hot and cold water high-pressure cleaning equipment used in commercial and industrial cleaning, food processing, sanitation, and car wash applications where heavy-duty service is required. Specially compounded cover to handle harsh environments. Meets 300°F (150°C) intermittent per EN1829-2. Increased operating temperatures will reduce hose assembly service life.
- CAUTION:** Not recommended for steam service. Use bend restrictors to extend service life.
- TEMPERATURE:** -40°F to +250°F (-40°C to +121°C). Meets 300°F (150°C) intermittent per EN1829-2. Increased operating temperatures will reduce hose assembly service life.
- CONSTRUCTION:** **Tube:** Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Braided, steel wire.
Cover: Modified Nitrile - Type C2; Abrasion, Ozone Resistant; Non-marking except for black. [See characteristics table.](#)
Design Factor: 4:1
- COUPLINGS:** MegaCrimp™ Couplings [G25 Series]. [Reference the Industrial Hose Coupling Selection Overview.](#)
- STANDARDS:** Exceeds EN1829-2.
Meets MSHA Flame-resistant.

Color	Hose I.D. (in)	Hose I.D. (mm)	Hose O.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	3/8	9.5	0.67	17.0	3000	210	30	3	.23	300	REEL	S	6CL1002	4657-2402
Black	3/8	9.5	0.67	17.0	3000	210	30	3	.23	1000	REEL	S	6CL1001	4657-2401
Black	1/2	12.7	0.79	20.0	3000	210	30	4	.25	300	REEL	L	8CL1002	4657-9375
Black	1/2	12.7	0.79	20.0	3000	210	30	4	.24	1000	REEL	S	8CL1001	4657-9376
Black	1/2	12.7	0.79	20.0	3000	210	30	4	.24	2800	BALE	S	8CL1000	4657-9530
Blue	3/8	9.5	0.67	17.0	3000	210	30	3	.23	300	REEL	S	6CL1005	4657-2404
Blue	3/8	9.5	0.67	17.0	3000	210	30	3	.23	1000	REEL	S	6CL1004	4657-2403
Blue	1/2	12.7	0.79	20.0	3000	210	30	4	.25	300	REEL	S	8CL1005	4657-9456
Blue	1/2	12.7	0.79	20.0	3000	210	30	4	.25	1000	REEL	S	8CL1004	4657-9455
Blue	1/2	12.7	0.79	20.0	3000	210	30	4	.25	2800	BALE	S	8CL1003	4657-9531
Gray	3/8	9.5	0.67	17.0	3000	210	30	3	.23	300	REEL	S	6CL1006	4657-2416
Gray	1/2	12.7	0.79	20.0	3000	210	30	4	.25	300	REEL	S	8CL1007	4657-9458
Gray	1/2	12.7	0.79	20.0	3000	210	30	4	.25	2800	BALE	S	8CL1006	4657-9532
Yellow	3/8	9.5	0.67	17.0	3000	210	30	3	.23	300	REEL	S	6CL1009	4657-2417
Yellow	3/8	9.5	0.67	17.0	3000	210	30	3	.24	1000	REEL	S	6CL1008	4657-2652
Yellow	1/2	12.7	0.79	20.0	3000	210	30	4	.25	100	REEL	T	8CL1009	4657-9978
Yellow	1/2	12.7	0.79	20.0	3000	210	30	4	.25	300	REEL	S	8CL10011	4657-9460
Yellow	1/2	12.7	0.79	20.0	3000	210	30	4	.25	1000	REEL	S	8CL10010	4657-9459
Yellow	1/2	12.7	0.79	20.0	3000	210	30	4	.25	2800	BALE	S	8CL1008	4657-9533

Pressure Wash 3000 - Cut Lengths

Color	Hose I.D. (in)	Hose I.D. (mm)	Hose O.D. (in)	Hose O.D. (mm)	Max. W.P. (psi)	Max. W.P. (Bar)	Vac. (In. Hg)	MBR (in)	Wt. Per ea (Lbs.)	Length (ea)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	3/8	9.5	0.67	17.0	3000	210	30	3	11.83	50	CTN	T	6CL1000	4657-2469
Yellow	3/8	9.5	0.67	17.0	3000	210	30	3	12.22	50	CTN	T	6CL1007	4657-0064

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HOSE FINDER

Clean Master™ Pressure Wash 4000 Hose

Formerly - PowerClean™ 1 or 2 Wire Braid



RECOMMENDED FOR: Hot and cold water high-pressure cleaning equipment used in commercial and industrial cleaning, food processing, sanitation, and car wash applications where heavy-duty service is required. Specially compounded cover to handle harsh environments. Meets 300°F (150°C) intermittent per EN1829-2. Increased operating temperatures will reduce hose assembly service life.

CAUTION: Not recommended for steam service. Use bend restrictors to extend service life.

TEMPERATURE: -40°F to +250°F (-40°C to +121°C). Meets 300°F (150°C) intermittent per EN1829-2. Increased operating temperatures will reduce hose assembly service life.

CONSTRUCTION: **Tube:** Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Braided, steel wire.
Cover: Modified Nitrile - Type C2; Abrasion, Ozone Resistant; Non-marking except for black. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: MegaCrimp™ Couplings [G25 Series]. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Exceeds EN1829-2.
Meets MSHA Flame-resistant.

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1/4	6.4	0.53	13.5	4000	280	30	2	.15	300	REEL	S	4CL1101	4657-9377
Black	1/4	6.4	0.53	13.5	4000	280	30	2	.13	1000	REEL	S	4CL1100	4657-9378
Black	1/4	6.4	0.53	13.5	4000	280	30	2	.13	5600	BALE	S	4CL1109	4657-9534
Black	3/8	9.5	0.67	17.0	4000	280	30	3	.18	300	REEL	S	6CL1103	4657-9379
Black	3/8	9.5	0.67	17.0	4000	280	30	3	.18	1000	REEL	S	6CL1102	4657-9380
Black	3/8	9.5	0.67	17.0	4000	280	30	3	.19	3800	BALE	S	6CL11014	4657-9535
Black	1/2	12.7	0.80	20.3	4000	280	30	4	.28	1000	REEL	S	8CL1100	4657-9351
Black	1/2	12.7	0.80	20.3	4000	280	30	4	.28	2250	BALE	S	8CL1104	4657-9536
Blue	1/4	6.4	0.53	13.5	4000	280	30	2	.15	300	REEL	S	4CL1104	4657-9474
Blue	1/4	6.4	0.53	13.5	4000	280	30	2	.20	1000	REEL	S	4CL1103	4657-9473
Blue	3/8	9.5	0.67	17.0	4000	280	30	3	.18	300	REEL	S	6CL1107	4657-9468
Blue	3/8	9.5	0.67	17.0	4000	280	30	3	.22	1000	REEL	S	6CL1106	4657-9467
Blue	3/8	9.5	0.67	17.0	4000	280	30	3	.20	3800	BALE	S	6CL11015	4657-9537
Blue	1/2	12.7	0.80	20.3	4000	280	30	4	.28	2250	BALE	S	8CL1105	4657-9538
Gray	1/4	6.4	0.53	13.5	4000	280	30	2	.15	300	REEL	S	4CL1106	4657-9476
Gray	1/4	6.4	0.53	13.5	4000	280	30	2	.13	1000	REEL	S	4CL1105	4657-9475
Gray	1/4	6.4	0.53	13.5	4000	280	30	2	.13	5600	BALE	S	4CL11010	4657-9539
Gray	3/8	9.5	0.67	17.0	4000	280	30	3	.18	300	REEL	S	6CL11011	4657-9472
Gray	3/8	9.5	0.67	17.0	4000	280	30	3	.66	1000	REEL	S	6CL11010	4657-9471
Gray	3/8	9.5	0.67	17.0	4000	280	30	3	.20	3800	BALE	S	6CL11016	4657-9540
Gray	1/2	12.7	0.80	20.3	4000	280	30	4	.28	300	REEL	S	8CL1101	4657-9464
Gray	1/2	12.7	0.80	20.3	4000	280	30	4	.28	2250	BALE	S	8CL1106	4657-9541
Yellow	1/4	6.4	0.53	13.5	4000	280	30	2	.15	300	REEL	S	4CL1108	4657-9478
Yellow	1/4	6.4	0.53	13.5	4000	280	30	2	.13	1000	REEL	S	4CL1107	4657-9477
Yellow	3/8	9.5	0.67	17.0	4000	280	30	3	.18	300	REEL	S	6CL11013	4657-9395
Yellow	3/8	9.5	0.67	17.0	4000	280	30	3	.20	1000	REEL	S	6CL11012	4657-9396
Yellow	1/2	12.7	0.80	20.3	4000	280	30	4	.28	300	REEL	S	8CL1103	4657-9466
Yellow	1/2	12.7	0.80	20.3	4000	280	30	4	.28	1000	REEL	S	8CL1102	4657-9465

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**Clean Master™ Pressure Wash 4000 Hose (Continued)**

Formerly - PowerClean™ 1 or 2 Wire Braid

Pressure Wash 4000 - Cut Lengths

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ea)				
Black	3/8	9.5	0.67	17.0	4000	280	30	3	10.24	50	CTN	T	6CL1100	4657-9424
Black	3/8	9.5	0.67	17.0	4000	280	30	3	31.47	100	CTN	T	6CL1101	4657-9423
Blue	1/4	6.4	0.53	13.5	4000	280	30	2	13.59	100	CTN	T	4CL1102	4657-9586
Blue	3/8	9.5	0.67	17.0	4000	280	30	3	10.24	50	CTN	T	6CL1104	4657-9469
Blue	3/8	9.5	0.67	17.0	4000	280	30	3	31.47	100	CTN	T	6CL1105	4657-9470
Gray	3/8	9.5	0.67	17.0	4000	280	30	3	9.80	50	CTN	T	6CL1108	4656-0224
Gray	3/8	9.5	0.67	17.0	4000	280	30	3	19.60	100	CTN	T	6CL1109	4656-0225

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HOSE FINDER

Clean Master™ Plus Pressure Wash 6000 Hose

Formerly - PowerClean™ 1 or 2 Wire Braid



RECOMMENDED FOR: Professional power wash that withstands the incredible working pressure of 6000 psi. It offers the same exceptional qualities of standard versions with the advantage of being stronger and up to 32% lighter, making it easier to handle, especially when dragging long lengths of hose on rough surfaces. Its unique flexibility gives you more mobility in tight spaces without compromising its power. CAUTION: Not recommended for steam service. Use bend restrictors to extend service life. Meets 300°F (150°C) intermittent per EN1829-2. Increased operating temperatures will reduce hose assembly service life.

TEMPERATURE: -40°F to +300°F (-40°C to +150°C). Meets 300°F (150°C) intermittent per EN1829-2. Increased operating temperatures will reduce hose assembly service life.

CONSTRUCTION: **Tube:** Nitrile - Type C; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Braided, steel wire.
Cover: Modified Nitrile - Type C2; Abrasion, Ozone Resistant; Non-marking except for black. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: MegaCrimp™ Couplings [G25 Series]. [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Exceeds EN1829-2.
 Meets MSHA Flame-resistant.

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	1/4	6.4	0.52	13.1	6000	420	30	2	.17	300	REEL	T	4CL4000	4656-0695
Black	1/4	6.4	0.52	13.1	6000	420	30	2	.17	1000	REEL	S	4CL4002	4656-0696
Black	1/4	6.4	0.52	13.1	6000	420	30	2	.17	2000	BALE	S	4CL4001	4656-0697
Black	3/8	9.5	0.68	17.3	6000	420	30	5	.26	300	REEL	S	6CL4004	4656-0706
Black	3/8	9.5	0.68	17.3	6000	420	30	5	.26	1000	REEL	S	6CL4003	4656-0707
Black	3/8	9.5	0.68	17.3	6000	420	30	5	.26	1200	BALE	S	6CL4002	4656-0708
Black	1/2	12.7	0.81	20.6	6000	420	30	5	.31	300	REEL	S	8CL4002	4656-0709
Black	1/2	12.7	0.81	20.6	6000	420	30	5	.31	1000	REEL	S	8CL4001	4656-0710
Black	1/2	12.7	0.81	20.6	6000	420	30	5	.31	1125	BALE	S	8CL4000	4656-0711
Blue	3/8	9.5	0.74	16.3	6000	420	30	5	.26	300	REEL	S	6CL4009	4656-0799
Blue	3/8	9.5	0.74	16.3	6000	420	30	5	.26	1000	REEL	S	6CL4008	4656-0800
Blue	3/8	9.5	0.74	16.3	6000	420	30	5	.26	2400	BALE	S	6CL4007	4656-0801
Blue	1/2	12.7	0.86	21.8	6000	420	30	5	.31	300	REEL	S	8CL4005	4656-0802
Blue	1/2	12.7	0.86	21.8	6000	420	30	5	.31	1000	REEL	S	8CL4004	4656-0803
Blue	1/2	12.7	0.86	21.8	6000	420	30	5	.31	2250	BALE	S	8CL4003	4656-0804
Gray	3/8	9.5	0.74	16.3	6000	420	30	5	.26	300	REEL	S	6CL40014	4656-0807
Gray	3/8	9.5	0.74	16.3	6000	420	30	5	.26	1000	REEL	S	6CL40013	4656-0808
Gray	3/8	9.5	0.74	16.3	6000	420	30	5	.26	2400	BALE	S	6CL40012	4656-0809
Gray	1/2	12.7	0.86	21.8	6000	420	30	5	.32	3.00	REEL	S	8CL4008	4656-0810
Gray	1/2	12.7	0.86	21.8	6000	420	30	5	.32	1000	REEL	S	8CL4007	4656-0811
Gray	1/2	12.7	0.86	21.8	6000	420	30	5	.32	2250	BALE	S	8CL4006	4656-0812
Yellow	3/8	9.5	0.74	18.8	6000	420	30	5	.26	300	REEL	S	6CL40016	4656-0813
Yellow	3/8	9.5	0.74	18.8	6000	420	30	5	.26	1000	REEL	S	6CL40015	4656-0814
Yellow	1/2	12.7	0.86	21.8	6000	420	30	5	.32	300	REEL	S	8CL40010	4656-0815
Yellow	1/2	12.7	0.86	21.8	6000	420	30	5	.32	1000	REEL	S	8CL4009	4656-0816

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**Clean Master™ Plus Pressure Wash 6000 Hose (Continued)**

Formerly - PowerClean™ 1 or 2 Wire Braid

Pressure Wash 6000 - Cut Lengths

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(in. Hg)	(in)	(Lbs.)	(ft)				
Black	3/8	9.5	0.68	17.3	6000	420	30	5	12.78	50	CTN	T	6CL4001	4656-0704
Black	3/8	9.5	0.68	17.3	6000	420	30	5	25.56	100	CTN	T	6CL4000	4656-0705
Blue	3/8	9.5	0.74	16.3	6000	420	30	5	6.02	50	CTN	T	6CL4006	4656-0797
Blue	3/8	9.5	0.74	16.3	6000	420	30	5	25.60	100	CTN	T	6CL4005	4656-0798
Gray	3/8	9.5	0.74	18.8	6000	420	30	5	12.87	50	CTN	T	6CL40011	4656-0805
Gray	3/8	9.5	0.74	18.8	6000	420	30	5	12.04	100	CTN	T	6CL40010	4656-0806

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PROPER HOSE SELECTION

HOSE FINDER

Clean Master™ Pressure Wash Assemblies

Formerly - PowerClean™ 1 or 2 Wire Braid



RECOMMENDED FOR: Hot and cold water high-pressure cleaning equipment used in commercial and industrial cleaning, food processing, sanitation, and car wash applications where heavy-duty service is required. Specially compounded cover to handle harsh environments. Meets 300°F (150°C) intermittent per EN1829-2. Increased operating temperatures will reduce hose assembly service life.

CAUTION: Not recommended for steam service.

TEMPERATURE: -40°F to +250°F (-40°C to +121°C) for Pressure Wash 4000. -40°F to +300°F (-40°C to +150°C) for Pressure Wash 6000. Meets 300°F (150°C) intermittent per EN1829-2. Increased operating temperatures will reduce hose assembly service life.

CONSTRUCTION: **Tube:** Nitrile - Type C; Black. [See characteristics table.](#)
Reinforcement: Braided, steel wire.
Cover: Modified Nitrile - Type C2; Abrasion, Ozone Resistant; Smooth; Non-marking except for black. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: Gates permanent couplings (3/8" Male NPT x 3/8" Male NPT swivel with bend restrictors applied on each end). [Reference the Industrial Hose Coupling Selection Overview.](#)

STANDARDS: Exceeds EN1829-2.
Meets MSHA Flame-resistant.

Pressure Wash 4000

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ea)				
Black	3/8	9.5	0.68	17.3	4000	280	30	3	10.45	50	ASSY	T	6CL1030	3604-0922
Black	3/8	9.5	0.68	17.3	4000	280	30	3	20.20	100	ASSY	T	6CL1031	3604-0923
Blue	3/8	9.5	0.68	17.3	4000	280	30	3	10.45	50	ASSY	T	6CL1032	3604-0926
Blue	3/8	9.5	0.68	17.3	4000	280	30	3	20.20	100	ASSY	T	6CL1033	3604-0920
Gray	3/8	9.5	0.68	17.3	4000	280	30	3	10.45	50	ASSY	T	6CL1034	3604-0924
Gray	3/8	9.5	0.68	17.3	4000	280	30	3	20.20	100	ASSY	T	6CL1035	3604-0925
Yellow	3/8	9.5	0.68	17.3	4000	280	30	3	10.45	50	ASSY	T	6CL1036	3604-0927
Yellow	3/8	9.5	0.68	17.3	4000	280	30	3	20.20	100	ASSY	T	6CL1037	3604-0928

Pressure Wash 6000

	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ea)				
Black	3/8	9.5	0.68	17.3	6000	420	30	3	10.45	50	ASSY	T	6CL1130	3604-0929
Black	3/8	9.5	0.68	17.3	6000	420	30	3	20.20	100	ASSY	T	6CL1131	3604-0930
Blue	3/8	9.5	0.68	17.3	6000	420	30	5	10.45	50	ASSY	T	6CL1132	3604-0932
Blue	3/8	9.5	0.68	17.3	6000	420	30	5	20.20	100	ASSY	T	6CL1133	3604-0933
Gray	3/8	9.5	0.68	17.3	6000	420	30	5	10.45	50	ASSY	T	6CL1134	3604-0931
Gray	3/8	9.5	0.68	17.3	6000	420	30	5	20.20	100	ASSY	T	6CL1135	3604-0921
Yellow	3/8	9.5	0.68	17.3	6000	420	30	5	10.45	50	ASSY	T	6CL1136	3604-0934
Yellow	3/8	9.5	0.68	17.3	6000	420	30	5	20.20	100	ASSY	T	6CL1137	3604-0935

Pressure Wash Quick Disconnect Coupler

	Hose I.D.		Thread	Wt. Per ea	Pkg Qty	Gates Item No.
Description	(in)			(Lbs.)		
3/8 FEMALE QD COUPLER BRASS	3/8		1/2-14	.21	1	7253-0013
3/8 FEMALE QD PLUG STEEL	3/8		3/8-18	.10	1	7253-0012

**Clean Master™ Washdown 1000 Hose**

Formerly - Cyclone™



RECOMMENDED FOR: High-pressure washer operations using mild detergents; ideal for meat, poultry and other food processing plants. Cover is resistant to weather, oil, animal fat, abrasion and heat encountered in food plant cleaning applications.

CAUTION: Air service working pressure is 300 psi for all sizes.

TEMPERATURE: -40°F to +212°F (-40°C to +100°C) continuous washdown service.

CONSTRUCTION: **Tube:** Modified Nitrile - Type C2; High Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Braided, synthetic textile.
Cover: Modified Nitrile - Type C2; Abrasion, Animal Fat, Heat, Oil, Weather Resistant; All colors non-marking. [See characteristics table.](#)

Design Factor: 4:1

COUPLINGS: GLX™ Couplings [G44 Series]. [Reference the Industrial Hose Coupling Selection Overview.](#)

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Blue	3/8	9.5	0.73	18.5	1000	68.9	30	4	.19	500	REEL	UU	6CL5100	3217-0654
Blue	1/2	12.7	0.94	23.9	1000	68.9	30	5	.31	500	REEL	UU	8CL5100	3217-0659
Blue	3/4	19.1	1.20	30.5	1000	68.9	30	6	.38	500	REEL	UU	12CL5100	3217-5017
Red	3/4	19.1	1.20	30.5	1000	68.9	30	6	.45	100	BULK	T	12CL5101	3217-5016
Red	3/4	19.1	1.20	30.5	1000	68.9	30	6	.44	500	REEL	UU	12CL5102	3217-0658
Yellow	3/8	9.5	0.73	18.5	1000	68.9	30	4	.18	100	BULK	500	6CL5101	3217-0584
Yellow	3/8	9.5	0.73	18.5	1000	68.9	30	4	.18	750	REEL	BB	6CL5102	3217-0585
Yellow	1/2	12.7	0.94	23.9	1000	68.9	30	5	.29	100	BULK	500	8CL5101	3217-0587
Yellow	1/2	12.7	0.94	23.9	1000	68.9	30	5	.29	750	REEL	BB	8CL5102	3217-0586
Yellow	3/4	19.1	1.20	30.5	1000	68.9	30	6	.41	750	REEL	BB	12CL5103	3217-0588

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PROPER HOSE SELECTION

HOSE FINDER

Clean Master™ Washdown Hose 150-200

Formerly - Creamery/Paper Mill Washdown



RECOMMENDED FOR: Cold and hot water up to +212°F (+100°C) where steam is injected into the water. Used for paper mill, food handling or processing plant washdown service requiring hose with a non-marking cover.

CAUTION: Not recommended for use with steam.

TEMPERATURE: -20°F to +180°F (-29°C to +82°C) continuous service, for nozzle only. -40°F to +212°F (-40°C to +100°C) continuous service (without nozzle).

CONSTRUCTION: **Tube:** SBR - Type D; Limited Oil Resistance; Black. For nozzle only.
EPDM - Type P; Limited Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Nozzled: Braided, synthetic textile; Without Nozzle: Synthetic textile.
Cover: Natural Rubber - Type D; Perforated; Gray with nozzle.
EPDM - Type P; Perforated; White without nozzle. [See characteristics table.](#)
Design Factor: 4:1

COUPLINGS: 1 Long Shank; 14 Interlocking, Ground Joint; 15 Interlocking, Washer Joint; GLX™ Couplings [G44 Series] (Without nozzle only); Stainless Steel Braid Couplings [G17 Series] (Without nozzle only). [Reference the Industrial Hose Coupling Selection Overview.](#)

With Nozzle

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Gray	3/4	19.1	1.25	31.8	150	10.3	25	6	27.50	50	PLT	T	12CL5000	3213-0543
Gray	1	25.4	1.50	38.1	150	10.3	15	8	33.50	50	PLT	T	16CL5000	3213-0544
Gray	1 1/4	31.8	1.75	44.5	150	10.3	15	10	39.50	50	PLT	T	20CL5100	3213-0545

Without Nozzle

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
White	1/2	12.7	0.91	23.1	200	13.8	25	5	.28	700	REEL	FF	8CL5001	3213-0401
White	3/4	19.1	1.25	31.8	200	13.8	15	6	.49	50	CTN	T	12CL5001	3213-0413
White	3/4	19.1	1.25	31.8	200	13.8	15	6	.49	100	CTN	T	12CL5002	3213-0512
White	3/4	19.1	1.25	31.8	200	13.8	15	6	.49	350	REEL	KK	12CL5004	3213-0501
White	1	25.4	1.52	38.6	200	13.8	15	8	.65	50	CTN	T	16CL5001	3213-0416
White	1	25.4	1.52	38.6	200	13.8	15	8	.65	350	REEL	KK	16CL5002	3213-0415

Exact Length 500-Foot One-Piece Reels

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
White	1/2	12.7	0.91	23.1	200	13.8	25	5	.28	500	REEL	T	8CL5000	3213-0451
White	3/4	19.1	1.25	31.8	200	13.8	15	6	.51	500	REEL	T	12CL5003	3213-0551

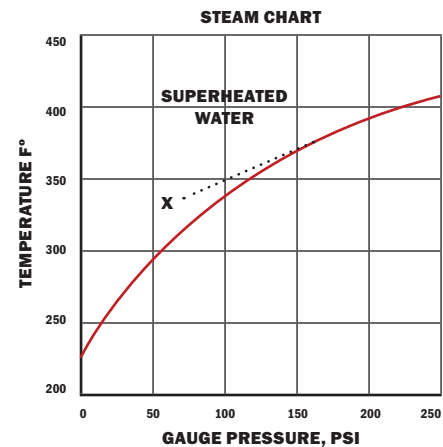


STEAM HOSE

STEAM AND ITS EFFECTS ON HOSE

Water can exist in three different basic states—solid, liquid or gas—and there are three different conditions of the gas (steam). The pressure and temperature dictate the particular condition of the water. These conditions are wet saturated steam or “wet steam,” dry saturated steam, and superheated steam or “dry steam.”

By way of explanation, refer to the steam chart. The heavy red line is the boiling point of water at various gauge pressures. Any point on this line represents saturated steam. Saturated steam may be completely free of unvaporized water particles, or it may carry such particles. In other words, saturated steam may be “dry” or “wet.” Any point below the line represents hot water—any point above the line represents superheated steam.



The dotted line shows the process of saturated steam being transformed into superheated steam. If a steam line is at a pressure of 150 psi and a temperature of 366°F, it contains saturated steam. If the pressure is substantially reduced by the expansion of the steam (such as the sudden opening of a valve or the steam passing into a larger pipe or hose), the condition of the steam follows the dotted line to some point X in the superheated steam area. This condition may not last very long, but the superheated steam tends to deteriorate the tube stock in ordinary steam hose intended for use with saturated steam. This usually results in hose failure.

MAINTENANCE

Steam hose failure can cause **SERIOUS** injury. Therefore, it is extremely important to properly select and maintain steam hose.



RULES TO REMEMBER

RULE	REASON
Steam hose should be used to transfer ONLY steam! Never use it to transport other materials.	The hose is specially designed to handle steam. Materials other than steam could damage the tube.
Couple steam hose to a length of pipe to separate the hose from the steam source.	Constant high heat can shorten the life of a steam hose.
Always have an accurate pressure gauge and positive shutoff valve installed between the steam source and the hose.	A surge in the hose could cause a failure and injury.
Operators should always wear protective clothing, which includes face or eye protection, heavy-duty clothing, gloves and boots.	This provides protection from flying particles and liquids.
Operators should NEVER open a steam valve when the hose is lying free.	The sudden surge in pressure can cause the hose to whip, which could cause injury or damage.
ALWAYS drain steam hose when not in use.	Water remaining in the hose may be absorbed by the tube. When the hose is then reheated and still under low pressure, the absorbed water may change to steam and “popcorn” or expand and explode the tube. Popcorn can weaken and destroy a hose.

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HOSE FINDER

HOW TO SELECT THE CORRECT STEAM HOSE ASSEMBLY

Determine required hose size

The hose size required is usually fixed by size of fittings or pipe to which the hose is to be connected. It is important that you do not select a hose with an inside diameter larger than the diameter of the preceding pipe.

Find actual rated working pressure and temperature

Take pressure and temperature readings just ahead of the hose connection.

Determine condition of steam (saturated or superheated)

Locate the actual rated working pressure and temperature on the steam chart. Any point on the heavy line is saturated steam.

Select the correct hose

From the table to the right, select the hose that fulfills the requirements of both the condition of the steam and the rated working pressure.

Determine length required

Length required is almost always dictated by the application.

Select couplings required

Gates recommends interlocking* and permanently crimped types of couplings for steam hose applications. These are identified as:

- Interlocking, ground joint
- Interlocking, washer joint
- Permanently crimped

*Remember to retighten bolts on a regular basis.

Maintenance and inspection

For proper maintenance and inspection of interlocking and permanently crimped steam hose assemblies, refer to ARPM IP-11-1.Z

STEAM HOSE TABLE

HOSE TYPE	RECOMMENDED SERVICE		
	RATED WORKING PRESSURE (PSI)	WORKING TEMPERATURE (°F)	TYPE OF STEAM
Plant Master™ Steam Plus	250	450	Saturated or superheated
Plant Master Steam	250	450	Saturated or superheated

PROPERTIES OF SATURATED STEAM

(Abridged from Handbook of Chemistry and Physics — 39th Edition)
Gauge Pressure (psi) -vs- Temperature of Saturated Steam (°F)*

(PSI)	(°F)	(PSI)	(°F)	(PSI)	(°F)	(PSI)	(°F)
10	239	85	328	150	366	215	394
25	267	90	331	155	368	220	395
30	274	95	335	160	371	225	397
35	281	100	338	165	373	230	399
40	287	105	341	170	375	235	401
45	292	110	344	175	377	240	403
50	298	115	347	180	380	245	404
55	303	120	350	185	382	250	406
60	307	125	353	190	384	255	408
65	312	130	356	195	386	260	409
70	316	135	358	200	388	265	411
75	320	140	361	205	390	270	413
80	324	145	363	210	392	275	414

*Based on an atmosphere pressure of 14.7psi.

EXPERT ADVICE



CAUTION

- Steam can be dangerous material. Play it safe — stay within the limits of published recommendations!
- Do not alternate between steam and water.



Dangers of Steam



STEAM COUPLINGS

1. Use Gates recommended permanently crimped or two- and four-bolt interlocking clamp-type couplings.
2. The clamps must interlock over the collar of the coupling shank and the clamp halves must interlock with each other.
3. Make sure the hose clamps are tight and crimped couplings are secure before each use. Always check them again after each shutdown, or before each start up.
4. A steam hose which is used for long periods should have the clamps checked once every 24 hours and tightened as required.
5. Always tighten bolts evenly. This prevents distortion, bending and misalignment, commonly known as “cocking.”
6. When clamp halves begin to touch after repeated tightening, DO NOT USE THE HOSE.
 - If the hose has no other problems, it can be recoupled or fitted with the next smaller size clamp and put back into service.
7. ALL steam hose assemblies should be pressure tested before being put into service.

ARPM STANDARDS FOR STEAM HOSE TESTING

The Association for Rubber Products Manufacturers (ARPM) recommends pressure testing steam hose once every 90 days the first year it is in service and once a month thereafter. See ARPM publication #IP-11-1, Guide for Use, Maintenance, Testing and Inspection of Steam Hose.

1. These tests are for steam hose with a maximum rated working pressure of 250 psi, temperature ranges up to 450°F, and inside diameters of two inches or less.
 - If the hose does not meet these criteria, please contact Gates Hose Product Application at 303-744-5070 or fppasupport@gates.com
2. Lay the steam hose out to its full length and inspect the outer cover for cuts, abrasions, bulges, soft spots, coupling slippage or any other signs of wear.
 - If the hose has any of the above problems, discontinue use.
 - If the hose passes the visual inspection, continue to Step 3.
3. Connect the hose to a suitable pump.
4. Restrain the hose by using a cable or chain.
5. Inspect permanent couplings for looseness or slippage, cracks, severe corrosion, flattened ferrules, or other signs of damage. Tighten the clamp type coupling bolts evenly and securely. Fit the open end of the hose with a quick-opening valve.
6. Raise the free end of the hose, fill the hose with water and bleed the air out through the quick-opening valve. When all the air is out, close the valve.
7. Raise the pressure to twice the maximum rated working pressure of the hose.
 - Hold this pressure for five minutes.
 - While under pressure, examine the hose for leaks, swollen areas or bulges, especially near the couplings.
 - A leak or bulge in the hose assembly must be removed from service and replaced. Never use a steam hose that leaks.
 - If leaks are found between the hose tube and the fitting, release the pressure, retighten the clamp and reapply pressure.
 - If the leak continues, the hose must be replaced.
 - If a leak occurs at a permanently crimped coupling, the hose must be replaced.
8. Record all test data on an inspection card and file it with maintenance records.



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HOSE FINDER

Plant Master™ Steam Plus 250 Hose

Formerly - 232MB Steam Queen™



RECOMMENDED FOR: All types of steam – saturated and superheated – up to 250 PSI and +450°F (+232°C). Special compound cover for use in refineries and processing plants.

CAUTION: Do not alternate use between steam and water. When electrical continuity is required, ground the wire braid in the hose to couplings with aluminum, copper or stainless steel staples.

TEMPERATURE: -40°F to +450°F (-40°C to +232°C) continuous service.

CONSTRUCTION:
Tube: EPDM - Type P2; Limited Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Braided, steel wire.
Cover: Specially compounded elastomer - Type B1; Heat, Oil Resistant; Wrapped, Perforated; Red with black stripe. [See characteristics table.](#)
Design Factor: 10:1

COUPLINGS: 14 Interlocking, Ground Joint; 15 Interlocking, Washer Joint; 76 Permanent Crimped Steam. [Reference the Industrial Hose Coupling Selection Overview.](#)

Wrapped Cover

	Hose I.D.	⊖	Hose O.D.	⊖	Max. W.P.	⊖	Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Red	3/8	9.5	0.80	20.3	250	17.2	30	4	.32	50	CTN	T	6PM5400	3602-1051
Red	3/8	9.5	0.80	20.3	250	17.2	30	4	.30	250	REEL	LL	6PM5401	3602-1061
Red	1/2	12.7	1.02	25.9	250	17.2	25	7	.45	50	CTN	T	8PM5400	3602-1052
Red	1/2	12.7	1.02	25.9	250	17.2	25	7	.45	250	REEL	LL	8PM5401	3602-1062
Red	3/4	19.1	1.27	32.3	250	17.2	20	9	.60	50	CTN	T	12PM5400	3602-1055
Red	3/4	19.1	1.27	32.3	250	17.2	20	9	.64	100	CTN	T	12PM5401	3602-1162
Red	3/4	19.1	1.27	32.3	250	17.2	20	9	.60	250	REEL	LL	12PM5402	3602-1065
Red	1	25.4	1.52	38.6	250	17.2	20	11	.73	50	CTN	T	16PM5400	3602-1057
Red	1 1/4	31.8	1.81	46.0	250	17.2	20	16	1.04	50	CTN	T	20PM5400	3602-1058
Red	1 1/2	38.1	2.18	55.4	250	17.2	10	20	1.24	50	CTN	T	24PM5400	3602-1059
Red	2	50.8	2.66	67.6	250	17.2	10	25	.16	25	CTN	T	32PM5401	3602-2127
Red	2	50.8	2.66	67.6	250	17.2	10	25	.16	30	CTN	T	32PM5402	3602-2128
Red	2	50.8	2.66	67.6	250	17.2	10	25	.16	35	CTN	T	32PM5403	3602-2129
Red	2	50.8	2.66	67.6	250	17.2	10	25	.16	40	CTN	T	32PM5404	3602-2130
Red	2	50.8	2.66	67.6	250	17.2	10	25	.16	45	CTN	T	32PM5405	3602-2131
Red	2	50.8	2.66	67.6	250	17.2	10	25	1.80	50	CTN	T	32PM5400	3602-1060

Assemblies - Wrapped Cover

	Hose I.D.	⊖	Hose O.D.	⊖	Max. W.P.	⊖	Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ea)				
Red	3/4	19.1	1.27	32.3	250	17.2	20	9	33.40	50 ft. F/F	ASSY	T	12PM5431	3602-0002

**Plant Master™ Steam 250 Hose**

Formerly - 205MB Steam King™

**RECOMMENDED FOR:** All types of steam – saturated and superheated – up to 250 PSI and +450°F (+232°C).**CAUTION:** Do not alternate use between steam and water. When electrical continuity is required, ground the wire braid in the hose to couplings with aluminum, copper or stainless steel staples.**TEMPERATURE:** -40°F to +450°F (-40°C to +232°C) continuous service.**CONSTRUCTION:** **Tube:** EPDM - Type P2; Limited Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Braided, steel wire.
Cover: EPDM - Type P2; Wrapped, Perforated; Black with red stripe. [See characteristics table.](#)
Design Factor: 10:1**COUPLINGS:** 14 Interlocking, Ground Joint; 15 Interlocking, Washer Joint; 76 Permanent Crimped Steam. [Reference the Industrial Hose Coupling Selection Overview.](#)**Wrapped Cover**

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ft)				
Black	3/8	9.5	0.78	19.8	250	17.2	30	4	.26	50	CTN	250	6PM5000	3605-0650
Black	3/8	9.5	0.78	19.8	250	17.2	30	4	.26	250	REEL	LL	6PM5001	3605-0652
Black	1/2	12.7	1.02	25.9	250	17.2	20	7	.44	50	CTN	T	8PM5000	3605-5020
Black	1/2	12.7	1.02	25.9	250	17.2	20	7	.44	500	REEL	T	8PM5001	3605-5008
Black	3/4	19.1	1.27	32.3	250	17.2	20	9	.57	50	BULK	100	12PM5001	3605-0901
Black	3/4	19.1	1.27	32.3	250	17.2	20	9	.53	50	BULK	T	12PM5000	3605-5014
Black	3/4	19.1	1.27	32.3	250	17.2	20	9	.53	50	REEL	UU	12PM5002	3605-5019
Black	1	25.4	1.52	38.6	250	17.2	20	11	.70	50	BULK	200	16PM5001	3605-0665
Black	1	25.4	1.52	38.6	250	17.2	20	11	.70	50	BULK	600	16PM5000	3605-0669
Black	1	25.4	1.52	38.6	250	17.2	20	11	.71	100	CTN	T	16PM5002	3605-5013
Black	1	25.4	1.52	38.6	250	17.2	20	11	.71	500	REEL	T	16PM5003	3605-5009
Black	1 1/4	31.8	1.81	46.0	250	17.2	20	16	.90	50	CTN	T	20PM5000	3605-0671
Black	1 1/2	38.1	2.14	54.4	250	17.2	10	20	1.36	25	CTN	T	24PM5000	3605-0675
Black	1 1/2	38.1	2.14	54.4	250	17.2	10	20	1.21	50	CTN	T	24PM5001	3605-0676
Black	2	50.8	2.66	67.6	250	17.2	10	25	1.57	50	CTN	T	32PM5000	3605-0681

Assemblies - Wrapped Cover

Color	Hose I.D.		Hose O.D.		Max. W.P.		Vac.	MBR	Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(In. Hg)	(in)	(Lbs.)	(ea)				
Black	3/4	19.1	1.27	32.3	250	17.2	20	9	31.90	50 ft. F/F	ASSY	T	12PM5030	3605-0736

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PROPER HOSE SELECTION

HOSE FINDER

Water Master™ Slurry Hose 150D AR

Formerly - Steelhead™



RECOMMENDED FOR: Water and slurry discharge in heavy-duty industrial applications where abrasion-resistance is necessary.

TEMPERATURE: -40°F to +150°F (-40°C to +66°C) continuous service.

CONSTRUCTION: **Tube:** SBR - Type D; Limited Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Multiple plies, synthetic textile.
Cover: SBR - Type D; Abrasion Resistant; Smooth; Black with blue stripe. [See characteristics table.](#)
Design Factor: 3:1

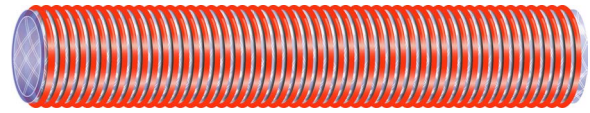
COUPLINGS: 1 Long Shank; 3 Cast Brass or Zinc Short Shank; 5 Brass Pin Lug; 7 Combination Nipple; 49 Industrial Quick-Connecting; 78 Crimp Sleeves. [Reference the Industrial Hose Coupling Selection Overview.](#)

	Hose I.D.		Hose O.D.		Max. W.P.		MBR	Wt. Per ea	Length				
Color	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(in)	(Lbs.)	(ft)	Std. Pack	Pkg Code	Part Number	Gates Item No.
Black	1 5/8	41.3	2.10	53.3	150	10.3	15	.74	100	PLT	T	26WM5000	3135-2652
Black	2	50.8	2.48	63.0	150	10.3	20	.93	100	PLT	T	32WM5000	3135-2654
Black	2 1/2	63.5	2.99	75.9	150	10.3	25	1.14	100	PLT	T	40WM5000	3135-2655
Black	3	76.2	3.49	88.6	150	10.3	36	1.37	200	PLT	T	48WM5000	3135-2661
Black	4	101.6	4.49	114.0	150	10.3	48	1.85	100	PLT	T	64WM5000	3135-2658
Black	6	152.4	6.51	165.4	150	10.3	72	2.84	100	PLT	T	96WM5000	3135-2660

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PROPER HOSE SELECTION
HOSE FINDER



Water Master™ PVC Hose (60-110) SD



RECOMMENDED FOR: Heavy-duty PVC suction and discharge hose designed for applications requiring combined vacuum and higher working pressures. Excellent for use as a fish suction hose and for rental/construction pumping. Clear sidewall allows for easy inspection of material flow and external helix provides for easy drag.

TEMPERATURE: -13°F to +140°F (-25°C to +60°C) continuous service.

CONSTRUCTION: **Tube:** PVC - Type G; Limited Oil Resistance; Clear with polyester braid. [See characteristics table.](#)
Reinforcement: Braided, synthetic textile, rigid thermoplastic helix.
Cover: PVC - Type G; Polyethylene helix; Clear with rigid orange helix. [See characteristics table.](#)
Design Factor: 3:1

COUPLINGS: 1 Long Shank; 6 Malleable Iron Pin Lug; 7 Combination Nipple; 49 Industrial Quick-Connecting; 78 Crimp Sleeves; 84 Dixon Bauer. [Reference the Industrial Hose Coupling Selection Overview.](#)

Color	Hose I.D.		Hose O.D.		Max. W.P.*		Vac.*	MBR	Wt. Per	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(in. Hg)	(in)	(Lbs.)	(ft)				
Clear	2	50.8	2.60	66.0	100	6.9	28	4	.70	100	PLT	T	32WM2000	7744-1505
Clear	3	76.2	3.70	94.0	100	6.9	28	7	1.13	100	PLT	T	48WM2000	7744-1506
Clear	4	101.6	4.78	121.4	75	5.2	28	8	1.74	100	PLT	T	64WM2000	7744-1507
Clear	5	127.0	6.04	153.4	70	4.8	28	10	2.95	100	PLT	T	80WM2000	7744-1508
Clear	6	152.4	7.17	182.1	70	4.8	28	11	3.88	20	PLT	T	96WM2000	7744-1509
Clear	8	203.2	9.34	237.2	60	4.1	28	16	5.54	20	STRT	T	128WM2000	7744-1511

NOTE: * Working Pressure and Vacuum at +72°F (+22°C).

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PROPER HOSE SELECTION

HOSE FINDER

Water Master™ PVC Layflat Hose (45-75) D

Formerly - Master-Flex™ 500



RECOMMENDED FOR: General layflat water discharge service. Excellent for job sites in construction, irrigation and areas where a lightweight, flexible hose is required.

TEMPERATURE: +25°F to +120°F (-4°C to +49°C) continuous service.

CONSTRUCTION:
Tube: PVC - Type G; Blue. [See characteristics table.](#)
Reinforcement: Spiral, synthetic textile, longitudinal synthetic yarn.
Cover: PVC - Type G; Smooth; Blue. [See characteristics table.](#)
Design Factor: 3:1

COUPLINGS: 5 Brass Pin Lug (1 band for 1 1/2"; 2 bands for 2" and larger); 6 Malleable Iron Pin Lug (1 band for 1 1/2"; 2 bands for 2" and larger); 7 Combination Nipple (1 band for 1 1/2"; 2 bands for 2" and larger); 49 Industrial Quick-Connecting (1 band for 1 1/2"; 2 bands for 2" and larger). [Reference the Industrial Hose Coupling Selection Overview.](#)

Color	Hose I.D.		Hose O.D.		Max. W.P.*		Wt. Per ea	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)	(Lbs.)	(ft)				
Blue	1 1/2	38.1	1.67	42.4	75	5.2	.17	300	PLT	T	24WM2100	7744-1001
Blue	2	50.8	2.16	54.9	65	4.5	.21	300	PLT	T	32WM2100	7744-1002
Blue	2 1/2	63.5	2.55	64.8	60	4.1	.28	300	PLT	T	40WM2100	7744-1003
Blue	3	76.2	3.17	80.5	60	4.1	.39	300	PLT	T	48WM2100	7744-1004
Blue	4	101.6	4.20	106.7	60	4.1	.53	300	PLT	T	64WM2100	7744-1005
Blue	6	152.4	6.20	157.5	45	3.1	.88	300	PLT	T	96WM2100	7744-1006
Blue	8	203.2	8.16	207.3	45	3.1	1.27	300	PLT	T	128WM2100	7744-1007

NOTE: * Working Pressure at +72°F (+22°C).



Water Master™ Plus PVC Layflat Hose (100-150) D



- RECOMMENDED FOR:** Medium-duty discharge applications in mining, construction, industrial, agriculture and marine service. Limited oil and chemical application.
- TEMPERATURE:** -10°F to +150°F (-23°C to +66°C) continuous service.
- CONSTRUCTION:** **Tube:** PVC - Type G; Limited Oil Resistance; Black. [See characteristics table.](#)
Reinforcement: Spiral, synthetic textile, longitudinal synthetic yarn.
Cover: PVC - Type G; Smooth; Red. [See characteristics table.](#)
Design Factor: 3:1
- COUPLINGS:** 5 Brass Pin Lug; 6 Malleable Iron Pin Lug; 7 Combination Nipple; 49 Industrial Quick-Connecting; 84 Dixon Bauer. [Reference the Industrial Hose Coupling Selection Overview.](#)

150 psi Working Pressure

Color	Hose I.D.		Hose O.D.		Max. W.P.*		Wt. Per	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)						
Red	1 1/2	38.1	1.71	43.4	150	10.3	.23	300	PLT	T	24WM4200	7744-1538
Red	2	50.8	2.24	56.9	150	10.3	.36	300	PLT	T	32WM4200	7744-1539
Red	2 1/2	63.5	2.79	70.9	150	10.3	—	300	PLT	T	40WM4200	7744-1540

NOTE: * Working Pressure at +72°F (+22°C).

125 psi Working Pressure

Color	Hose I.D.		Hose O.D.		Max. W.P.*		Wt. Per	Length	Std. Pack	Pkg Code	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(psi)	(Bar)						
Red	3	76.2	3.29	83.6	125	8.6	.46	300	PLT	T	48WM4200	7744-1541

NOTE: * Working Pressure at +72°F (+22°C).

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HOW TO USE THE COUPLING SECTION

NOTE: Because the hose/coupling interface is critical to hose assembly performance, always follow the specific instructions of hose and coupling manufacturers regarding the match of hose/fittings and assembly procedures. Trained personnel using proper tools and procedures should make hose assemblies. Failure to follow hose and couplings manufacturers' instructions or failure to use trained personnel might be dangerous and could result in damage to property and serious bodily injury.

Couplings are designated by Numbers, and are described as to construction and source. Adapters and fittings are available for special applications.

The proper clamp size should be selected carefully, since many clamps will fit only one hose size or a narrow range of sizes. For certain critical fluids, specific couplings are used, as follows:

CRITICAL APPLICATIONS

1. Use only the couplings recommended in this catalog for conveying:

- Steam
- LP Gas
- Corrosive Chemicals
- Edible Products
- Petroleum Products

2. For conveying flammable fluids, use couplings made of nonsparking materials, such as brass or aluminum.

3. For ground fueling of aircraft, use certified coupled assemblies only.

When you have selected a hose from the Hose Section, you will have found one or more coupling recommendations for that hose. The following procedure will help you make the final selection:

- a. If more than one coupling is recommended, make a final selection for type of coupling on basis of cost, sizes available, thread type available and application.
- b. Determine how the coupling is to be fastened to the hose – crimp sleeve, ferrule, band or clamp.



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COUPLING INSTALLATION

Before making any hose assembly, check these general instructions and precautions:

- 1. Square Ends** - Before attaching a coupling to the hose, make sure the end is cut square. This will help prevent leakage of the coupling.
- 2. Proper Fit of Ferrules and Clamps** - This is important. Make sure you are using the correct sizes for the hose being coupled. Never buff the cover, except when specified for certain hydraulic hose couplings, and you should not enlarge the hose tube in any way to make the coupling insert fit. Occasionally, a nipple pusher tool will be helpful in pushing the insert into the hose.
- 3. Installation Lubricants** - Use of lubricants on coupling inserts and ferrules will simplify coupling installation and reduce possibility of damage to the hose. Some lubricants to use are water, soap solution or Lactol. Or, you can use a solution of glycerin and alcohol made up of one (1) part glycerin and 15 parts wood alcohol by volume.
- 4. Appearance of the Hose Assembly** - A properly installed coupling significantly improves customer acceptance of the product. It also provides added assurance of satisfactory service and safety of assembly.
- 5. Seal the Ends** - Where the hose is intended for use in petroleum transfer applications and hose ends will be exposed after couplings are attached, apply a sufficient amount of quality Neoprene cement or shellac to seal the ends.

NOTE: Refer to NAHAD Industrial Hose Assembly Guidelines for installation information and additional general information.





PIPE THREAD USAGE

There are several terms or abbreviations which have come into common use for denoting pipe threads. Some of these are:

- Iron Pipe Threads
- IPT
- Tapered IPT
- Straight IPT
- IP-S
- IP-T
- NPT

These may be satisfactory for general reference, but since there are several types of pipe thread, it is best to use the notations as given by a recognized standard (ANSI B2.1). The types in this standard which are used with industrial hose couplings are listed later in this section.

Compatibility of threads and method of sealing determine which type of thread is to be used.

An NPT male and female form a pressure-tight joint, and usually some type of sealing compound is placed on the threads. NPTF threads are similar in that the seal is made by tight fit between the threads. However the fit is close enough that a sealing compound is not needed.

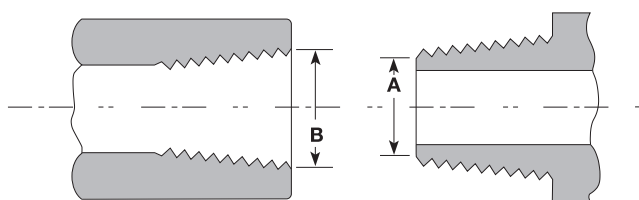
NPSM threads are used for either male or female fittings, but the seal is formed by compressing a packing or by metal contact between chamfers on the male and female. Size range is from 1/4" through 6" nominal pipe I.D.

Long shank couplings and pin lug couplings are examples where the male has NPSM threads. Reusable petroleum couplings are examples of sets in which the male has NPT threads.

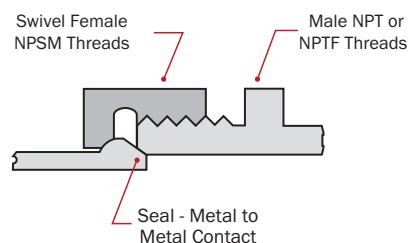
Standard brass inserts have NPTF males and solid females and NPSM swivel females. The seal is made by contact of chamfers or tight fit of threads.

COMBINATIONS OF PIPE THREADS THAT ARE COMPATIBLE:

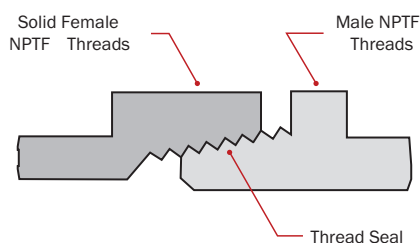
FEMALE	MALE
NPT (Thread Seal)	NPT NPTF
NPTF (Thread Seal)	NPTF (DrySeal) NPT
NPSM (Washer Seal)	NPT NPTF NPSM
NPSM (Mechanical Seal)	NPT NPTF
NPSH (Washer Seal)	NPSH NPT



MECHANICAL JOINT



DRYSEAL JOINT



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PIPE THREAD **USAGE** (CONTINUED)

CHART NO.1 AMERICAN STANDARD PIPE THREADS (ANSI B2.1)

NOMINAL PIPE SIZE (LN.)	PIPE O.D. (LN.)	THREADS PER INCH	NPT & NPTF	NPT	NPSM**	
			*Ext. Thrd. Pitch (A) Diameter	*Int. Thrd. Pitch (B) Diameter	Ext. Thrd. Max. Major Diameter	Int. Thrd. Min. Minor Diameter
1/8	405	27	0 36351	0 37476	0 409	0 362
1/4	504	18	0 47739	0 48989	0 541	0 470
3/8	675	18	0 61201	0 62701	0 678	0 607
1/2	840	14	0 75843	0 77843	0 844	0 753
3/4	1 050	14	0 96768	0 98887	1 054	0 964
1	1 315	11-1/2	1 21363	1 23863	1 318	1 208
1-1/4	1 660	11-1/2	1 55713	1 58338	1 663	1 553
1-1/2	1 900	11-1/2	1 79609	1 82234	1 902	1 792
2	2 375	11-1/2	2 26902	2 29627	2 376	2 265
2-1/2	2 875	8	2 71593	2 76216	2 877	2 718
3	3 500	8	3 34062	3 38850	3 503	3 344
3-1/2	4 000	8	3 83750	3 88881	4 003	3 845
4	4 500	8	4 33438	4 38712	4 502	4 343
5	5 563	8	5 39073	5 44929	5 564	5 405
6	6 625	8	6 44609	6 50597	6 620	6 462

* Dimensions A & B shown on the sketch above ** Loose Fitting

CHART NO. 2 AMERICAN STANDARD PIPE THREADS FOR HOSE COUPLINGS AND NIPPLES

	NOMINAL SIZE HOSE I.D. (IN.)	THREADS PER INCH	PITCH	DEPTH OF THREAD	MAJOR DIAM. MIN.
GHT	1/2, 3/8, 3/4	11-1/2	Coupling 0 08696	0 05648	1 0725
	1/2, 3/8, 3/4	11-1/2	Nipple 0 08696	0 05648	1 0625
NPSH	1/2	14	0 07143	0 04639	0 8323
	3/4	14	0 07143	0 04639	1 0428
	1	11-1/2	0 08696	0 05648	1 3051
	1-1/4	11-1/2	0 08696	0 05648	1 6499
	1-1/2	11-1/2	0 08696	0 05648	1 8888
	2	11-1/2	0 08696	0 05648	2 3628
	MALE				MAJOR DIAM. MIN.
	1/2	14	0 07143	0 04639	0 8248
	3/4	14	0 07143	0 04639	1 0353
	1	11-1/2	0 08696	0 05648	1 2951
	1-1/4	11-1/2	0 08696	0 05648	1 6399
	1-1/2	11-1/2	0 08696	0 05648	1 8788
	2	11-1/2	0 08696	0 05648	2 3528



INDUSTRIAL HOSE COUPLING SELECTION OVERVIEW



1. LONG SHANK

Description: Cast brass, serrated shank, set has hex male and hex swivel female couplings, with a washer seal .Threads are GHT or NPSM .

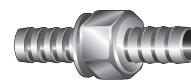
Sources: A P G
Dixon Valve & Coupling Co .
Seal-Fast, Inc .



2. LIGHTWEIGHT WATER HOSE

Description: Spun or wrought brass serrated shank, round swivel female and solid male, both GHT, washer seal .

Sources: L R .Nelson Corp .



3. CAST BRASS OR ZINC SHORT SHANK

Description: Cast brass, serrated shank, hex swivel female with washer, solid male, GHT threads, 3/4-1 1/2 .

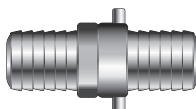
Sources: A P G
Seal-Fast, Inc .



4. MACHINED BRASS SHORT SHANK

Description: Machined brass, serrated shank .Each set has round swivel female and solid male, GHT, washer seal .Octagon nut male and female .

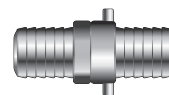
Sources: Anderson Fittings
A P G
Campbell Fittings, Inc .
Dixon Brass
Lenz, Inc .



5. BRASS PIN LUG

Description: Cast brass shank and swivel, shank is serrated .NPSM threads in female and male, with washer seal .Sizes under 3" have lugs on female only .

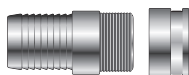
Sources: A P G
Dixon Valve & Coupling Co .
PT Coupling Co .



6. MALLEABLE IRON PIN LUG

Description: Malleable iron shank and swivel with serrated shank, cadmium plated .NPSM threads in male and female, washer seal .Pin lugs on female only .

Sources: A P G
Dixon Valve & Coupling Co .
PT Coupling Co .



7. COMBINATION NIPPLE

Description: Crimped/swaged steel with scored or serrated shank, NPT threads same nominal size as I D .of hose .Special plastic materials available .

Sources: A P G
Campbell Fittings, Inc .
Dixon Valve & Coupling Co .
PT Coupling Co .
Seal-Fast, Inc .



8. TRI-LOKT

Description: Machined steel insert, male NPT threads only .Held in place with steel yoke and Band-It Jr .clamps .Insert is reusable — can be reinstalled with new yoke and clamps .

Source: Band-It-IDEX, Inc .



10. SINGLE OR DOUBLE BOLT MALLEABLE IRON CLAMP

Description: Cast malleable iron, cadmium plated .

Source: Dixon Valve & Coupling Co .
PT Coupling Co .

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14. INTERLOCKING, GROUND JOINT

Description: Malleable iron swivel .Inserts and spud may be either steel or malleable iron .All parts are cadmium plated .Male and female threads both NPT with same nominal size as hose I D .Ground joint between spud and female insert .Available with 2- and 4-bolt clamps .

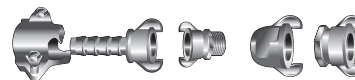
Sources: Dixon Valve & Coupling Co .
PT Coupling Co .
Seal-Fast, Inc .



15. INTERLOCKING, WASHER JOINT

Description: Malleable iron swivel .Insert and spud may be either malleable iron or steel .All parts are cadmium plated .Female thread in spud is NPT with same nominal size as hose I D .Washer joint between insert and spud .Available with 2- and 4-bolt clamps .

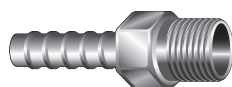
Source: Campbell Fittings, Inc .
Dixon Valve & Coupling Co .
PT Coupling Co .



18. UNIVERSAL QUICK ACTING

Description: Cast malleable iron with cadmium plate, cast bronze .Washer seal between two quick-acting heads .Several types of heads are available, but all have same-size attaching heads regardless of hose size .Fingers lock together with quarter-turn rotation . Sometimes called Crowfoot or Chicago-style couplings .

Sources: A P G
Campbell Fittings, Inc .
Dixon Valve & Coupling Co .
PT Coupling Co .
Seal-Fast, Inc .



19. STANDARD AIR HOSE

Description: Machined brass, with serrated shank, NPTF threads on hex solid male and on hex solid female, and NPSM threads on hex swivel female .

Sources: Anderson Fittings
A P G
Dixon Valve & Coupling Co .
Campbell Fittings, Inc .



20. BRASS FERRULES

Description: All stock ferrules are plain drawn brass .

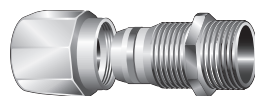
Sources: Anderson Fittings
Dixon Valve & Coupling Co .
Plews-Schrader
Truex, Inc .
Winzler Stamping Co .



21. PREFORMED BAND CLAMPS

Description: A preformed ring clamp of rust-resistant carbon steel or Type 201 stainless steel .Also available in Type 316 stainless steel, and non-sparking silicon bronze .Available in 100-foot rolls, carbon steel or stainless .

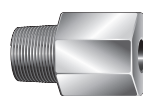
Sources: Band-It-IDEX, Inc .
Fast-Lok Hose Clamps
PT Coupling Co .
Dixon Valve & Coupling Co .



23. REUSABLE GASOLINE PUMP

Description: : Various materials; Two piece construction .Male NPT or IPT threads (also see coupling 47) .

Sources: PT Coupling Co .
Dixon Valve & Coupling Co .



24. PERMANENT GASOLINE PUMP HOSE

Description: Various materials; One piece construction .Male NPT or IPT threads .

Sources: Serv-All Die and Tool Co .
Dixon Valve & Coupling Co .



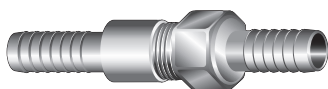
26. INTERNAL EXPANSION-BRASS

Description: Body is forged brass .Ferrule is cold-drawn copper alloy .Male coupling has NPT threads, female swivel coupling has NPSH threads .All threads same nominal size as hose I D .except 1-3/8" I D . size which has 1-1/2 - 11-1/2 threads .On 1-1/2" and larger sizes, female has special tightening lugs .

Sources: Dixon Valve & Coupling Co .
ProGrip Co .
United Metal Industries, Inc .



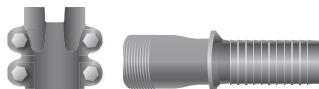
INDUSTRIAL HOSE COUPLING SELECTION OVERVIEW (CONTINUED)



34. STAINLESS STEEL NIPPLES

Description: Type 316 stainless steel, with serrated shank, solid male NPT threads, hex swivel female, NPSM threads, washer seal. Threads same nominal size as hose I.D.

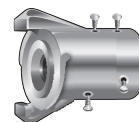
Sources: Dixon Valve & Coupling Co.
Martin Brass Works, Inc.
Campbell Fittings, Inc.



35. FOUR-FINGER BOSS CLAMP

Description: Plated iron, stainless steel and brass clamps in 2, 3 and 4 gripping finger configurations. Corresponding stems come in NPT or beveled ends. Available in 2-, 4- and 6-bolt clamps. Follow manufacturer's recommendations for bolt torque and tightening sequence procedures.

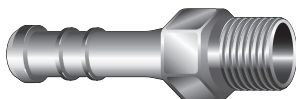
Sources: Dixon Valve & Coupling Co.



36. SANDBLAST

Description: Sand blast couplings are designed for use on sand blast hose. Couplings are supplied with screws.

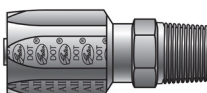
Sources: A P G
Campbell Fitting, Inc.
Dixon Valve & Coupling Co.
PT Coupling Co.
Seal-Fast, Inc.



48. BAND-IT NIPPLES

Description: Machined steel hex inserts, rust-resistant blued finish, serrated shank, male NPT threads.

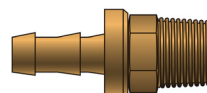
Sources: Band-It-IDEX, Inc.



50. FIELD ATTACHABLE C5 COUPLINGS

Description: Brass or zinc-plated carbon steel for easy assembly fabrication on Gates C5 hose without the need for a crimper.

Sources: Gates Corp.



51. BRASS FIELD ATTACHABLE COUPLINGS

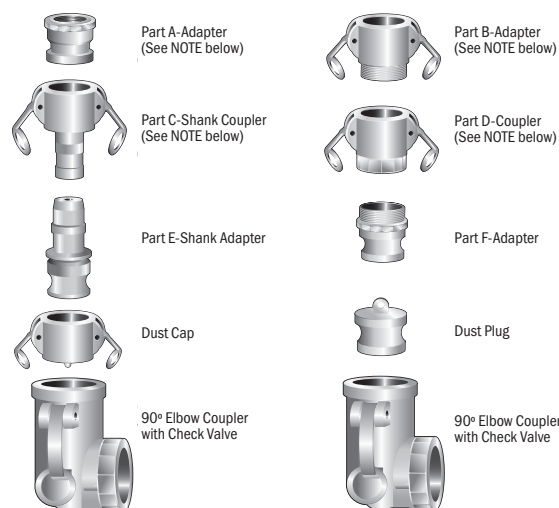
Description: 360 Brass for fuel/fluid lines or vacuum lines in low or medium-pressure applications. Hose clamps or ferrules not needed or recommended.

Sources: Gates Corp.

49. QUICK-CONNECTING (CAM & GROOVE)

Description: The basic parts of this coupling are a bronze female shank coupler and a male adapter, which have a washer seal but no threads. These two parts fit snugly together and are held in place by two cams on the female shank coupler which rotate against a groove in the male adapter. This allows the coupling to be connected or disconnected very quickly. Adapters and dust caps are available as shown below. Standard materials are bronze or aluminum.

Sources: A P G
Banjo Corporation
Campbell Fittings, Inc.
Dixon Valve & Coupling Co.
Ever-Tite Coupling
OPW Engineered Systems
PT Coupling Co.
Scully Signal Co.
Seal-Fast, Inc.



NOTE: Part A and Part D have female NPT threads. Part B and Part F have male NPT threads. Above threads have same nominal size as hose I.D. The above couplers and adapters are used to convert threaded-end couplings to quick connect.

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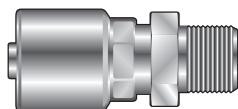
HOSE FINDER



61. CENTER PUNCH

Description: Open-end band or preformed band of rust-resistant steel. Also available in stainless steel.

Sources: Fast-Lok Hose Clamps
PT Coupling Co.



74. GATES MEGACRIMP™ *

Description: NPT threads on connecting end of stem for easy flange attachment. Tuffcoat plated steel. The "C" insert assures an even distribution of crimping forces to form a concentric seal.

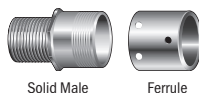
Sources: Gates Corp.



78. CRIMP SLEEVES

Description: Available in plated steel, 316 stainless steel and aluminum. Suitable for replacing band clamps when using pin lug, combination nipple or cam and groove stems. Working pressures are determined by the type of couplings and hose used.

Sources: APG
Campbell Fittings, Inc.
Dixon Valve & Coupling Co.
PT Coupling Co

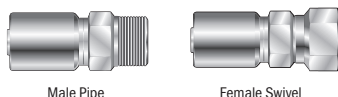


Solid Male Ferrule

71. PERMANENT SWAGED OR CRIMPED

Description: API or NPT threads on connecting end of stem for easy flange attachment. Strong collar to anchor ferrule to stem. Electroplated steel. Also available in stainless steel, brass and other special metals.

Sources: Campbell Fittings, Inc.
(Max .1500 psi)
Dixon Valve & Coupling Co.
George Myer Company, Inc.
PT Coupling Co.

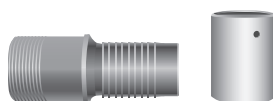


Male Pipe Female Swivel

75. GATES GLX™ *

Description: One piece staked ferrule design. Smooth ferrule I.D. designed for textile reinforced hoses. Male and female pipe, female JIC 37° flare swivel and male and female SAE 45° flare terminations. TuffCoat™ plated steel for 400 hour red rust corrosion protection (SAE-J516 and ASTM-B-117 salt spray conditions).

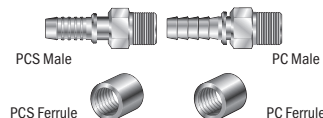
Sources: Gates Corp.



79. HOLEDALL PERMANENT SWAGED – LONG STYLE

Description: Patented Holedall couplings include a Holedall stem and specially engineered ferrule. This multi-purpose, high-pressure coupling system requires no bolts and results in a clean coupling with no protrusions.

Sources: Dixon Valve & Coupling Co.

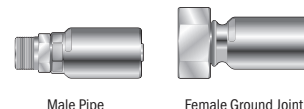


PCS Male PCS Ferrule PC Male PC Ferrule

72. GATES POWER CRIMP™ *

Description: API or NPT threads on connecting end of stem for easy flange attachment. Strong collar to anchor ferrule to stem. Electroplated steel. Also available in stainless steel.

Sources: Gates Corp.

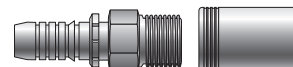


Male Pipe Female Ground Joint

76. PERMANENT CRIMPED STEAM

Description: Permanently crimped steam hose couplings – Female Viton™ Seal Ground Joint or Male NPT Thread. Precision metal to metal contact with a Viton seal provides leak-free performance. Streamlined permanently crimped ferrule eliminates protruding bolts that require retightening and can catch on equipment or cause injury.

Sources: Campbell Fittings, Inc.
Dixon Valve & Coupling Co.



80. GATES GSP™ *

Description: Two piece, no skive design engineered for high-pressure, high-impulse applications. TuffCoat™ plated steel for 400 hour red rust corrosion protection (SAE-J516 and ASTM-B-117 salt spray conditions).

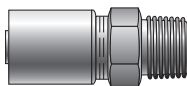
Sources: Gates Corp.



*NOTE: For Hose/Coupling configurations, reference www.gates.com/ecrimp



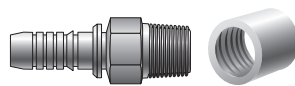
INDUSTRIAL HOSE COUPLING SELECTION OVERVIEW (CONTINUED)



81. GATES GL™ *

Description: One piece staked ferrule design .Smooth ferrule I D .designed for textile and helical reinforced transfer hoses .Male and female pipe, male and female JIC 37° flare and male and female SAE 45° flare terminations .TuffCoat plated steel for 400 hour red rust corrosion protection (SAE-J516 and ASTM-B-117 salt spray conditions) .

Sources: Gates Corp .



82. GATES STAINLESS STEEL *

Description: Two piece, no skive design . Made of stainless steel for high corrosion resistance .

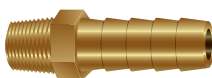
Sources: Gates Corp .



84. DIXON BAUER

Description: Dixon™ combination nipple style hose shank machined from Schedule 40 pipe . Recommended for use with steel King Crimp™ sleeves .All components are galvanized .

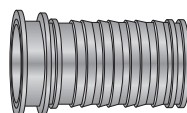
Sources: Dixon Valve & Coupling Co .



88. BRASS MALE NPT X HOSE BARB

Description: All standard hose fittings are intended for use with hose clamps or crimped ferrules .

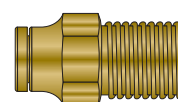
Sources: Dixon Valve & Coupling, Co .



91. SANITARY FLANGE

Description: Stainless steel hose stem with a sanitary flange end (Tri-Clamp) for Data Cooling, Food & Beverage and other sanitary applications .

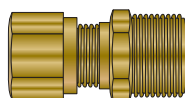
Sources: Dixon Valve & Coupling Co .
PT Coupling Co .
Campbell Fittings Inc .



92. INDUSTRIAL SURELOK™

Description: Nickel-plated 360 brass body with silicone-free nitrile o-ring . Recommended for use with compressed air, pneumatic applications, lubrication and cooling lines .

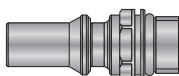
Sources: Gates Corp .



93. AIR BRAKE COMPRESSION

Description: 360 Brass field-serviceable fittings comprised of four component parts - Nut, Sleeve, Tube Support and Coupling Body .Recommended for use in air brake systems - compressed air for suspension, steering, engine, transmission or other onboard vehicle applications . As a connector on all air brake systems at locations other than between chassis frame and axle or between towed and towing vehicle .

Sources: Gates Corp .



94. UNIVERSAL QUICK DISCONNECT (UQD)

Description: Precision-machined stainless steel fittings with robust sealing technology for high-performance cooling in data centers, industrial automation, and other mission-critical applications .

Sources: Gates Corp .



***NOTE:** For Hose/Coupling configurations, reference www.gates.com/ecrimp

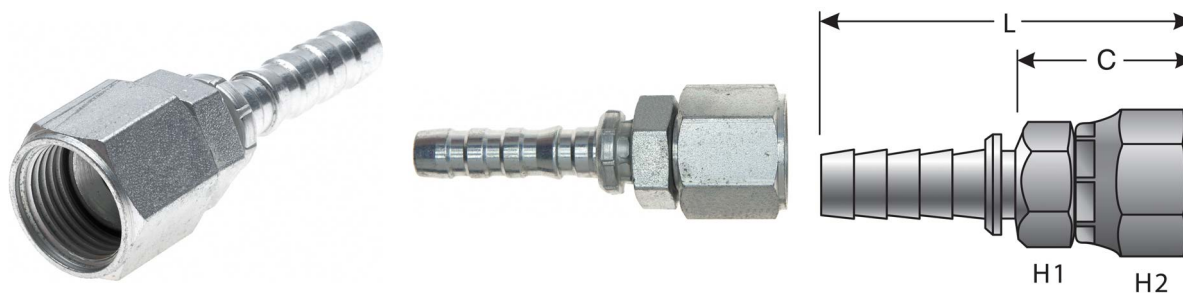
TECHNICAL DATA
AGRICULTURE
AIR BREATHING
AIR DUCT
AIR & MULTI-PURPOSE
CHEMICAL
DATA CENTER
ENGINE & MARINE
FOOD & BEVERAGE
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CHEMICAL RESISTANCE TABLE
PROPER HOSE SELECTION
HOSE FINDER

Male Pipe (NPTF - 30° Cone Seat)



	Hose I.D.		H1	L		C		Wt. Per ea (Lbs.)	Pkg Qty	Part Number	Gates Item No.
Description	(in)	Thread	(in)	(in)	(mm)	(in)	(mm)				
4B-4MP-SS	1/4	1/4-18	9/16	2.16	54.9	1.14	29.0	.07	1	G17100-0404	7362-00245
6B-6MP-SS	3/8	3/8-18	11/16	2.32	58.9	1.22	31.0	.10	1	G17100-0606	7362-00275
8B-8MP-SS	1/2	1/2-14	7/8	2.89	73.4	1.46	37.1	.18	1	G17100-0808	7362-00295
12B-12MP-SS	3/4	3/4-14	1 1/16	3.21	81.5	1.51	38.3	.29	1	G17100-1212	7362-00325
16B-16MP-SS	1	1-11 1/2	1 3/8	3.62	91.9	1.91	48.6	.52	1	G17100-1616	7362-00355
20B-20MP-SS	1 1/4	1 1/4-11 1/2	1 3/4	4.45	113.0	2.15	54.6	1.06	1	G17100-2020	7362-00385
24B-24MP-SS	1 1/2	1 1/2-11 1/2	2	5.24	133.1	2.34	59.4	2.00	1	G17100-2424	7362-00405
32B-32MP-SS	2	2-11 1/2	2 1/2	6.05	153.7	2.43	61.7	2.34	1	G17100-3232	7362-00425

Female JIC 37° Flare Swivel

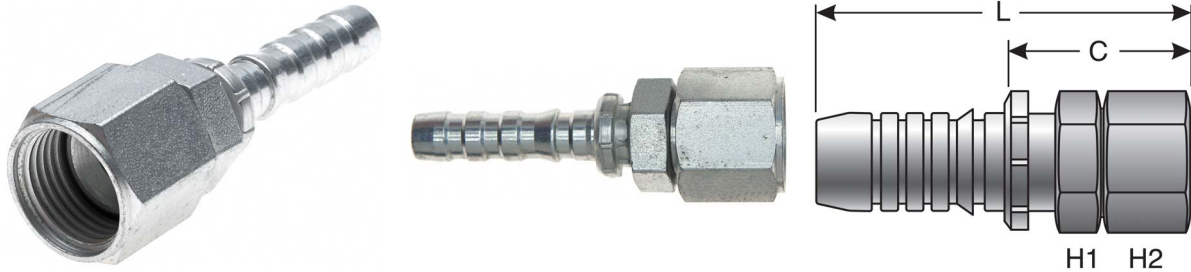


	Hose I.D.		H1	H2	L		C		Wt. Per ea (Lbs.)	Pkg Qty	Part Number	Gates Item No.
Description	(in)	Thread	(in)	(in)	(in)	(mm)	(in)	(mm)				
6B-6FJX-SS	3/8	9/16-18	5/8	3/4	2.35	59.7	1.26	32.0	.11	1	G17170-0606	7362-01225
12B-12FJX-SS	3/4	1 1/16-12	1 1/16	1 1/4	3.41	86.6	1.71	43.4	.35	1	G17170-1212	7362-01315
16B-16FJX-SS	1	1 5/16-12	1 3/8	1 1/2	3.66	93.0	1.95	49.5	.55	1	G17170-1616	7362-01375
20B-20FJX-SS	1 1/4	1 5/8-12	1 7/8	2	4.72	119.9	2.42	61.5	1.27	1	G17170-2020	7362-01405
24B-24FJX-SS	1 1/2	1 7/8-12	2	2 1/4	5.39	136.9	2.50	63.5	1.70	1	G17170-2424	7362-01435
32B-32FJX-SS	2	2 1/2-12	2 3/4	3	6.48	164.6	2.86	72.6	3.00	1	G17170-3232	7362-01465



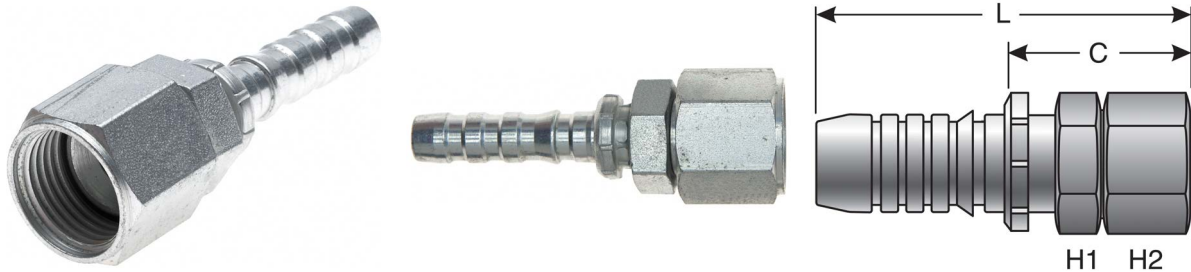
STAINLESS STEEL BRAID COUPLINGS

Female SAE 45° Flare Swivel



Description	Hose I.D. (in)	Thread	H1 (in)	H2 (in)	L (in) (mm)		C (in) (mm)		Wt. Per ea (Lbs.)	Pkg Qty	Part Number	Gates Item No.
12B-12FSX-SS	3/4	1 1/16-14	1 1/16	1 1/4	3.41	86.6	1.71	43.4	.32	1	G17200-1212	7362-01335

Dual Seat Female JIC 37°/SAE 45° Flare Swivel



Description	Hose I.D. (in)	Thread	H1 (in)	H2 (in)	L (in) (mm)		C (in) (mm)		Wt. Per ea (Lbs.)	Pkg Qty	Part Number	Gates Item No.
4B-4FJSX-SS	1/4	7/16-20	1/2	9/16	2.24	56.9	1.22	31.0	.07	1	G17210-0404	7362-01205
8B-8FJSX-SS	1/2	3/4-16	13/16	7/8	2.82	71.6	1.38	35.1	.16	1	G17210-0808	7362-01265
10B-10FJSX-SS	5/8	7/8-14	15/16	1 1/16	3.06	77.7	1.62	41.1	.25	1	G17210-1010	7362-01285

TECHNICAL DATA

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OILFIELD

PETROLEUM

PRESSURE WASH & WASHDOWN

STEAM

WATER

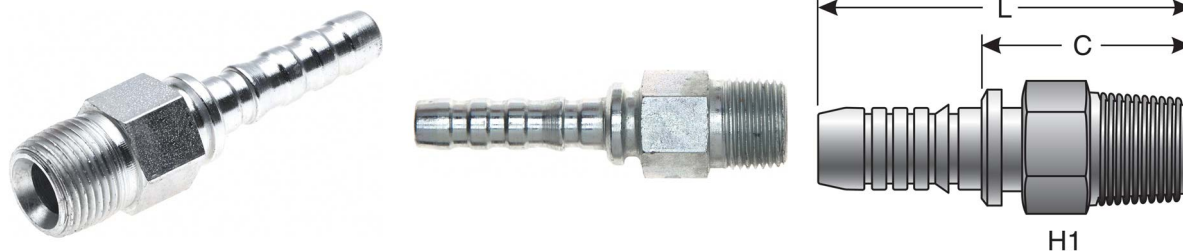
COUPLINGS & CLAMPS

CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

HOSE FINDER

Male Pipe (NPTF - 30° Cone Seat)



	Hose I.D.		H1	L		C		Wt. Per ea (Lbs.)	Pkg Qty	Part Number	Gates Item No.
Description	(in)	Thread	(in)	(in)	(mm)	(in)	(mm)				
6GS-6MP	3/8	3/8-18	11/16	2.72	69.1	1.31	33.2	.10	1	G20100-0606	7347-20145
6GS-8MP	3/8	1/2-14	7/8	2.87	73.0	1.46	37.2	.15	1	G20100-0608	7347-20155
8GS-8MP	1/2	1/2-14	7/8	2.91	74.0	1.44	36.5	.11	1	G20100-0808	7347-20245
8GS-12MP	1/2	3/4-14	1 1/16	3.03	77.0	1.56	39.5	.31	1	G20100-0812	7347-20265
10GS-8MP	5/8	1/2-14	15/16	3.35	85.1	1.45	36.7	.26	1	G20100-1008	7347-20335
10GS-12MP	5/8	3/4-14	1 1/8	3.58	91.0	1.60	40.7	.33	1	G20100-1012	7347-20355
12GS-8MP	3/4	1/2-14	1 1/16	3.54	89.9	1.54	39.1	.35	1	G20100-1208	7347-20425
12GS-12MP	3/4	3/4-14	1 1/16	3.54	89.9	1.54	39.1	.33	1	G20100-1212	7347-20445
12GS-16MP	3/4	1-11 1/2	1 3/8	3.82	97.0	1.81	46.0	.57	1	G20100-1216	7347-20465
16GS-12MP	1	3/4-14	1 3/8	3.98	101.1	1.74	44.2	.33	1	G20100-1612	7347-20535
16GS-16MP	1	1-11 1/2	1 3/8	4.17	105.9	1.94	49.2	.53	1	G20100-1616	7347-20555
20GS-20MP	1 1/4	1 1/4-11 1/2	1 3/4	5.00	127.0	2.20	55.9	1.25	1	G20100-2020	7347-20645

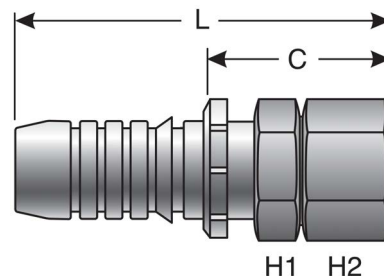
Male Pipe (NPTF - 30° Cone Seat) - Long Hex



	Hose I.D.		H1	L		C		Wt. Per ea (Lbs.)	Pkg Qty	Part Number	Gates Item No.
Description	(in)	Thread	(in)	(in)	(mm)	(in)	(mm)				
16GS-16MPLH	1	1-11 1/2	1 3/8	5.16	131.1	2.92	74.2	.93	1	G20103-1616	7347-76545



Female JIC 37° Flare Swivel



Description	Hose I.D. 	Thread	H1	H2	L		C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(in)	(mm)	(in)	(mm)	(Lbs.)			
6GS-6FJX	3/8	9/16-18	3/4	3/4	2.72	69.1	1.31	33.2	.12	1	G20170-0606	7347-24145
6GS-8FJX	3/8	3/4-16	3/4	7/8	2.80	71.1	1.39	35.2	.14	1	G20170-0608	7347-24155
8GS-8FJX	1/2	3/4-16	7/8	7/8	2.83	71.9	1.36	34.5	.31	1	G20170-0808	7347-24245
8GS-10FJX	1/2	7/8-14	7/8	1 1/16	2.99	76.0	1.51	38.4	.25	1	G20170-0810	7347-24255
8GS-12FJX	1/2	1 1/16-12	7/8	1 1/4	3.03	77.0	1.56	39.5	.30	1	G20170-0812	7347-24265
10GS-10FJXMM	5/8	7/8-14	1 3/16	1 1/16	3.68	93.5	1.80	45.7	.38	1	G20170-1010	7347-82175
10GS-12FJX	5/8	1 1/16-12	1	1 1/4	3.74	95.0	1.76	44.7	.42	1	G20170-1012	7347-24355
12GS-10FJX	3/4	7/8-14	1 1/16	1 1/8	3.87	98.3	1.87	47.4	.44	1	G20170-1210	7347-24435
12GS-12FJX	3/4	1 1/16-12	1	1 1/4	3.87	98.3	1.85	47.0	.46	1	G20170-1212	7347-24445
12GS-14FJX	3/4	1 3/16-12	1 1/8	1 3/8	4.06	103.1	2.06	52.2	.55	1	G20170-1214	7347-24455
12GS-16FJX	3/4	1 5/16-12	1 1/4	1 1/2	4.02	102.1	2.01	51.1	.51	1	G20170-1216	7347-24465
16GS-12FJX	1	1 1/16-12	1 3/8	1 3/8	4.25	108.0	2.00	50.7	.57	1	G20170-1612	7347-24535
16GS-14FJX	1	1 3/16-12	1 3/8	1 1/2	4.25	108.0	2.01	51.1	.73	1	G20170-1614	7347-24545
16GS-16FJX	1	1 5/16-12	1 1/2	1 1/2	4.30	109.2	2.10	53.3	.70	1	G20170-1616	7347-24555
16GS-20FJX	1	1 5/8-12	1 1/2	2	4.53	115.1	2.31	58.6	1.20	1	G20170-1620	7347-24565
20GS-16FJX	1 1/4	1 5/16-12	1 3/4	1 5/8	5.08	129.0	2.28	57.9	1.19	1	G20170-2016	7347-24635
20GS-20FJX	1 1/4	1 5/8-12	1 7/8	2	5.29	134.4	2.56	65.0	1.72	1	G20170-2020	7347-24645
20GS-24FJX	1 1/4	1 7/8-12	1 7/8	2 3/8	5.39	136.9	2.59	65.9	2.07	1	G20170-2024	7347-24655

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COUPLINGS & CLAMPS

CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

HOSE FINDER

Male Pipe (NPTF - 30° Cone Seat)



Description	Hose I.D.	Thread	H1	L		C		Wt. Per ea (Lbs.)	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(mm)	(in)	(mm)				
24GSM-24MP	1 1/2	1 1/2-11 1/2	2	6.51	165.4	2.77	70.3	3.60	1	G24100-2424	7341-02585
32GSM-32MP	2	2-11 1/2	2 3/4	7.54	191.6	3.05	77.6	6.50	1	G23100-3232	7341-20405

API Line Pipe Connection



Description	Hose I.D.	Thread	H1	L		C		Wt. Per ea (Lbs.)	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(mm)	(in)	(mm)				
24GSM-24API-LP	1 1/2	1 1/2 API 5B LP	2	5.76	146.3	3.43	87.1	3.85	1	G24102-2424	7341-02735
32GSM-32API-LP	2	2 API 5B LP	2 3/4	9.39	238.4	4.90	124.4	8.46	1	G23102-3232	7341-20305
40GSM-40API-LP	2 1/2	2 1/2 API 5B LP	—	12.44	316.0	5.47	139.0	13.56	1	G24102-4040	7341-20675
48GSM-48API-LP	3	3 API 5B LP	—	14.13	359	6.38	162.1	21.17	1	G24102-4848	7341-20715



Female JIC 37° Flare Swivel



Description	Hose I.D. 	Thread	H1	H2	L		C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(in)	(mm)	(in)	(mm)	(Lbs.)			
24GSM-24FJX	1 1/2	1 7/8-12	2 11/64	2 23/64	6.78	172.2	3.05	77.4	4.25	1	G24170-2424	7341-02525
32GSM-32FJX	2	2 1/2-12	2 49/64	2 61/64	8.08	205.1	3.59	91.1	7.75	1	G23170-3232	7341-20455

TECHNICAL DATA

AGRICULTURE

AIR BREATHING

AIR DUCT

AIR & MULTI-PURPOSE

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CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

HOSE FINDER

GSM™ with Integral 2" Fig. 1502 Hammer Unions



2" Figure 1502 Female Sub with Seal

Description	Hose I.D.	L		C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)	(in)	(mm)	(in)	(mm)	(Lbs.)			
24GSM-32FHU	1.50	6.48	164.6	2.52	64.0	5.49	1	G23867-2432	7341-02675
32GSM-32FHU 1502	2.00	7.35	186.6	2.86	72.6	8.65	1	G23867-3232	7341-20315

2" Figure 1502 Male Sub with Wing Nut

Description	Hose I.D.	L		C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)	(in)	(mm)	(in)	(mm)	(Lbs.)			
24GSM-32MHUWN	1.50	6.65	169.0	2.90	73.6	16.43	1	G23866-2432	7341-02695
32GSM-32MHUWN	2.00	7.25	184.1	2.76	70.1	18.50	1	G23866-3232	7341-20335

2" Figure 1502 Male Sub without Nut

Description	Hose I.D.	L		C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)	(in)	(mm)	(in)	(mm)	(Lbs.)			
32GSM-32MHU	2.00	7.25	184.1	2.76	70.1	8.18	1	G23865-3232	7341-20325

2" Figure 1502 Rubber Lip Seal and Wing Nut

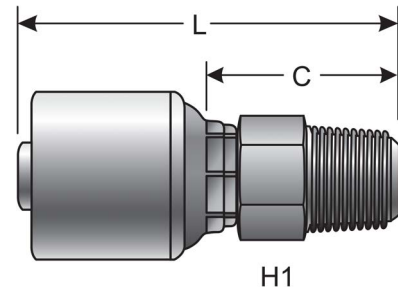
Description	Hose I.D.	Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)	(Lbs.)			
32 SR	2	.05	1	G23868-0032	7253-01905

GSM™ Butt Weld

Description	Hose I.D.	L		C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)	(in)	(mm)	(in)	(mm)	(Lbs.)			
40GSM-40XXSBW	2 1/2	9.65	245.1	2.64	67.0	11.07	1	G24860-4040	7341-20685
48GSM-48XXSBW	3	10.71	272	2.95	75.0	15.20	1	G24860-4848	7341-20725



Male Pipe (NPTF - 30° Cone Seat)



Description	Hose I.D. 	Thread	H1	L		C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(mm)	(in)	(mm)	(Lbs.)			
4G-2MP	1/4	1/8-27	1/2	1.96	49.8	0.95	24.1	.11	1	G25100-0402	7100-10025
4G-4MP	1/4	1/4-18	9/16	2.17	55.1	1.14	29.0	.13	1	G25100-0404	7100-10035
4G-6MP	1/4	3/8-18	11/16	2.17	55.1	1.14	29.0	.15	1	G25100-0406	7100-10045
4G-8MP	1/4	1/2-14	7/8	2.44	62.0	1.42	36.1	.22	1	G25100-0408	7100-10055
5G-4MP	5/16	1/4-18	5/8	2.28	57.9	1.18	30.0	.15	1	G25100-0504	7100-00065
5G-6MP	5/16	3/8-18	11/16	2.32	58.9	1.22	31.0	.17	1	G25100-0506	7100-10065
6G-4MP	3/8	1/4-18	5/8	2.32	58.9	1.22	31.0	.17	1	G25100-0604	7100-10075
6G-6MP	3/8	3/8-18	11/16	2.32	58.9	1.22	31.0	.18	1	G25100-0606	7100-10085
6G-8MP	3/8	1/2-14	7/8	2.51	63.8	1.42	36.1	.23	1	G25100-0608	7100-10095
8G-4MP	1/2	1/4-18	13/16	2.72	69.1	1.24	31.5	.26	1	G25100-0804	7100-10105
8G-6MP	1/2	3/8-18	13/16	2.72	69.1	1.24	31.5	.28	1	G25100-0806	7100-00105
8G-8MP	1/2	1/2-14	7/8	2.87	73.0	1.40	35.5	.27	1	G25100-0808	7100-00115
8G-12MP	1/2	3/4-14	1 1/16	2.95	74.9	1.48	37.5	.36	1	G25100-0812	7100-00125
10G-8MP	5/8	1/2-14	15/16	2.95	74.9	1.48	37.5	.35	1	G25100-1008	7100-00225
10G-12MP	5/8	3/4-14	1 1/16	2.95	74.9	1.48	37.5	.42	1	G25100-1012	7100-00235
12G-8MP	3/4	1/2-14	1 1/16	3.46	87.9	1.46	37.1	.55	1	G25100-1208	7100-00155
12G-12MP	3/4	3/4-14	1 1/16	3.46	87.9	1.46	37.1	.62	1	G25100-1212	7100-00165
12G-16MP	3/4	1-11 1/2	1 3/8	3.77	95.8	1.77	45.0	.70	1	G25100-1216	7100-00175
16G-12MP	1	3/4-14	1 3/8	3.93	99.8	1.70	43.2	1.11	1	G25100-1612	7100-00195
16G-16MP	1	1-11 1/2	1 3/8	4.11	104.4	1.88	47.7	1.05	1	G25100-1616	7100-00205
20G-20MP	1 1/4	1 1/4-11 1/2	1 3/4	4.44	112.8	2.13	54.1	1.52	1	G25100-2020	7100-00215

TECHNICAL DATA

AGRICULTURE

AIR BREATHING

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PROPER HOSE SELECTION

HOSE FINDER

TECHNICAL DATA

Male Pipe Long Nose

AGRICULTURE

AIR BREATHING

AIR DUCT

AIR & MULTI-PURPOSE

CHEMICAL

DATA CENTER

ENGINE & MARINE

FOOD & BEVERAGE

MATERIAL HANDLING

MINING

OILFIELD

PETROLEUM

PRESSURE WASH & WASHDOWN

STEAM

WATER

COUPLINGS & CLAMPS

CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

HOSE FINDER



Description	Hose I.D.	Thread	H1	L		C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(mm)	(in)	(mm)	(Lbs.)			
4G-4MPLN	1/4	1/4-18	9/16	2.56	65.0	1.54	39.1	.15	1	G25101-0404	7100-16615
4G-6MPLN	1/4	3/8-18	11/16	2.56	65.0	1.54	39.1	.16	1	G25101-0406	7100-16625
6G-4MPLN	3/8	1/4-18	5/8	2.72	69.1	1.62	41.1	.17	1	G25101-0604	7100-16645
6G-6MPLN	3/8	3/8-18	11/16	2.72	69.1	1.62	41.1	.20	1	G25101-0606	7100-16635

Male Pipe Swivel (NPTF - Without 30° Cone Seat)

**CAUTION:** NOT TO BE USED AS A LIVE SWIVEL.

Description	Hose I.D.	Thread	H1	H2	L		C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(in)	(mm)	(in)	(mm)	(Lbs.)			
4G-2MPX	1/4	1/8-27	1/2	1/2	2.39	60.7	1.37	34.8	.12	1	G25105-0402	7100-10245
4G-4MPX	1/4	1/4-18	1/2	11/16	2.61	66.3	1.58	40.2	.11	1	G25105-0404	7100-10255
4G-6MPX	1/4	3/8-18	5/8	7/8	2.73	69.3	1.71	43.5	.16	1	G25105-0406	7100-10265
6G-4MPX	3/8	1/4-18	5/8	7/8	2.87	73.0	1.77	45.0	.27	1	G25105-0604	7100-10285
6G-6MPX	3/8	3/8-18	5/8	7/8	2.81	71.4	1.72	43.6	.27	1	G25105-0606	7100-10295
6G-8MPX	3/8	1/2-14	3/4	1	3.04	77.2	1.95	49.5	.33	1	G25105-0608	7100-10305
8G-6MPX	1/2	3/8-18	13/16	7/8	3.22	81.8	1.76	44.6	.27	1	G25105-0806	7100-00315
8G-8MPX	1/2	1/2-14	13/16	1	3.42	86.9	1.95	49.4	.47	1	G25105-0808	7100-00325
10G-12MPX	5/8	3/4-14	1 1/16	1 5/16	3.48	88.4	2.01	51.1	.67	1	G25105-1012	7100-00335
12G-8MPX	3/4	1/2-14	1 1/16	1	3.97	100.8	1.97	49.9	.68	1	G25105-1208	7100-00345
12G-12MPX	3/4	3/4-14	1 1/16	1 5/16	4.01	101.9	2.01	51.1	.69	1	G25105-1212	7100-00355
16G-16MPX	1	1-11 1/2	1 3/8	1 5/8	4.73	120.1	2.50	63.5	1.25	1	G25105-1616	7100-00365



Male JIC 37° Flare



Description	Hose I.D.	Thread	H1	L		C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(mm)	(in)	(mm)	(Lbs.)			
4G-4MJ	1/4	7/16-20	35/64	2.19	55.5	1.16	29.5	.12	1	G25165-0404	7103-36045
4G-5MJ	1/4	1/2-20	35/64	2.19	55.5	1.16	29.5	.16	1	G25165-0405	7103-36055
4G-6MJ	1/4	9/16-18	43/64	2.22	56.4	1.20	30.5	.15	1	G25165-0406	7103-36065
5G-5MJ	5/16	1/2-20	43/64	2.26	57.5	1.16	29.5	.15	1	G25165-0505	7103-36105
5G-6MJ	5/16	9/16-18	43/64	2.26	57.5	1.16	29.5	.14	1	G25165-0506	7103-36115
6G-6MJ	3/8	9/16-18	43/64	2.30	58.4	1.21	30.6	.15	1	G25165-0606	7103-36155
6G-8MJ	3/8	3/4-16	3/4	2.48	63.0	1.38	35.1	.20	1	G25165-0608	7103-36165
6G-10MJ	3/8	7/8-14	61/64	2.64	67.1	1.54	39.1	.30	1	G25165-0610	7103-36175
8G-8MJ	1/2	3/4-16	7/8	2.82	71.5	1.34	34.0	.30	1	G25165-0808	7103-36215
8G-10MJ	1/2	7/8-14	61/64	2.91	74.0	1.44	36.5	.32	1	G25165-0810	7103-36225
8G-12MJ	1/2	1 1/16-12	1 1/16	3.19	81.0	1.71	43.5	.43	1	G25165-0812	7103-36235
10G-8MJ	5/8	3/4-16	1 1/16	2.93	74.5	1.46	37.1	.39	1	G25165-1008	7103-36265
10G-10MJ	5/8	7/8-14	1 1/16	3.03	77.0	1.56	39.5	.42	1	G25165-1010	7103-36275
10G-12MJ	5/8	1 1/16-12	1 1/16	3.19	81.0	1.71	43.5	.49	1	G25165-1012	7103-36285
12G-10MJ	3/4	7/8-14	1 1/16	3.68	93.5	1.67	42.5	.55	1	G25165-1210	7103-36315
12G-12MJ	3/4	1 1/16-12	1 1/16	3.72	94.5	1.71	43.5	.63	1	G25165-1212	7103-36325
12G-14MJ	3/4	1 3/16-12	1 17/64	3.76	95.5	1.75	44.5	.64	1	G25165-1214	7103-36335
12G-16MJ	3/4	1 5/16-12	1 27/64	3.78	96.0	1.77	45.0	.85	1	G25165-1216	7103-36345
16G-16MJ	1	1 5/16-12	1 27/64	4.11	104.5	1.88	47.7	1.06	1	G25165-1616	7103-36385
16G-20MJ	1	1 5/8-12	1 13/16	4.29	109.0	2.06	52.2	1.52	1	G25165-1620	7103-36395
20G-20MJ	1 1/4	1 5/8-12	1 13/16	4.43	112.5	2.11	53.5	1.61	1	G25165-2020	7103-36435
20G-24MJ	1 1/4	1 7/8-12	1 31/32	4.43	112.5	2.11	53.5	1.87	1	G25165-2024	7103-36445

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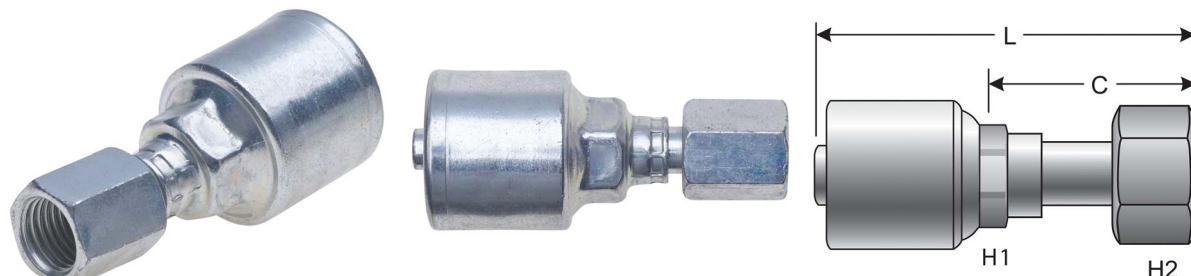
STEAM

WATER

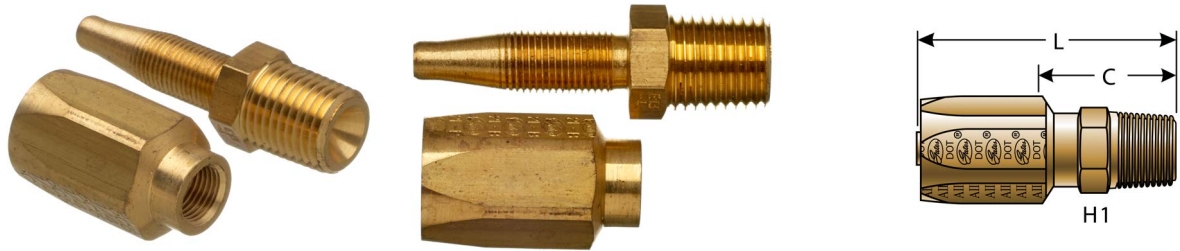
COUPLINGS &
CLAMPSCHEMICAL
RESISTANCE
TABLEPROPER HOSE
SELECTION

HOSE FINDER

Female JIC 37° Flare Swivel



Description	Hose I.D.	Thread	H1	H2	L		C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(in)	(mm)	(in)	(mm)	(Lbs.)			
4G-4FJX	1/4	7/16-20	19/32	35/64	2.20	55.9	1.23	31.3	.14	1	G25170-0404	7103-08045
4G-5FJX	1/4	1/2-20	19/32	43/64	2.30	58.4	1.27	32.3	.15	1	G25170-0405	7103-08055
4G-6FJX	1/4	9/16-18	19/32	3/4	2.35	59.6	1.32	33.6	.17	1	G25170-0406	7103-08065
5G-5FJX	5/16	1/2-20	43/64	43/64	2.45	62.1	1.34	34.0	.18	1	G25170-0505	7103-09095
5G-6FJX	5/16	9/16-18	43/64	3/4	2.50	63.5	1.40	35.6	.21	1	G25170-0506	7103-09105
6G-4FJXSP	3/8	7/16-20	43/64	35/64	2.30	58.4	1.20	30.5	.16	1	G25170-0604	7103-10125
6G-5FJXSP	3/8	1/2-20	43/64	43/64	2.27	57.7	1.17	29.8	.18	1	G25170-0605	7103-10135
6G-6FJX	3/8	9/16-18	45/64	3/4	2.42	61.5	1.29	32.7	.19	1	G25170-0606	7103-08145
6G-8FJX	3/8	3/4-16	45/64	61/64	2.63	66.7	1.49	37.9	.27	1	G25170-0608	7103-08155
6G-10FJX	3/8	7/8-14	45/64	1 1/16	2.76	70.1	1.62	41.2	.31	1	G25170-0610	7103-08165
6G-12FJX	3/8	1 1/16-12	43/64	1 17/64	2.91	74.0	1.81	46.0	.39	1	G25170-0612	7103-09175
8G-6FJXSP	1/2	9/16-18	7/8	3/4	2.67	67.8	1.19	30.3	.28	1	G25170-0806	7103-10195
8G-8FJX	1/2	3/4-16	7/8	61/64	2.88	73.2	1.50	38.1	.37	1	G25170-0808	7103-08205
8G-10FJX	1/2	7/8-14	7/8	1 1/16	3.01	76.5	1.63	41.3	.35	1	G25170-0810	7103-08215
8G-12FJX	1/2	1 1/16-12	7/8	1 17/64	3.06	77.7	1.67	42.4	.45	1	G25170-0812	7103-08225
8G-16FJX	1/2	1 5/16-12	7/8	1 39/64	3.52	89.3	2.04	51.8	.69	1	G25170-0816	7103-09235
10G-8FJXSP	5/8	3/4-16	61/64	61/64	2.90	73.7	1.42	36.1	.36	1	G25170-1008	7103-10255
10G-10FJX	5/8	7/8-14	61/64	1 1/16	3.14	79.7	1.66	42.2	.37	1	G25170-1010	7103-08265
10G-12FJX	5/8	1 1/16-12	61/64	1 17/64	3.21	81.4	1.73	43.9	.47	1	G25170-1012	7103-08275
10G-14FJX	5/8	1 3/16-12	61/64	1 27/64	3.39	86.1	1.91	48.6	.61	1	G25170-1014	7103-08285
12G-8FJXSP	3/4	3/4-16	1 1/16	61/64	3.51	89.1	1.50	38.1	.57	1	G25170-1208	7103-10305
12G-10FJXSP	3/4	7/8-14	1 1/16	1 1/16	3.51	89.2	1.50	38.1	.53	1	G25170-1210	7103-10315
12G-12FJX	3/4	1 1/16-12	1 3/16	1 17/64	3.74	95.0	1.73	44.0	.67	1	G25170-1212	7103-08325
12G-14FJX	3/4	1 3/16-12	1 3/16	1 27/64	3.82	97.0	1.81	46.0	.82	1	G25170-1214	7103-08335
12G-16FJX	3/4	1 5/16-12	1 3/16	1 39/64	3.85	97.9	1.85	47.0	.85	1	G25170-1216	7103-08345
16G-12FJXSP	1	1 1/16-12	1 27/64	1 17/64	4.02	102.1	1.78	45.2	1.04	1	G25170-1612	7103-10375
16G-16FJX	1	1 5/16-12	1 27/64	1 39/64	4.24	107.8	2.01	51.1	1.21	1	G25170-1616	7103-08395
16G-20FJX	1	1 5/8-12	1 27/64	1 31/32	4.54	115.3	2.30	58.5	1.35	1	G25170-1620	7103-08405
20G-20FJX	1 1/4	1 5/8-12	1 39/64	1 31/32	4.42	112.3	2.10	53.3	1.73	1	G25170-2020	7103-08435
20G-24FJX	1 1/4	1 7/8-12	1 39/64	2 23/64	4.86	123.4	2.54	64.4	2.24	1	G25170-2024	7103-08445
6G-4FJX	3/8	7/16-20	5/8	35/64	2.94	74.7	1.84	46.8	.21	1	G25171-0604	7103-09135
6G-5FJX	3/8	1/2-20	43/64	43/64	2.96	75.2	1.86	47.3	.20	1	G25171-0605	7103-09125
8G-6FJX	1/2	9/16-18	7/8	3/4	3.81	96.7	2.33	59.2	.36	1	G25171-0806	7103-09195
10G-8FJX	5/8	3/4-16	61/64	61/64	4.06	103.1	2.58	65.5	.44	1	G25171-1008	7103-09255
12G-10FJX	3/4	7/8-14	1 1/16	1 1/16	4.80	121.9	3.30	83.7	.70	1	G25171-1210	7103-09315
16G-12FJX	1	1 1/16-12	1 27/64	1 17/64	5.87	149.1	3.64	92.4	.96	1	G25171-1612	7103-09375
16G-14FJX	1	1 3/16-12	1 27/64	1 27/64	6.32	160.4	4.08	103.6	1.36	1	G25171-1614	7103-09385

**Male Pipe (NPTF - 30° Cone Seat) - Brass**

Description	Hose I.D. 	Thread	H1	L		C		Wt. Per ea (Lbs.)	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(mm)	(in)	(mm)				
6C5-6RMPB	5/16	3/8-18	11/16	2.17	55.1	1.22	31.0	.18	1	G34100-0606B	7236-03015
8C5-8RMPB	13/32	1/2-14	7/8	2.71	68.8	1.59	40.4	.29	1	G34100-0808B	7236-03085
10C5-8RMPB	1/2	1/2-14	7/8	2.88	73.2	1.59	40.4	.39	1	G34100-1008B	7236-03035
16C5-16RMPB	7/8	1-11 1/2	1 3/8	2.91	74.0	1.72	43.7	.71	1	G34100-1616B	7236-03065

Male Pipe (NPTF - 30° Cone Seat) - Steel

Description	Hose I.D. 	Thread	H1	L		C		Wt. Per ea (Lbs.)	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(mm)	(in)	(mm)				
4C5-2RMP	3/16	1/8-27	1/2	1.64	41.7	0.94	23.9	.08	1	G34100-0402	7236-04015
4C5-4RMP	3/16	1/4-18	9/16	1.83	46.5	1.13	28.7	.11	1	G34100-0404	7236-04025
5C5X-2RMP	1/4	1/8-27	1/2	1.77	45.0	1.02	25.8	.10	1	G34100-0502	7237-00145
5C5X-4RMP	1/4	1/4-18	9/16	1.96	49.8	1.19	30.3	.10	1	G34100-0504	7237-00155
6C5-4RMP	5/16	1/4-18	9/16	2.17	55.1	1.22	31.0	.15	1	G34100-0604	7236-04055
6C5-6RMP	5/16	3/8-18	11/16	2.17	55.1	1.22	31.0	.14	1	G34100-0606	7236-04275
8C5X-6RMP	13/32	3/8-18	11/16	2.46	62.5	1.34	34.0	.20	1	G34100-0806	7237-00195
8C5X-8RMP	13/32	1/2-14	7/8	2.71	68.8	1.60	40.7	.32	1	G34100-0808	7237-00205
10C5-8RMP	1/2	1/2-14	1 1/16	2.88	73.2	1.59	40.4	.38	1	G34100-1008	7236-04085
10C5-12RMP	1/2	3/4-14	1	2.95	74.9	1.66	42.2	.48	1	G34100-1012	7236-04095
12C5X-8RMP	5/8	1/2-14	7/8	3.15	80.0	1.74	44.3	.41	1	G34100-1208	7237-00235
12C5X-12RMP	5/8	3/4-14	1 1/16	3.25	82.6	1.74	44.3	.51	1	G34100-1212	7237-00245
16C5-12RMP	7/8	3/4-14	1 1/8	2.71	68.8	1.53	38.9	.60	1	G34100-1612	7236-86412
16C5-16RMP	7/8	1-11 1/2	1 3/8	2.90	73.7	1.72	43.7	.73	1	G34100-1616	7236-86413
20C5-20RMP	1 1/8	1 1/4-11 1/2	1 11/16	3.25	82.6	1.88	47.8	1.15	1	G34100-2020	7236-86428
24C5-24RMP	1 3/8	1 1/2-11 1/2	2	3.45	87.6	2.03	51.6	1.56	1	G34100-2424	7236-86388
32C5-32RMP	1 13/16	2-11 1/2	2 1/2	4.07	103.4	2.22	56.4	2.30	1	G34100-3232	7236-86389

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PROPER HOSE SELECTION

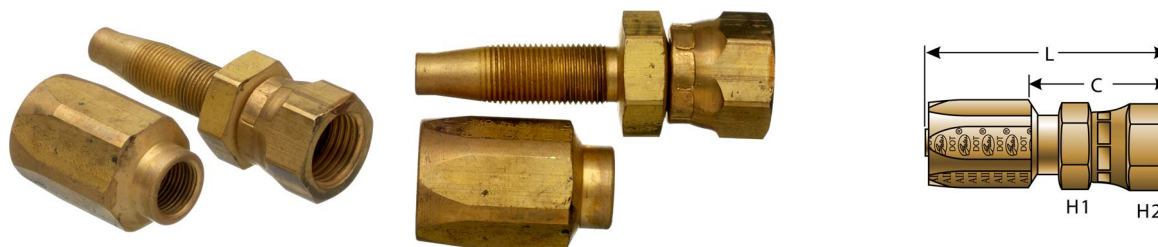
HOSE FINDER

Male JIC 37° Flare - Steel



Description	Hose I.D.	Thread	H1	L		C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(mm)	(in)	(mm)	(Lbs.)			
4C5-4RMJ	3/16	7/16-20	1/2	1.79	45.5	1.09	27.7	.08	1	G34165-0404	7236-86431
6C5-6RMJ	5/16	9/16-18	9/16	2.17	55.1	1.22	31.0	.15	1	G34165-0606	7236-86433
8C5X-8RMJ	13/32	3/4-16	3/4	2.56	65.0	1.44	36.7	.26	1	G34165-0808	7237-00675
10C5-10RMJ	1/2	7/8-14	7/8	2.88	73.2	1.59	40.4	.37	1	G34165-1010	7236-86435
12C5X-12RMJ	5/8	1 1/16-12	1 1/16	3.34	84.8	1.78	45.3	.52	1	G34165-1212	7237-00695
16C5-16RMJ	7/8	1 5/16-12	1 5/16	2.87	73.0	1.69	42.9	.67	1	G34165-1616	7236-86437

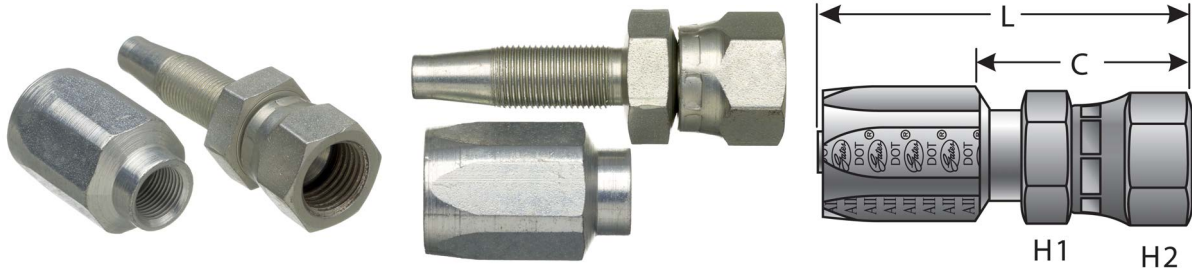
Female JIC 37° Flare Swivel - Brass



Description	Hose I.D.	Thread	H1	H2	L		C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(in)	(mm)	(in)	(mm)	(Lbs.)			
6C5-6RFJXB	5/16	9/16-18	3/4	3/4	2.39	60.7	1.44	36.6	.18	1	G34170-0606B	7238-04075
12C5-12RFJXB	5/8	1 1/16-12	1 1/4	1 1/4	3.50	88.9	1.94	49.3	.68	1	G34170-1212B	7238-04085
16C5-16RFJXB	7/8	1 5/16-12	1 1/2	1 1/2	3.12	79.3	1.94	49.3	.80	1	G34170-1616B	7238-04095

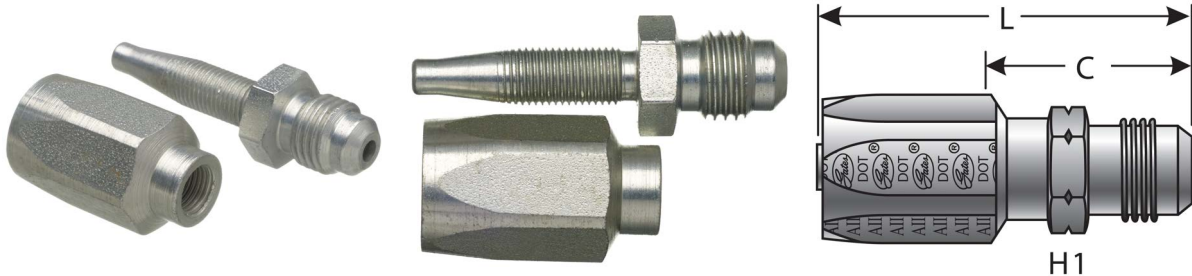


Female JIC 37° Flare Swivel - Steel



Description	Hose I.D.	Thread	H1	H2	L		C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(in)	(mm)	(in)	(mm)	(Lbs.)			
6C5-6RFJX	5/16	9/16-18	3/4	3/4	2.39	60.7	1.44	36.6	.17	1	G34170-0606	7238-86443
8C5X-6RFJX	13/32	9/16-18	3/4	3/4	2.66	67.6	1.56	39.5	.23	1	G34170-0806	7237-00415
10C5-12RFJX	1/2	1 1/16-12	1 1/4	1 1/4	3.22	81.8	1.93	49.0	.23	1	G34170-1012	7238-04325
12C5X-12RFJX	5/8	1 1/16-12	1 1/4	1 1/4	3.50	88.9	1.98	50.4	.48	1	G34170-1212	7237-00455
16C5-16RFJX	7/8	1 5/16-12	1 1/2	1 1/2	3.12	79.3	1.94	49.3	.75	1	G34170-1616	7238-86447
20C5-20RFJX	1 1/8	1 5/8-12	2	2	3.56	90.4	2.19	55.6	1.55	1	G34170-2020	7238-86394
24C5-24RFJX	1 3/8	1 7/8-12	2 1/4	2 1/4	3.79	96.3	2.37	60.2	1.85	1	G34170-2424	7238-86395
32C5-32RFJX	1 13/16	2 1/2-12	2 1/2	2 7/8	4.99	126.8	2.72	69.1	2.74	1	G34170-3232	7238-86396

Male SAE 45° Flare - Steel



Description	Hose I.D.	Thread	H1	L		C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(mm)	(in)	(mm)	(Lbs.)			
4C5-4RMS	3/16	7/16-20	1/2	1.76	44.7	1.06	26.9	.08	1	G34195-0404	7236-86414
5C5X-5RMS	1/4	1/2-20	1/2	1.96	49.8	1.19	30.3	.10	1	G34195-0505	7237-00725
6C5-6RMS	5/16	5/8-18	5/8	2.23	56.6	1.28	32.5	.15	1	G34195-0606	7236-86416
10C5-10RMS	1/2	7/8-14	7/8	3.01	76.5	1.72	43.7	.40	1	G34195-1010	7236-86418
12C5X-12RMS	5/8	1 1/16-14	1 1/16	3.50	88.9	1.94	49.3	.60	1	G34195-1212	7237-00765

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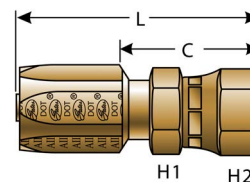
COUPLINGS & CLAMPS

CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

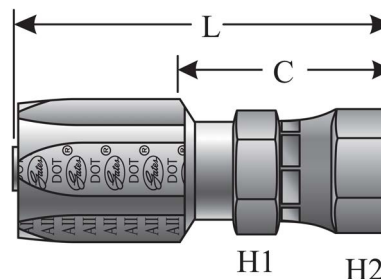
HOSE FINDER

Dual Seat Female JIC 37°/SAE 45° Flare Swivel - Brass



Description	Hose I.D. 	Thread	H1	H2	L		C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(in)	(mm)	(in)	(mm)	(Lbs.)			
5C5-5RFJSXB	1/4	1/2-20	11/16	11/16	2.11	53.6	1.34	34.0	.15	1	G34210-0505B	7238-04005
8C5-8RFJSXB	13/32	3/4-16	7/8	7/8	2.75	69.9	1.63	41.4	.32	1	G34210-0808B	7238-04015
10C5-10RFJSXB	1/2	7/8-14	1 1/16	1 1/16	3.10	78.7	1.81	46.0	.44	1	G34210-1010B	7238-04025

Dual Seat Female JIC 37°/SAE 45° Flare Swivel - Steel



Description	Hose I.D. 	Thread	H1	H2	L		C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(in)	(mm)	(in)	(mm)	(Lbs.)			
4C5-4RFJSX	3/16	7/16-20	9/16	9/16	1.92	48.8	1.22	31.0	.20	1	G34210-0404	7238-04215
5C5X-4RFJSX	1/4	7/16-20	9/16	9/16	2.05	52.1	1.29	32.8	.10	1	G34210-0504	7237-00875
5C5X-5RFJSX	1/4	1/2-20	11/16	11/16	2.11	53.6	1.34	34.0	.14	1	G34210-0505	7237-00885
6C5-8RFJSX	5/16	3/4-16	7/8	7/8	2.48	63.0	1.53	38.9	.25	1	G34210-0608	7238-04295
8C5X-8RFJSX	13/32	3/4-16	7/8	7/8	2.75	69.9	1.67	42.3	.13	1	G34210-0808	7237-00905
10C5-8RFJSX	1/2	3/4-16	7/8	7/8	2.93	74.4	1.64	41.7	.35	1	G34210-1008	7238-04315
10C5-10RFJSX	1/2	7/8-14	1 1/16	1 1/16	3.10	78.7	1.81	46.0	.44	1	G34210-1010	7238-04255

COUPLINGS & CLAMPS

CHEMICAL RESISTANCE TABLE

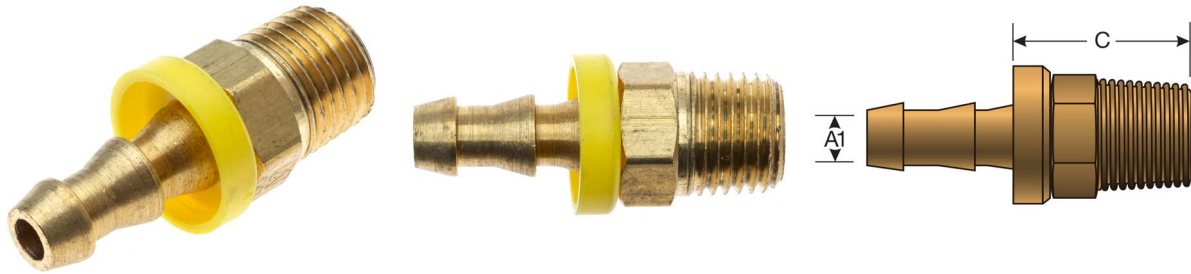
PROPER HOSE SELECTION

HOSE FINDER



BRASS FIELD ATTACHABLE COUPLINGS

Male Pipe with Cone Seat



Description	A1		T1 Thread	C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)	(mm)	(in)	(in)	(mm)	(Lbs.)			
4LOC-2RMP	1/4	6.4	1/8-27	0.56	14.2	.04	1	G36100-0402	7250-04435
4LOC-4RMP	1/4	6.4	1/4-18	0.81	20.6	.04	1	G36100-0404	7250-04445
4LOC-6RMP	1/4	6.4	3/8-18	0.88	22.4	.05	1	G36100-0406	7250-16065
5LOC-2RMP	5/16	7.9	1/8-27	0.81	20.6	.04	1	G36100-0502	7250-04455
5LOC-4RMP	5/16	7.9	1/4-18	0.77	19.6	.06	1	G36100-0504	7250-04465
6LOC-2RMP	3/8	9.5	1/8-27	0.56	14.2	.06	1	G36100-0602	7250-04475
6LOC-4RMP	3/8	9.5	1/4-18	0.81	20.6	.06	1	G36100-0604	7250-04485
6LOC-6RMP	3/8	9.5	3/8-18	0.88	22.4	.10	1	G36100-0606	7250-04495
6LOC-8RMP	3/8	9.5	1/2-14	0.88	22.4	.01	1	G36100-0608	7250-16075
8LOC-4RMP	1/2	12.7	1/4-18	0.81	20.6	.10	1	G36100-0804	7250-16085
8LOC-6RMP	1/2	12.7	3/8-18	0.88	22.4	.08	1	G36100-0806	7250-04505
8LOC-8RMP	1/2	12.7	1/2-14	0.88	22.4	.14	1	G36100-0808	7250-04515
8LOC-12RMP	1/2	12.7	3/4-14	1.13	28.7	.16	1	G36100-0812	7250-16095
10LOC-6RMP	5/8	15.9	3/8-18	0.88	22.4	.20	1	G36100-1006	7250-16105
10LOC-8RMP	5/8	15.9	1/2-14	1.06	26.9	.14	1	G36100-1008	7250-04525
10LOC-12RMP	5/8	15.9	3/4-14	0.88	22.4	.20	1	G36100-1012	7250-16115
12LOC-8RMP	3/4	19.1	1/2-14	0.88	22.4	.20	1	G36100-1208	7250-16125
12LOC-12RMP	3/4	19.1	3/4-14	1.13	28.7	.20	1	G36100-1212	7250-04535

Male Pipe Swivel without Cone Seat



Description	A1		T1 Thread	C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)	(mm)	(in)	(in)	(mm)	(Lbs.)			
4LOC-4RMPX	1/4	6.4	1/4-18	1.81	46	.05	1	G36105-0404	7250-16135
6LOC-6RMPX	3/8	9.5	3/8-18	2.00	50.8	.06	1	G36105-0606	7250-16145
8LOC-8RMPX	1/2	12.7	1/2-14	2.38	60.5	.15	1	G36105-0808	7250-16155
12LOC-12RMPX	3/4	19.1	3/4-14	2.68	68.1	.25	1	G36105-1212	7250-16165

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CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

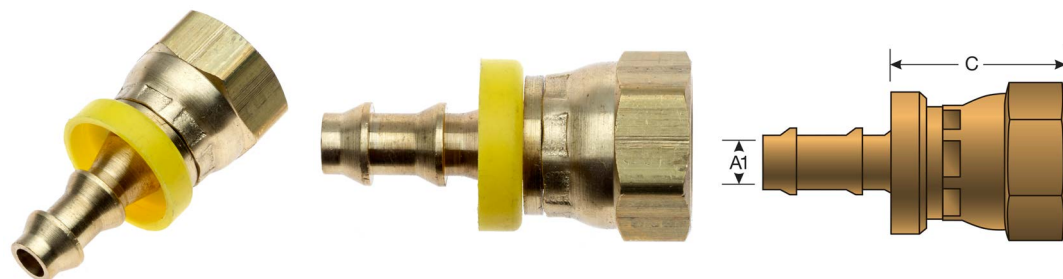
HOSE FINDER

Female Pipe without Cone Seat



Description	A1		T1 Thread	C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)	(mm)	(in)	(in)	(mm)	(Lbs.)			
4LOC-4RFP	1/4	6.4	1/4-18	0.50	12.7	.06	1	G361110-0404	7250-04595
5LOC-4RFP	5/16	7.9	1/4-18	0.50	12.7	.05	1	G361110-0504	7250-16225
6LOC-6RFP	3/8	9.5	3/8-18	0.63	16.0	.08	1	G361110-0606	7250-04605
8LOC-6RFP	1/2	12.7	3/8-18	0.63	16.0	.05	1	G361110-0806	7250-16235
8LOC-8RFP	1/2	12.7	1/2-14	0.75	19.1	.12	1	G361110-0808	7250-04615
10LOC-8RFP	5/8	15.9	1/2-14	0.75	19.1	.12	1	G361110-1008	7250-16245
12LOC-12RFP	3/4	19.1	3/4-14	0.93	23.6	.24	1	G361110-1212	7250-16255

Female Pipe Swivel with Cone Seat



Description	A1		T1 Thread	C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)	(mm)	(in)	(in)	(mm)	(Lbs.)			
4LOC-2RFPX	1/4	6.4	1/8-27	1.81	46	.04	1	G361111-0402	7250-16265
4LOC-4RFPX	1/4	6.4	1/4-18	1.81	46	.06	1	G361111-0404	7250-16275
4LOC-6RFPX	1/4	6.4	3/8-18	2.00	50.8	.08	1	G361111-0406	7250-16285
6LOC-4RFPX	3/8	9.5	1/4-18	1.81	46	.08	1	G361111-0604	7250-16295
6LOC-6RFPX	3/8	9.5	3/8-18	2.00	50.8	.10	1	G361111-0606	7250-16305
6LOC-8RFPX	3/8	9.5	1/2-14	2.38	60.5	.10	1	G361111-0608	7250-16315
8LOC-8RFPX	1/2	12.7	1/2-14	2.38	60.5	.12	1	G361111-0808	7250-16325
8LOC-12RFPX	1/2	12.7	3/4-14	2.68	68.1	.18	1	G361111-0812	7250-16335
10LOC-12RFPX	5/8	15.9	3/4-14	2.68	68.1	.26	1	G361111-1012	7250-16345
12LOC-12RFPX	3/4	19.1	3/4-14	2.68	68.1	.20	1	G361111-1212	7250-16355



BRASS FIELD ATTACHABLE COUPLINGS

Male JIC 37° Flare



Description	A1		T1 Thread	C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)	(mm)	(in)	(in)	(mm)	(Lbs.)			
4LOC-4RMJ	1/4	6.4	7/16-20	0.81	20.6	.05	1	G36165-0404	7250-16365
4LOC-5RMJ	1/4	6.4	1/2-20	0.94	23.9	.04	1	G36165-0405	7250-16375
4LOC-6RMJ	1/4	6.4	9/16-18	1.00	25.4	.06	1	G36165-0406	7250-16385
6LOC-4RMJ	3/8	9.5	7/16-20	0.88	22.4	.05	1	G36165-0604	7250-16395
6LOC-5RMJ	3/8	9.5	1/2-20	0.94	23.9	.06	1	G36165-0605	7250-16405
6LOC-6RMJ	3/8	9.5	9/16-18	1.00	25.4	.05	1	G36165-0606	7250-16415
6LOC-8RMJ	3/8	9.5	3/4-16	1.19	30.2	.15	1	G36165-0608	7250-16425
8LOC-8RMJ	1/2	12.7	3/4-16	1.19	30.2	.12	1	G36165-0808	7250-16435
8LOC-10RMJ	1/2	12.7	7/8-14	1.27	32.3	.18	1	G36165-0810	7250-16445
10LOC-8RMJ	5/8	15.9	3/4-16	1.19	30.2	.18	1	G36165-1008	7250-16455
10LOC-10RMJ	5/8	15.9	7/8-14	1.27	32.3	.18	1	G36165-1010	7250-16465
12LOC-10RMJ	3/4	19.1	7/8-14	1.27	32.3	.26	1	G36165-1210	7250-16475
12LOC-12RMJ	3/4	19.1	1 1/16-12	1.33	33.8	.30	1	G36165-1212	7250-16485

Female JIC 37° Flare Swivel



Description	A1		T1 Thread	C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)	(mm)	(in)	(in)	(mm)	(Lbs.)			
4LOC-6RFJX	1/4	6.4	9/16-18	0.74	18.8	.05	1	G36170-0406	7250-16495
6LOC-6RFJX	3/8	9.5	9/16-18	0.81	20.6	.06	1	G36170-0606	7250-04625
12LOC-12RFJX	3/4	19.1	1 1/16-12	1.09	27.7	.22	1	G36170-1212	7250-04635

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PROPER HOSE SELECTION

HOSE FINDER

Male SAE 45° Flare



Description	A1		T1 Thread	C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)	(mm)	(in)	(in)	(mm)	(Lbs.)			
4LOC-4RMS	1/4	6.4	7/16-20	0.69	17.5	.04	1	G36195-0404	7250-04645
4LOC-5RMS	1/4	6.4	1/2-20	0.38	9.7	.04	1	G36195-0405	7250-04655
4LOC-6RMS	1/4	6.4	5/8-18	0.88	22.4	.06	1	G36195-0406	7250-04665
5LOC-5RMS	5/16	7.9	1/2-20	0.81	20.6	.06	1	G36195-0505	7250-04675
6LOC-4RMS	3/8	9.5	7/16-20	0.69	17.5	.06	1	G36195-0604	7250-16505
6LOC-5RMS	3/8	9.5	1/2-20	0.81	20.6	.06	1	G36195-0605	7250-16515
6LOC-6RMS	3/8	9.5	5/8-18	0.88	22.4	.08	1	G36195-0606	7250-04685
6LOC-8RMS	3/8	9.5	3/4-16	1.31	33.3	.15	1	G36195-0608	7250-16525
8LOC-8RMS	1/2	12.7	3/4-16	1.13	28.7	.12	1	G36195-0808	7250-18285
8LOC-10RMS	1/2	12.7	7/8-14	1.27	32.3	.18	1	G36195-0810	7250-16535
10LOC-8RMS	5/8	15.9	3/4-16	1.13	28.7	.20	1	G36195-1008	7250-16545
10LOC-10RMS	5/8	15.9	7/8-14	1.27	32.3	.18	1	G36195-1010	7250-16555
12LOC-12RMS	3/4	19.1	1 1/16-14	1.83	46.5	.32	1	G36195-1212	7250-16575

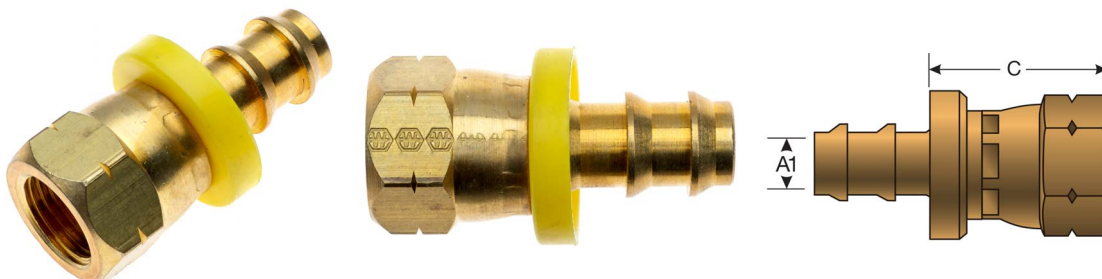
Female SAE 45° Flare Swivel



Description	A1		T1 Thread	C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)	(mm)	(in)	(in)	(mm)	(Lbs.)			
4LOC-6RFSX	1/4	6.4	5/8-18	0.69	17.5	.06	1	G36200-0406	7250-16585
5LOC-6RFSX	5/16	7.9	5/8-18	0.81	20.6	.07	1	G36200-0506	7250-18295
6LOC-6RFSX	3/8	9.5	5/8-18	0.84	21.3	.08	1	G36200-0606	7250-04695
8LOC-6RFSX	1/2	12.7	5/8-18	0.84	21.3	.12	1	G36200-0806	7250-16595
12LOC-12RFSX	3/4	19.1	1 1/16-14	1.09	27.7	.22	1	G36200-1212	7250-04705



Dual Seat Female JIC 37°/SAE 45° Flare Swivel



Description	A1		T1 Thread	C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)	(mm)	(in)	(in)	(mm)	(Lbs.)			
4LOC-4RFJSX	1/4	6.4	7/16-20	0.75	19.1	.04	1	G36210-0404	7250-04715
4LOC-5RFJSX	1/4	6.4	1/2-20	0.78	19.8	.04	1	G36210-0405	7250-04725
5LOC-5RFJSX	5/16	7.9	1/2-20	0.81	20.6	.04	1	G36210-0505	7250-04735
6LOC-5RFJSX	3/8	9.5	1/2-20	0.81	20.6	.06	1	G36210-0605	7250-04745
6LOC-8RFJSX	3/8	9.5	3/4-16	0.97	24.6	.13	1	G36210-0608	7250-18305
8LOC-8RFJSX	1/2	12.7	3/4-16	0.97	24.6	.25	1	G36210-0808	7250-04755
8LOC-10RFJSX	1/2	12.7	7/8-14	1.00	25.4	.13	1	G36210-0810	7250-18315
10LOC-10RFJSX	5/8	15.9	7/8-14	1.00	25.4	.30	1	G36210-1010	7250-04765
12LOC-10RFJSX	3/4	19.1	7/8-14	1.00	25.4	.20	1	G36210-1210	7250-04775

TECHNICAL DATA

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CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

HOSE FINDER

TECHNICAL DATA

Male Pipe (NPTF - 30° Cone Seat)



Description	Hose I.D. 	Thread	H1	L		C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(mm)	(in)	(mm)	(Lbs.)			
10GLP1-8MP	5/8	1/2-14	15/16	2.40	61.0	1.55	39.3	.22	1	G42100-1008	7351-02275

Female JIC 37° Flare Swivel



Description	Hose I.D. 	Thread	H2	L		C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(mm)	(in)	(mm)	(Lbs.)			
6GLP1-6FJX	3/8	9/16-18	7/16	1.89	48.0	1.10	27.9	.11	1	G42170-0606	7351-05145
8GLP1-8FJX	1/2	3/4-16	9/32	2.02	51.3	1.24	31.5	.18	1	G42170-0808	7351-05205

AGRICULTURE

AIR BREATHING

AIR DUCT

AIR & MULTI-PURPOSE

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STEAM

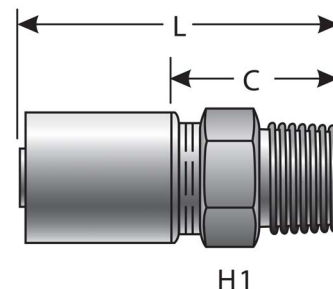
WATER

COUPLINGS & CLAMPS

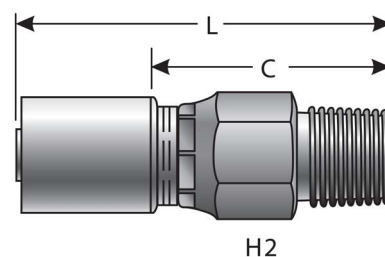
CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

HOSE FINDER

**Male Pipe (NPTF - 30° Cone Seat)**

Description	Hose I.D. 	Thread	H1	L		C		Wt. Per ea (Lbs.)	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(mm)	(in)	(mm)				
12GL-12MP	3/4	3/4-14	1 3/4	3.46	87.9	1.46	37.1	.51	1	G43100-1212	7348-00015
16GL-16MP	1	1-11 1/2	1 3/8	4.11	104.4	1.88	47.7	.69	1	G43100-1616	7348-00035
20GL-20MP	1 1/4	1 1/4-11 1/2	1 3/4	2.13	54.1	2.13	54.1	.78	1	G43100-2020	7348-00045
24GL-24MP	1 1/2	1 1/2-11 1/2	2	4.83	122.7	2.19	55.7	1.78	1	G43100-2424	7348-00055
32GL-32MP	2	2-11 1/2	2 1/2	5.39	136.9	2.33	59.2	3.04	1	G43100-3232	7348-00065

Male Pipe Swivel (NPTF - Without 30° Cone Seat)

CAUTION: NOT TO BE USED AS A LIVE SWIVEL.

Description	Hose I.D. 	Thread	H2	L		C		Wt. Per ea (Lbs.)	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(mm)	(in)	(mm)				
16GL-16MPX	1	1-11 1/2	1 5/8	4.73	120.1	2.50	63.5	.93	1	G43105-1616	7348-00115

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HOSE FINDER

Female JIC 37° Flare Swivel



Description	Hose I.D.	Thread	H1	H2	L		C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(in)	(mm)	(in)	(mm)	(Lbs.)			
12GL-12FJX	3/4	1 1/16-12	1 1/16	1 1/4	3.68	93.5	1.67	42.5	.40	1	G43170-1212	7348-00205
12GL-16FJX	3/4	1 5/16-12	1 1/4	1 1/2	3.78	96.0	1.77	45.0	.48	1	G43170-1216	7348-00225
16GL-16FJX	1	1 5/16-12	1 3/8	1 1/2	4.17	105.9	1.94	49.2	.24	1	G43170-1616	7348-00235
20GL-16FJX	1 1/4	1 5/16-12	1 3/4	1 1/2	4.49	114.0	2.15	54.5	1.32	1	G43170-2016	7348-00175
20GL-20FJX	1 1/4	1 5/8-12	1 3/4	2	4.58	116.3	2.26	57.4	1.32	1	G43170-2020	7348-00245
24GL-20FJX	1 1/2	1 5/8-12	1 3/4	2	4.84	122.9	2.20	55.9	1.82	1	G43170-2420	7348-00195
24GL-24FJX	1 1/2	1 7/8-12	2	2 1/4	5.19	131.8	2.55	64.7	2.20	1	G43170-2424	7348-00255
32GL-32FJX	2	2 1/2-12	2 1/2	2 7/8	5.98	151.9	2.92	74.2	3.50	1	G43170-3232	7348-00265
40GL-40FJX	2 1/2	3-12	3	3 1/2	5.36	136.1	2.91	73.9	4.48	1	G43170-4040	7305-05475

**Male Pipe (NPTF - 30° Cone Seat)**

Description	Hose I.D. 	Thread	H1	L		C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(mm)	(in)	(mm)	(Lbs.)			
4GLX-2MP	1/4	1/8-27	1/2	2.01	51.0	0.98	25.0	.10	1	G44100-0402	7107-00105
4GLX-4MP	1/4	1/4-18	9/16	2.17	55.1	1.14	29.0	.12	1	G44100-0404	7107-00115
6GLX-4MP	3/8	1/4-18	11/16	2.32	58.9	1.22	31.0	.15	1	G44100-0604	7107-00135
6GLX-6MP	3/8	3/8-18	11/16	2.32	58.9	1.22	31.0	.17	1	G44100-0606	7107-00145
8GLX-6MP	1/2	3/8-18	13/16	2.72	69.1	1.24	31.5	.05	1	G44100-0806	7107-00165
8GLX-8MP	1/2	1/2-14	7/8	2.78	70.6	1.40	35.5	.30	1	G44100-0808	7107-00175
8GLX-12MP	1/2	3/4-14	13/16	3.46	87.9	1.48	37.5	.35	1	G44100-0812	7107-00785
10GLX-8MP	5/8	1/2-14	15/16	2.40	61.0	1.56	39.6	.22	1	G44100-1008	7107-00195
12GLX-8MP	3/4	1/2-14	1 1/16	3.46	87.9	1.46	37.1	.45	1	G44100-1208	7107-00215
12GLX-12MP	3/4	3/4-14	1 1/16	3.46	87.9	1.46	37.1	.45	1	G44100-1212	7107-00225
16GLX-16MP	1	1-11 1/2	1 3/8	4.11	104.4	1.88	47.7	.80	1	G44100-1616	7107-00255
20GLX-20MP	1 1/4	1 1/4-11 1/2	1 3/4	4.41	112.0	2.13	54.1	1.20	1	G44100-2020	7107-00265

Male Pipe Swivel (NPTF - Without 30° Cone Seat)

Description	Hose I.D. 	Thread	H1	H2	L		C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(in)	(mm)	(in)	(mm)	(Lbs.)			
4GLX-4MPX	1/4	1/4-18	1/2	11/16	2.61	66.3	1.58	40.2	.15	1	G44105-0404	7107-00565
6GLX-6MPX	3/8	3/8-18	5/8	7/8	2.81	71.4	1.72	43.6	.25	1	G44105-0606	7107-00575
8GLX-8MPX	1/2	1/2-14	13/16	1	3.42	86.9	1.95	49.5	.37	1	G44105-0808	7107-00585
12GLX-12MPX	3/4	3/4-14	1 1/16	1 5/16	4.02	102.1	2.01	51.1	.59	1	G44105-1212	7107-00595
16GLX-16MPX	1	1-11 1/2	1 3/8	1 5/8	4.73	120.1	2.50	63.5	.97	1	G44105-1616	7107-00605
20GLX-20MPX	1 1/4	1 1/4-11 1/2	1 7/8	2	5.30	134.6	2.98	75.7	1.78	1	G44105-2020	7107-00615

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PROPER HOSE SELECTION

HOSE FINDER

Female Pipe (NPTF - Without 30° Cone Seat)



H1

Description	Hose I.D.	Thread	H1	L		C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(mm)	(in)	(mm)	(Lbs.)			
4GLX-4FP	1/4	1/4-18	11/16	1.99	50.6	0.97	24.5	.11	1	G44110-0404	7107-00415
6GLX-4FP	3/8	1/4-18	11/16	2.07	52.6	0.97	24.6	.15	1	G44110-0604	7107-00425
6GLX-6FP	3/8	3/8-18	13/16	2.07	52.6	0.97	24.6	.18	1	G44110-0606	7107-00435
8GLX-6FP	1/2	3/8-18	13/16	2.48	63.0	1.00	25.5	.24	1	G44110-0806	7107-00445
8GLX-8FP	1/2	1/2-14	1	2.64	67.1	1.16	29.5	.26	1	G44110-0808	7107-00455
12GLX-12FP	3/4	3/4-14	1 1/4	3.23	82.0	1.22	31.0	.48	1	G44110-1212	7107-00465
16GLX-16FP	1	1-11 1/2	1 1/2	3.86	98.0	1.62	41.2	.73	1	G44110-1616	7107-00475

Female Pipe Swivel (NPSM - 30° Cone Seat)



H1

H2

Description	Hose I.D.	Thread	H1	H2	L		C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(in)	(mm)	(in)	(mm)	(Lbs.)			
4GLX-4FPX	1/4	1/4-18	1/2	11/16	2.24	56.9	1.22	31.0	.12	1	G44111-0404	7107-00345
6GLX-4FPX	3/8	1/4-18	5/8	11/16	2.40	61.0	1.30	33.0	.16	1	G44111-0604	7107-00355
6GLX-6FPX	3/8	3/8-18	5/8	7/8	2.49	63.3	1.39	35.3	.22	1	G44111-0606	7107-00365
8GLX-6FPX	1/2	3/8-18	13/16	7/8	2.85	72.4	1.38	35.1	.30	1	G44111-0806	7107-00375
8GLX-8FPX	1/2	1/2-14	13/16	1	2.89	73.4	1.41	35.9	.30	1	G44111-0808	7107-00385
12GLX-12FPX	3/4	3/4-14	1 1/16	1 1/4	3.72	94.5	1.71	43.4	.54	1	G44111-1212	7107-00395
16GLX-16FPX	1	1-11 1/2	1 3/8	1 1/2	4.11	104.4	1.87	47.5	.98	1	G44111-1616	7107-00405



Female JIC 37° Flare Swivel



Description	Hose I.D.	Thread	H1	H2	L		C		Wt. Per ea (Lbs.)	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(in)	(mm)	(in)	(mm)				
4GLX-4FJX	1/4	7/16-20	1/2	9/16	2.10	53.3	1.22	31.0	.11	1	G44170-0404	7107-00275
6GLX-6FJX	3/8	9/16-18	5/8	3/4	2.31	58.7	1.25	31.8	.17	1	G44170-0606	7107-00285
8GLX-8FJX	1/2	3/4-16	13/16	7/8	2.82	71.6	1.34	34.0	.30	1	G44170-0808	7107-00295
10GLX-10FJX	5/8	7/8-14	—	1 1/16	2.27	57.7	1.42	36.1	.24	1	G44170-1010	7107-00305
12GLX-12FJX	3/4	1 1/16-12	1 1/16	1 1/4	3.68	93.5	1.67	42.5	.50	1	G44170-1212	7107-00315
16GLX-16FJX	1	1 5/16-12	1 3/8	1 1/2	4.17	105.9	1.94	49.2	1.08	1	G44170-1616	7107-00325
20GLX-20FJX	1 1/4	1 5/8-12	1 3/4	2	4.58	116.3	2.28	57.9	1.30	1	G44170-2020	7107-00335

Male SAE 45° Flare



Description	Hose I.D.	Thread	H1	L		C		Wt. Per ea (Lbs.)	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(mm)	(in)	(mm)				
4GLX-4MS	1/4	7/16-20	1/2	2.11	53.6	1.08	27.5	.09	1	G44195-0404	7107-00525
6GLX-6MS	3/8	5/8-18	5/8	2.38	60.5	1.28	32.6	.15	1	G44195-0606	7107-00535
8GLX-8MS	1/2	3/4-16	13/16	2.89	73.4	1.42	36.1	.25	1	G44195-0808	7107-00545
12GLX-12MS	3/4	1 1/16-14	1 1/16	3.78	96.0	1.77	45.0	.54	1	G44195-1212	7107-00555

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HOSE FINDER



Female SAE 45° Flare Swivel



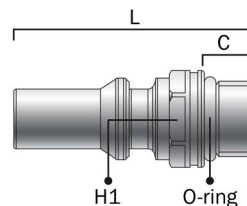
Description	Hose I.D. 	Thread	H1	H2	L		C		Wt. Per ea	Pkg Qty	Part Number	Gates Item No.
	(in)		(in)	(in)	(in)	(mm)	(in)	(mm)	(Lbs.)			
6GLX-6FSX	3/8	5/8-18	5/8	3/4	2.44	62.0	1.35	34.2	.15	1	G44200-0606	7107-00495
12GLX-12FSX	3/4	1 1/16-14	1 1/16	1 1/4	3.68	93.5	1.67	42.5	.51	1	G44200-1212	7107-00515

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PROPER HOSE SELECTION
HOSE FINDER



UNIVERSAL QUICK DISCONNECT COUPLINGS

Data Center Quick Disconnect Plug

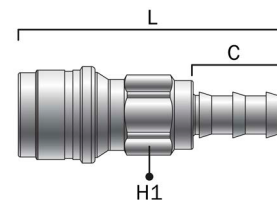


Description	O.D. 	Thread	H1	L		C		Wt. Per ea (Lbs.)	Pkg Qty	Gates Item No.
	(in)		(in)	(in)	(mm)	(in)	(mm)			
UQD02-P-ORB1-B XBULK	43/64	7/16-20	5/8	1.58	40.1	0.36	9.1	.04	1	7245-0017
UQD02-P-ORB1-R XBULK	43/64	7/16-20	5/8	1.58	40.1	0.36	9.1	.04	1	7245-0016
UQD04-P-ORB1-B XBULK	13/16	9/16-18	3/4	1.77	45.0	0.39	10.0	.07	1	7245-0019
UQD04-P-ORB1-R XBULK	13/16	9/16-18	3/4	1.77	45.0	0.39	10.0	.07	1	7245-0018
UQD06-P-ORB1-B XBULK	15/16	3/4-16	7/8	2.21	56.2	0.44	11.1	.12	1	7245-0021
UQD06-P-ORB1-R XBULK	15/16	3/4-16	7/8	2.21	56.2	0.44	11.1	.12	1	7245-0020
UQD08-P-ORB1-B XBULK	1 5/32	7/8-14	1 1/16	2.39	60.6	0.50	12.7	.17	1	7245-0023
UQD08-P-ORB1-R XBULK	1 5/32	7/8-14	1 1/16	2.39	60.6	0.50	12.7	.17	1	7245-0022

NOTE: Blue (B) is for supply lines and red (R) is for return lines.

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HOSE FINDER

Data Center Quick Disconnect Socket



Description	O.D. 	Thread	H1	L		C		Wt. Per ea	Pkg Qty	Gates Item No.
	(in)		(in)	(mm)	(in)	(mm)	(Lbs.)			
UQD02-S-ORB1-B XBULK	51/64	7/16-20	5/8	1.67	42.4	0.36	9.1	.10	1	7245-0009
UQD02-S-ORB1-R XBULK	51/64	7/16-20	5/8	1.67	42.4	0.36	9.1	.10	1	7245-0008
UQD02-S-PB1-B XBULK	51/64	1/4	5/8	2.16	54.8	0.85	21.5	.10	1	7245-0001
UQD02-S-PB1-R XBULK	51/64	1/4	5/8	2.16	54.8	0.85	21.5	.10	1	7245-0000
UQD04-S-ORB1-B XBULK	1	9/16-18	3/4	2.20	56.0	0.39	10.0	.20	1	7245-0011
UQD04-S-ORB1-R XBULK	1	9/16-18	3/4	2.20	56.0	0.39	10.0	.20	1	7245-0010
UQD04-S-PB1-B XBULK	1	3/8	3/4	2.76	70.1	0.96	24.5	.20	1	7245-0003
UQD04-S-PB1-R XBULK	1	3/8	3/4	2.76	70.1	0.96	24.5	.20	1	7245-0002
UQD06-S-ORB1-B XBULK	1 1/8	3/4-16	15/16	2.44	61.9	0.43	11.0	.30	1	7245-0013
UQD06-S-ORB1-R XBULK	1 1/8	3/4-16	15/16	2.44	61.9	0.43	11.0	.30	1	7245-0012
UQD06-S-PB1-B XBULK	1 1/8	1/2	15/16	3.11	79.0	1.06	27.0	.30	1	7245-0005
UQD06-S-PB1-R XBULK	1 1/8	1/2	15/16	3.11	79.0	1.06	27.0	.30	1	7245-0004
UQD08-S-ORB1-B XBULK	1 17/64	7/8-14	1 1/16	2.86	72.7	0.50	12.7	.46	1	7245-0015
UQD08-S-ORB1-R XBULK	1 17/64	7/8-14	1 1/16	2.86	72.7	0.50	12.7	.46	1	7245-0014
UQD08-S-PB1-B XBULK	1 17/64	5/8	1 1/16	3.43	87.2	1.06	26.9	.46	1	7245-0007
UQD08-S-PB1-R XBULK	1 17/64	5/8	1 1/16	3.43	87.2	1.06	26.9	.46	1	7245-0006

NOTE: Blue (B) is for supply lines and red (R) is for return lines.



Green Stripe™ Heavy Duty T-Bolt Clamps



CONSTRUCTION: T-Bolt Standard Design
Band/Bridge: 3/4" width, 201/301 stainless steel.
Bolt: 1/4" – 28 plated steel.
Nut: 7/16" hex, nylon insert, plated steel locknut.
Trunnion: Plated Steel

Size	Clamping Range Min		Clamping Range Max		Recommended Torque	Part Number	Gates Item No.
	(in)	(mm)	(in)	(mm)	(in/lbs)		
N/A	1.375	35.1	1.5625	38.6	75	32749	7422-1049
N/A	1.5	38.1	1.625	41.7	75	32750	7422-1050
N/A	1.625	41.4	1.875	46.0	75	32751	7422-1051
28	1.75	44.5	2	50.8	75	32752	7422-1052
32	1.875	47.8	2.1875	55.6	75	32753	7422-1053
36	2	50.8	2.3125	58.7	75	32754	7422-1054
40	2.125	54.1	2.4375	62.0	75	32755	7422-1055
44	2.25	57.2	2.5625	65.0	75	32756	7422-1056
48	2.375	60.5	2.6875	68.3	75	32757	7422-1057
52	2.5	63.5	2.8125	71.4	75	32758	7422-1058
56	2.625	66.8	2.9375	74.7	75	32759	7422-1059
60	2.75	69.9	3.0625	77.7	75	32760	7422-1060
64	2.875	73.2	3.1875	81.0	75	32761	7422-1061
68	3	76.2	3.3125	84.1	75	32762	7422-1062
72	3.125	79.5	3.4375	87.4	75	32763	7422-1063
76	3.25	82.6	3.5625	90.4	75	32764	7422-1064
80	3.375	85.9	3.6875	93.7	75	32765	7422-1065
84	3.5	88.9	3.8125	96.8	75	32766	7422-1066
92	3.75	95.3	4.0625	103.1	75	32768	7422-1068
100	4	101.6	4.3125	109.5	75	32769	7422-1069
108	4.25	108.0	4.5625	115.8	75	32770	7422-1070
116	4.5	114.3	4.8125	122.2	75	32771	7422-1071
124	4.75	120.7	5.0625	128.5	75	32772	7422-1072

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Chemical Resistance Table

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HOSE FINDER

The Chemical Resistance Table is intended as a guide only. Ratings are based on the best data available. Unless otherwise stated, ratings are based on 100% concentrated or saturated solutions and up to +100°F (+38°C). These ratings do not cover all possible variations of all factors, such as solvents, elevated temperatures, degradation, or fluid contamination. Testing under actual conditions is the best way to ensure chemical compatibility for critical applications. For specific information contact Gates Fluid Power Product Application. Phone (303) 744-5070. Email: fppasupport@gates.com.

"1" Preferred: Constant Contact — Minor or no effect. Approved for continuous contact. Factors such as temperatures, concentration, etc., may reduce service life.

"2" Acceptable: Intermittent Contact — Intended for transfer service and hose should be drained after each use. Prolonged exposure may result in minor to moderate deterioration and/or solution discoloration. Factors such as temperatures, concentration, etc., may reduce service life.

"X" Not Recommended — Unsatisfactory and should not be used.

"-" (Dash) — Insufficient data. Testing recommended.

NOTE 1. Fluid permeation needs to be considered. Hose may show no sign of degradation; however, performance and service life may be negatively affected by fluid permeation through the tube and reinforcement layers.

NOTE 2. Coupling material ratings are for reference only. Specific ratings are available and should be obtained by coupling manufactures. See coupling section for additional contact information.

NOTE 3. The nature of certain chemicals and specific applications is such that Gates cannot offer a suitable hose.

NOTE 4. If a chemical is not listed in the table, contact Gates Fluid Power Product Application. Phone (303) 744-5070. Email: fppasupport@gates.com.

NOTE 5. For Gates Acid/Chemical Hose, permanent-style couplings must be used for service temperatures above +125°F (+52°C).

For certain applications specific hoses must be used.

Steam — Hose from the Steam Hose line

Edible Products — FDA, 3A, USDA

Concentrated Chemicals — Hose from the Acid-Chemical Hose line

Gaseous Fuels — LP350 Hose only

Gasoline and Petroleum Products — Hoses from the Petroleum Transfer Hose line

Hydraulic — Hoses from Hydraulic Products Catalog

Physical Properties After Exposure to Oil

ARPM Designation	Oil Resistance	Volume Change Maximum	Tensile Strength Retained
Class A	High	25%	80%
Class B	Medium	65%	50%
Class C	Limited	100%	40%



Characteristics and Resistance of Tube and Cover Compounds

Please read and observe all warnings and caution statements throughout this catalog.

Gates Type	Common Name or Trade Name	Elastomer	Weather/Ozone	Physical Strength
A	Chloroprene	Polychloroprene (CR)	Very Good	Very Good
B1	Modified EPDM	Ethylene Propylene Diene (EPDM)	Very Good	Good
C	Buna-N Nitrile	Acrylonitrile Butadiene (NBR)	Poor	Good
C1	HNBR	Hydrogenated Nitrile (HNBR)	Very Good	Excellent
C2	Modified Nitrile	Acrylonitrile Butadiene (NBR)	Good	Good
C4	Mod Carbox Nitrile	Carboxylated Nitrile (XNBR)	Good	Excellent
D	Gum Rubber, Buna-S	Natural Rubber (NR) or Styrene Butadiene (SBR)	Fair	Very Good
G	PVC	Polyvinyl Chloride (plasticized)	Very Good	Good
H	Butyl	Isobutylene & Isoprene (IIR)	Poor	Fair
J	CPE	Chlorinated Polyethylene (CM)	Very Good	Good
K	Gatron™	Cross Linked Polyethylene (XLPE)	Excellent	Good
L	UHMWPE	Ultra-High Molecular Weight Polyethylene (UHPE)	Very Good	Very Good
M	Hypalon® ¹	Chlorosulfonated Polyethylene (CSM)	Good	Good
MQ	Silicone	Silicone Rubber	Very Good	Good
P	EPDM	Ethylene Propylene Diene (EPDM)	Very Good	Good
S	Sanitron™	Thermoplastic Vulcanizate (TPV)	Excellent	Good
T	FEP	Fluorinated Polyethylene (FEP)	Excellent	Very Good
U	Urethane	Polyurethane (EU)	Very Good	Excellent
V	Viton® ² , Fluorel® ²	FluoroCarbon Fluoroelastomer (FKM)	Excellent	Very Good
Z	Nylon	Polyamide Resin (PA)	Excellent	Very Good

NOTE: Ratings are for general or typical elastomer formulations. Some hoses have special formulations that change the performance of these characteristics to be more suitable for certain applications, such as improved temperature range or resistance to biodiesel. For selection assistance refer to product catalog pages and also the Hose Finder and Chemical Resistance sections at the back of this catalog.

Contact Gates Product Application Engineering
303-744-5070
fppasupport@gates.com

Resistance to:

Gates Type	Common Name or Trade Name	Abrasion	Permeation to Gases	Petroleum Oils	Refined Fuels	High Temp	Low Temp
A	Chloroprene (Neoprene)	Very Good	Fair	Good	Fair	Good	Good
B1	Gates Proprietary Blend	Good	Poor	Poor	Poor	Excellent	Fair
C	Buna-N Nitrile	Fair	Good	Excellent	Excellent	Good	Fair
C1	Hydrogenated Nitrile (HNBR)	Good	Fair	Very Good	Very Good	Excellent	Good
C2	Modified Nitrile (cover)	Good	Good	Good	Good	Good	Fair
C4	Modified Carboxylated Nitrile (cover)	Excellent	Good	Good	Good	Good	Fair
D	Gum Rubber, Buna-S	Excellent	Poor	Poor	Poor	Fair	Good
D2	Natural Rubber (Food Grade)	Excellent	Poor	Poor	Poor	Good	Good
D3	Natural Rubber (Food Grade)	Excellent	Poor	Poor	Poor	Good	Good
G	PVC	Very Good	Good	Good	Fair	Good	Fair
H	Butyl	Fair	Poor	Poor	Poor	Good	Good
J	CPE	Good	Good	Good	Good	Good	Good
K	Gatron™	Good	Fair	Fair	Fair	Good	Fair
L	UHMWPE	Excellent	Good	Excellent	Good	Good	Fair
M	Hypalon®	Good	Good	Good	Good	Good	Good
MQ	Silicone Rubber	Poor	Poor	Poor	Poor	Excellent	Excellent
P & P1	EPDM	Good	Poor	Poor	Poor	Excellent	Fair
P2	Special for Steam Hose	Fair	Poor	Poor	Poor	Excellent	Poor
S	Sanitron™	Good	Poor	Poor	Poor	Excellent	Good
T	FEP	Very Good	Excellent	Excellent	Excellent	Excellent	Good
U	Urethane	Excellent	Fair	Good	Fair	Fair	Good
V	FKM Viton®, Fluorel®	Good	Good	Excellent	Excellent	Excellent	Good
Z	Nylon	Very Good	Excellent	Excellent	Excellent	Good	Good

¹ Registered Trademark of DuPont® Corporation

² Registered Trademark of 3M® Corporation

TECHNICAL DATA

AGRICULTURE

AIR BREATHING

AIR DUCT

AIR & MULTI-PURPOSE

CHEMICAL

DATA CENTER

ENGINE & MARINE

FOOD & BEVERAGE

MATERIAL HANDLING

MINING

OILFIELD

PETROLEUM

PRESSURE WASH & WASHDOWN

STEAM

WATER

COUPLINGS & CLAMPS

CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

HOSE FINDER



TECHNICAL DATA	Contact Denver Product Application for recommendations for chemicals not listed. Phone: (303) 744-5070 email: fppasupport@gates.com		Gates Hose / Polymers															Couplings / Adapters							
Chem Master™ XTreme™ FEP			Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master	EPDM	NBR	SBR	NR	Chloroprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene			
AGRICULTURE	1 = Preferred - Constant Contact 2 = Acceptable - Intermittent Contact X = Not Recommended -- = No Data																								
AIR BREATHING																									
AIR DUCT	NOTE: Ratings are for the effect on the polymer only!																								
AIR & MULTI-PURPOSE	Chemical	Form (at room temperature unless otherwise stated)	FEP	Gatron™	UHMWPE	Sanitron™	EPDM	NBR	SBR	NR	Chloroprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene		
CHEMICAL	A																								
DATA CENTER	Absorption Oil	Liquid	1	2	2	X	X	1	X	X	2	X	1	2	1	1	-	-	-	-	-	1	-		
	Acetal	Colorless Liquid	1	1	1	1	1	-	-	-	-	1	X	-	1	-	-	-	-	-	-	1	-		
	Acetaldehyde	Colorless Liquid	1	1	1	1	X	2	2	X	1	X	X	1	X	X	1	1	1	1	1	1	1		
ENGINE & MARINE	Acetamide	Liquid above 176°F(80°C)	1	1	2	1	2	2	X	X	2	2	X	-	1	-	-	-	2	-	1	X	-		
	Acetic Acid (40% or less)	Clear Colorless Liquid	1	1	1	1	1	X	2	X	2	1	X	2	1	X	2	X	2	2	2	X	2		
	Acetic Acid (56% or less)	Clear Colorless Liquid	1	1	1	1	1	X	2	X	2	1	X	2	1	X	2	X	2	2	2	X	2		
	Acetic Acid (85% or less)	Clear Colorless Liquid	1	1	1	X	2	X	2	X	X	X	X	X	X	X	X	X	-	2	2	-	X		
	Acetic Acid (Glacial - 99.4%)	Clear Colorless Liquid	1	1	X	X	X	2	X	X	X	X	X	X	1	X	X	-	2	2	-	-	X		
FOOD & BEVERAGE	Acetic Acid, Anhydride	Clear Colorless Liquid	1	-	X	-	-	X	X	X	X	2	-	2	1	X	X	-	2	2	-	-	X		
	Acetic Anhydride (Acetic Oxide)	Colorless Liquid	1	1	1	1	1	X	X	X	-	2	X	2	1	X	X	X	2	2	2	X	X		
	Acetic Ether (Ethyl Acetate)	Colorless Liquid	1	1	1	2	2	X	X	X	X	2	X	X	2	1	X	1	1	1	1	1	2		
	Acetic Oxide (Acetic Anhydride)	Colorless Liquid	1	1	1	1	1	-	X	X	-	2	X	2	1	X	X	X	2	2	2	X	X		
MATERIAL HANDLING	Acetone (Dimethylketone)	Colorless Liquid	1	1	1	1	2	X	X	X	X	2	X	X	1	1	X	1	1	1	1	1	2		
	Acetone Cyanohydrin	Colorless Liquid	1	1	2	2	2	-	X	X	-	2	-	-	2	-	-	-	-	-	-	-	-		
	Acetonitrile (Methyl Cyanide)	Colorless Liquid	1	1	2	1	X	X	2	2	2	2	-	2	1	-	1	-	-	-	-	-	-		
	Acetophenone	Colorless Liquid	1	2	2	2	1	X	X	X	X	1	X	-	-	-	-	-	-	-	-	-	2		
MINING	Acetyl Chloride	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	1	-	X	-	-	-	-	-	-	-	-		
	Acetyl Oxide (Acetic Anhydride)	Colorless Liquid	1	1	1	1	1	X	X	X	-	2	X	2	1	X	X	X	2	2	2	X	X		
	Acetyl-P-Toluidine (In Ether or Alcohols)	In Alcohol or Ether	1	1	1	1	1	-	X	X	-	2	X	-	1	-	-	-	-	-	-	-	-		
OILFIELD	Acetylene	Gas	SPECIAL HOSE REQUIRED																						
	Acetylene Dichloride (Dichloroethylene)	Colorless Liquid	1	X	X	X	X	-	X	X	-	X	1	-	X	1	X	-	-	-	-	-	X		
	Acetylene Tetrachloride	Colorless Liquid	1	X	X	X	X	-	X	X	-	X	1	-	X	1	X	-	-	-	-	-	-		
PETROLEUM	Acrolein (Hydroquinone Inhibited)	Colorless to Yellow Liquid	1	1	1	2	X	-	-	-	-	2	X	-	-	-	-	-	-	-	-	-	-		
	Acrylamide	Colorless Crystals	1	1	2	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-		
	Acrylates (HEA or HPA)	Colorless Liquid	1	1	1	1	X	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-		
PRESSURE WASH & WASHDOWN	Acrylic Acid	Colorless Liquid	1	1	1	1	-	-	-	-	-	-	1	-	2	-	-	-	-	-	-	-	-		
	Acrylic Acid (Glacial 97%)	Colorless Liquid	1	1	1	X	X	X	X	X	X	1	X	X	X	X	X	-	-	-	-	-	-		
	Acrylic Emulsion	Liquid	1	1	1	X	X	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-		
STEAM	Acrylonitrile	Colorless Liquid	1	2	2	1	X	X	2	2	X	X	X	X	1	-	1	1	1	1	-	-	-		
	Adipic Acid (70°F)	White Crystals	1	1	X	1	1	X	X	1	X	-	X	-	-	X	X	-	-	-	-	-	-		
	Aeroshell 7A, 17 Grease	Liquid	1	-	-	-	-	1	-	-	2	-	-	-	-	-	-	1	1	1	1	-	-		
WATER	Air, 212°F (100°C)	Colorless Gas	1	1	2	1	1	1	2	X	1	1	1	1	1	X	2	1	1	1	1	1	-		
	Air, 257°F (125°C)	Colorless Gas	1	1	X	1	1	X	X	X	2	1	1	1	1	X	X	-	-	-	-	-	-		
	Air, 300°F (149°C)	Colorless Gas	1	1	X	1	1	X	X	X	X	1	1	X	X	X	X	-	-	-	-	-	-		
COUPLINGS & CLAMPS	Air, Ambient	Colorless Gas	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	Aircraft Hyd. Oil AA	Liquid	1	1	-	-	X	1	-	-	-	X	-	-	-	-	-	-	1	1	1	1	-		
	Alachlor (Lasso)	Colorless Crystals	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	1	-	-	-		
	Alkaline Liquid (NDS)	In Water Solutions	1	1	1	1	1	-	-	-	-	1	2	-	1	-	-	-	-	-	-	-	-		
CHEMICAL RESISTANCE TABLE	Alkaryl Polyether	Alcohol	-	1	1	1	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-		
	Alkyd Resin (Thermosetting Polymer)	Varies	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Alkylaryl Sulfonate (Alkylbenzene Sulfonate)	Powder	1	1	1	-	-	1	-	1	-	-	1	X	1	-	-	1	1	-	-	-	-		
PROPER HOSE SELECTION	Allomaleic Acid (Fumaric Acid) Solution	Liquid	1	1	-	-	2	1	2	2	-	-	1	-	-	-	X	-	1	1	-	-	-		
	Allyl Alcohol	Colorless Liquid	1	1	1	1	1	1	-	1	1	1	1	1	1	X	X	-	-	-	-	-	-		
	Allyl Bromide	Colorless to Yellow Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
HOSE FINDER	Allyl Chloride	Colorless Liquid	1	1	X	X	X	X	X	X	X	X	1	-	2	1	X	-	1	1	-	-	2		
	Alpha Methylstyrene	Colorless Liquid	1	2	2	X	X	X	X	X	X	X	1	-	X	1	X	-	-	-	-	-	-		
	Alpha Olefin Sulfonate	Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-		



Contact Denver Product Application for recommendations for chemicals not listed.
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email: fppasupport@gates.com

1 = Preferred - Constant Contact
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X = Not Recommended
- = No Data

NOTE: Ratings are for the effect on the polymer only!

		Gates Hose / Polymers														Couplings / Adapters							
		Chem Master™ XTreme™ FEP	Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master																		
Chemical	Form (at room temperature unless otherwise stated)	T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene	
Alpha Picaline	Colorless Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Alum (Aluminum Sulphate or Other)	White Crystals	1	1	-	1	1	1	-	1	1	-	-	-	X	-	-	X	X	2	X	X	1	
Alum. Potash (Aluminum Potassium Sulfate)	White Crystals	1	-	-	-	-	-	-	1	-	-	-	-	X	-	-	X	2	2	X	X	1	
Alumina - Calcined (Conveyed Pneumatically)	Granular	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Alumina Trihydrate (Conveyed Pneumatically)	White Crystalline Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aluminum Acetate	White Powder	1	1	-	-	-	-	1	1	-	-	X	-	-	-	-	-	1	1	-	X	-	
Aluminum Alkyl (ie Triethylaluminum)	Colorless Liquid	X	X	X	X	X	X	X	X	X	X	1	X	X	X	X	-	-	-	-	-	-	
Aluminum Bromide	White to Yellow Crystals	1	1	-	-	1	1	1	1	1	1	1	1	-	-	-	X	2	2	-	X	-	
Aluminum Chloride Solution	White to Yellow Solution	1	1	X	1	1	1	1	1	-	1	1	-	1	-	-	X	2	2	X	X	1	
Aluminum Chloride, Anhydrous	White to Yellow Crystals	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aluminum Chlorohydrate Solution (Up to 50%)	White Solution	1	1	1	1	1	1	-	-	-	1	1	-	1	-	-	-	-	-	-	-	-	
Aluminum Fluoride	White Crystals	1	1	-	-	-	-	-	1	1	-	-	-	-	-	1	X	2	2	2	X	1	
Aluminum Formate (Di & Tri In Water)	In Hot Water	1	1	1	1	1	1	X	X	-	1	X	-	1	-	-	-	-	-	-	-	-	
Aluminum Hydroxide (Alumina Trihydrate)	In Mineral Acid or Caustic Soda	1	1	1	1	-	X	X	X	1	1	2	-	1	X	X	-	1	1	-	1	1	
Aluminum Nitrate	In Cold Water	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	X	1	1	2	-	1	
Aluminum Phosphate Solution	In HCl or HNO3 (slightly soluble)	1	1	1	-	-	X	X	X	X	-	1	-	-	X	X	-	-	-	-	-	-	
Aluminum Salts	Varies	1	1	-	-	1	1	1	1	1	1	-	1	-	-	1	-	2	2	2	-	1	
Aluminum Sulfate	White Crystals	1	1	-	1	1	1	-	1	1	-	-	-	-	-	-	X	X	2	X	X	1	
Aluminum Sulfate Solution	In Water	1	1	1	1	1	1	1	1	-	1	1	-	1	-	-	X	X	2	X	X	1	
Aluminum Sulfate Solution (49.7% H2O)	Liquid	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	X	X	2	X	X	1	
Amines (A class of Organic Compounds)	Varies	1	1	1	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	
Amines (Aromatic - IE P-Toluidine)	White Plates (Solid)	1	-	-	-	-	-	-	1	-	-	X	-	-	-	-	-	-	-	-	-	-	
Amines (Mixed)	Varies	1	2	1	-	2	2	2	2	2	2	X	-	-	-	-	-	1	-	X	X	-	
Amines (Primary, Secondary, Tertiary, Etc)	Varies	1	2	1	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	
Aminodiphenylamine	Purple Powder	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aminoethanol (Ethanolamine)	Colorless Viscous Liquid	1	2	1	1	2	2	2	2	2	2	X	X	1	1	2	1	1	1	-	1	-	
Aminoethylethanolamine	Liquid	1	2	1	2	2	-	-	-	-	1	-	-	1	1	-	-	-	-	-	-	-	
Ammonia (Anhydrous)	Gas or Liquid	NO HOSE AVAILABLE																-	-	-	-	-	-
Ammonia (Aqueous up to 30% NH3)	Colorless Liquid	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	-	1	1	-	X	1	
Ammonia Liquor	Colorless Liquid	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ammoniated Fatty Acid (ie Ammonium Caprylate)	Liquid above 167°F (75°C)	1	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
Ammonium Acetate	In Water	1	1	1	1	1	1	1	1	2	1	1	-	1	2	1	-	1	1	-	X	1	
Ammonium Bicarbonate	White Crystals	1	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	1	
Ammonium Bisulfate (50%)	Colorless Liquid	1	1	1	1	1	-	-	-	-	1	1	-	1	-	-	-	-	-	-	-	-	
Ammonium Carbonate	Colorless to White Powder	1	1	-	-	-	X	-	1	2	-	-	-	-	-	1	1	1	1	-	-	1	
Ammonium Chloride	White Crystals	1	-	X	-	-	-	-	1	-	-	-	-	-	-	-	-	2	2	-	X	1	
Ammonium Chloride Solution	Liquid	1	1	-	-	1	2	1	1	X	1	-	1	1	X	1	-	2	2	-	X	1	
Ammonium Fluoride	White Crystals	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	

TECHNICAL DATA
AGRICULTURE
AIR BREATHING
AIR DUCT
AIR & MULTI-PURPOSE
CHEMICAL
DATA CENTER
ENGINE & MARINE
FOOD & BEVERAGE
MATERIAL HANDLING
MINING
OILFIELD
PETROLEUM
PRESSURE WASH & WASHDOWN
STEAM
WATER
COUPLINGS & CLAMPS
CHEMICAL RESISTANCE TABLE
PROPER HOSE SELECTION
HOSE FINDER



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AGRICULTURE			Chem Master™ XTreme™ FEP	Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene
AIR BREATHING																							
AIR DUCT																							
AIR & MULTI-PURPOSE	Chemical	Form (at room temperature unless otherwise stated)	T	K	L	S	EPDM	NBR	SBR	NR	Chloroprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC						
CHEMICAL	Ammonium Hydroxide (16%, 20%, 26%, & 30%)	Colorless Liquid	1	1	1	1	-	-	-	-	-	-	2	-	-	-	-	2	1	1	-	X	1
DATA CENTER	Ammonium Hydroxide (up to 30% NH3)	Colorless Liquid	1	1	1	1	1	2	X	2	2	2	2	1	1	X	X	2	1	1	-	X	1
	Ammonium Metaphosphate	White Powder	1	1	-	-	1	2	2	2	2	1	-	2	-	-	2	1	1	1	X	-	1
ENGINE & MARINE	Ammonium Nitrate	Colorless Crystals	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1	1	2	X	1
	Ammonium Nitrate Fertilizer (20.5% N, or 33.5% N)	Aggregate	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1	1	2	X	1
FOOD & BEVERAGE	Ammonium Nitrate Prills and Oil	Aggregate	1	-	-	-	-	1	-	1	-	-	-	-	-	-	-	1	1	1	2	X	1
	Ammonium Nitrate Solution (up to 83%)	Liquid	1	1	1	1	1	1	-	1	1	-	1	1	1	1	-	1	1	1	2	X	1
MATERIAL HANDLING	Ammonium Nitrite	Colorless Crystal	1	1	-	-	-	X	X	X	2	-	-	-	1	-	-	-	1	1	-	-	1
	Ammonium Persulfate	Solution in Water	1	1	-	-	-	X	-	-	X	-	X	-	-	-	-	-	1	1	-	X	X
MINING	Ammonium Phosphate	White Crystals or Powder	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	X	2	1	X	-	1
	Ammonium Phosphate Solution	Liquid	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	X	2	1	X	-	1
OILFIELD	Ammonium Polysulfide Solution	Yellow Solution	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ammonium Sulfate	Gray to White Crystals	1	1	-	-	-	-	-	1	-	-	-	-	1	-	-	1	1	1	X	X	1
PETROLEUM	Ammonium Sulfide	Yellow Crystals	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1	1	X	X	1
	Ammonium Sulfide Solution (40-44% or less)	Liquid	1	1	-	-	1	2	1	1	-	1	1	1	1	-	1	1	1	1	X	X	1
PRESSURE WASH & WASHDOWN	Ammonium Thiocyanate (50-60% less)	In Water	1	1	1	1	1	1	1	1	1	-	1	1	1	-	-	1	1	1	-	-	1
	Amyl Acetate (Banana or Pearl Oil)	Colorless Liquid	1	1	1	-	2	X	X	X	X	2	X	X	X	1	X	X	1	1	X	1	X
STEAM	Amyl Alcohol	Colorless Liquid	1	2	2	2	2	2	2	2	2	2	1	2	1	1	2	1	1	1	1	1	-
	Amyl Chloride (Chloropentane)	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	1	1	-	-	X
WATER	Amyl Chlorides (mixed)	Straw to Purple Liquid	1	2	2	X	X	X	X	X	X	X	1	X	X	1	X	-	1	1	-	-	X
	Amyl Chloronaphthalene	-	1	1	2	X	X	X	X	X	X	X	1	X	X	1	-	-	1	1	-	-	-
COUPLINGS & CLAMPS	Amyl Naphthalene	-	1	1	-	-	X	X	X	X	X	X	1	X	X	-	-	-	1	1	-	-	-
	Amyl Phenol	Clear Straw Colored Liquid	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-
HOSE FINDER	Amylamine	Colorless Liquid	1	X	-	-	X	2	-	X	X	X	X	X	2	-	-	-	-	-	-	-	-
	Amylbenzene (sec amylbenzene)	Clear Liquid	1	2	2	X	X	2	X	X	2	X	1	-	-	-	-	-	-	-	-	-	-
PROPER HOSE SELECTION	Anethole (anise camphor)	White Crystals/Liquid 73°F(23°C)	1	2	-	-	-	X	X	X	X	X	1	X	X	X	-	2	1	1	2	X	1
	Anhydrous Ammonia (R 717)	Gas or Liquid	NO HOSE AVAILABLE																-	-	-	-	-
CHEMICAL RESISTANCE TABLE	Aniline	Colorless Oily Liquid	1	2	X	1	2	X	X	X	X	2	1	X	2	X	-	2	1	1	2	X	1
	Aniline Dyes	-	1	1	-	1	2	X	X	X	X	2	2	X	2	-	-	X	1	1	-	-	2
HOSE FINDER	Aniline Hydrochloride	White Crystals	1	1	-	-	2	2	2	2	X	2	-	-	-	-	-	-	X	X	-	X	2
	Aniline Oil (Aniline)	Colorless Oily Liquid	1	2	X	1	2	X	X	X	X	2	1	X	2	X	-	2	1	1	2	X	1
CHEMICAL RESISTANCE TABLE	Animal Fat (Lard)	White Solid/Liquid > 108°F(42°C)	1	2	2	X	X	1	X	X	2	X	1	X	2	1	-	1	1	1	1	X	-
	Animal Gelatin	-	1	-	1	-	-	1	-	-	1	-	-	-	-	-	1	-	1	1	-	-	-
PROPER HOSE SELECTION	Animal Grease, Inedible, Liquid	Liquid	1	-	-	-	X	1	-	X	2	X	1	2	2	-	-	-	-	-	-	-	-
	Animal Oils	Solid to Liquid	1	-	-	2	-	1	-	-	2	-	-	-	1	1	1	1	1	1	1	-	-
HOSE FINDER	Ant Oil (Furfural)	Colorless to Reddish Brown Liquid	1	1	-	2	X	X	X	X	2	X	2	2	1	-	X	2	1	1	1	1	2
	Antifreeze (Glycol Base)	Liquid	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
HOSE FINDER	Antimony Chloride (50%)	White Powder	1	1	1	-	-	-	-	-	-	2	1	-	-	1	1	X	X	X	-	-	1
	Antimony Pentachloride	Reddish-Yellow Liquid	1	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
HOSE FINDER	Antimony Salts	White Crystal	1	1	-	-	1	2	-	-	-	1	1	-	-	-	1	-	-	-	-	-	-
	Aqua Ammonia (Ammonium Hydroxide)	Colorless Liquid	1	1	1	1	1	2	2	2	2	2	2	1	1	X	X	2	1	1	-	X	1
HOSE FINDER	Aqua Regia (Nitrohydrochloric Acid)	Fuming Yellow Liquid	1	2	X	X	X	X	X	X	X	X	1	X	2	X	X	-	X	X	-	-	X



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		Gates Hose / Polymers														Couplings / Adapters						
		Chem Master™ XTreme™ FEP	Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master																	
Chemical	Form (at room temperature unless otherwise stated)	T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene
Argon, Compressed	Colorless Gas	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-
Aromatic Hydrocarbons	Typically Colorless Liquids	1	2	2	X	X	2	X	X	X	X	1	X	X	1	X	1	1	1	2	2	-
Arsenic Acid	In Water	1	1	1	2	2	-	X	X	-	2	1	-	1	-	-	2	-	1	2	-	2
Arsenic Trioxide	In Acid	1	1	1	2	X	2	X	X	2	X	1	X	-	-	1	-	-	-	-	-	-
Askarel (Transformer Oil)	Varies	1	2	2	X	X	X	X	X	X	X	1	X	1	1	X	1	1	1	-	1	2
Asphalt	Varies	1	2	X	X	X	2	X	X	-	X	1	-	-	X	X	1	1	1	-	1	-
Asphalt (Blown)	Black Solid	-	-	X	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
Asphalt (Cut Back)	Black Liquid	1	X	X	X	X	2	X	X	2	X	1	X	X	2	X	1	1	1	-	1	-
Asphalt Emulsion	Black Liquid	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Asphalt Paint	Black Liquid	1	2	X	X	X	2	X	X	-	X	1	X	-	2	X	-	-	-	-	-	-
Asphaltene	In Carbon Disulfide	1	2	X	X	X	2	X	X	2	X	1	X	X	1	-	-	-	-	-	-	-
ASTM Oil No. 1	Brown Liquid	1	1	1	2	X	1	X	X	1	X	1	2	1	1	2	1	1	1	1	1	2
ASTM Oil No. 2	Brown Liquid	1	1	1	X	X	1	X	X	2	X	1	2	1	1	X	1	1	1	1	1	X
ASTM Oil No. 3	Brown Liquid	1	1	1	X	X	1	X	X	X	X	1	X	1	1	X	1	1	1	1	1	X
ASTM Reference Fuel A	Liquid	1	1	1	2	X	1	X	X	1	X	1	1	1	1	2	1	1	1	1	1	X
ASTM Reference Fuel B	Liquid	1	2	1	X	X	1	X	X	2	X	1	X	2	1	X	1	1	1	1	1	X
ASTM Reference Fuel C	Liquid	1	2	2	X	X	2	X	X	X	X	1	X	2	1	X	1	1	1	-	1	X
ATF (Automatic Transmission Oil)	Liquid	1	1	2	X	X	1	-	-	-	X	1	-	1	-	-	-	-	-	-	-	-
B																						
Baltic Types 100, 150, 200, 300, 500	Liquid	1	1	-	-	X	1	-	-	-	X	-	-	-	-	2	-	-	-	-	-	2
Banvel (Ag Spray, Concentrated)	Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-
Bardol B	Dark Colored Liquid	1	1	-	-	X	X	X	X	X	X	2	X	-	-	-	1	1	1	-	-	-
Barite (Natural Barium Sulfate)	White to Yellowish Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1	1	-	2	1
Barium Carbonate	White Powder	1	1	-	-	X	1	X	1	1	X	1	X	1	-	1	2	1	1	-	1	1
Barium Chloride	Colorless Crystals	1	1	1	1	1	1	1	1	1	1	1	1	1	X	1	X	1	1	-	2	1
Barium Hydroxide	White Powder	1	1	1	-	1	1	X	1	1	1	-	1	1	-	X	2	1	1	-	-	1
Barium Sulfate	White to Yellowish Powder	-	-	-	-	-	-	-	1	-	-	-	-	X	-	-	1	1	1	-	2	1
Barium Sulfide	Yellowish Green to Gray Powder	1	1	1	-	-	-	-	1	-	-	1	-	1	-	-	X	1	1	-	X	1
Basic Copper Arsenate	Blue to Green Powder	1	1	-	-	-	-	2	1	-	-	1	2	-	-	1	1	1	1	-	-	-
BBP (Butyl Benzyl Phthalate)	Clear Oily Liquid	1	-	-	-	-	X	-	X	-	1	X	X	-	-	-	-	-	-	-	-	-
Beer	Yellow Liquid	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beet Sugar Liquors	Colorless Solution	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	X	X	X	X	-	X
Bellows 80-20 Hydraulic Oil	Liquid	1	1	-	-	X	1	-	-	-	X	-	-	-	-	2	-	-	-	-	-	X
Benzaldehyde (Benzoic Aldehyde)	Colorless to Yellow	1	1	1	2	2	X	X	X	X	2	X	X	X	2	X	1	-	-	1	-	1
Benzene (Benzol)	Colorless to Yellow Liquid	1	2	2	X	X	X	X	X	X	X	1	X	X	1	X	1	1	1	1	1	X
Benzenesulfonic Acid	Liquid above 151°F (66°C)	1	1	1	-	-	-	X	X	X	2	1	2	-	-	X	X	-	2	X	-	1
Benzidine	Paste	1	2	-	-	X	2	X	1	X	X	-	-	-	-	X	1	1	1	1	1	X
Benzoic Acid	White Crystals	1	1	1	1	2	X	X	X	X	2	1	2	1	-	X	-	-	-	-	-	-
Benzoic Aldehyde (Benzaldehyde)	Colorless to Yellow Liquid	1	1	1	2	2	X	X	X	X	2	X	X	2	2	X	1	-	-	1	-	1
Benzol (Benzene)	Colorless to Yellow Liquid	1	2	X	X	X	X	X	X	X	X	1	X	X	1	X	1	1	1	1	1	X
Benzophenone	White Powder	1	1	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-
Benzotrichloride	Colorless to Yellow Liquid	1	-	-	X	X	X	X	X	X	X	1	-	X	2	X	-	-	-	-	-	-
Benzyl Acetate	Water White Liquid	1	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TECHNICAL DATA
AGRICULTURE
AIR BREATHING
AIR DUCT
AIR & MULTI-PURPOSE
CHEMICAL
DATA CENTER
ENGINE & MARINE
FOOD & BEVERAGE
MATERIAL HANDLING
MINING
OILFIELD
PETROLEUM
PRESSURE WASH & WASHDOWN
STEAM
WATER
COUPLINGS & CLAMPS
CHEMICAL RESISTANCE TABLE
PROPER HOSE SELECTION
HOSE FINDER

TECHNICAL DATA	Contact Denver Product Application for recommendations for chemicals not listed. Phone: (303) 744-5070 email: fppasupport@gates.com		Gates Hose / Polymers															Couplings / Adapters								
AGRICULTURE			1 = Preferred - Constant Contact 2 = Acceptable - Intermittent Contact X = Not Recommended - = No Data		Chem Master™ X-Treme™ FEP	Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master																		
																										AIR BREATHING
AIR & MULTI-PURPOSE	NOTE: Ratings are for the effect on the polymer only!		T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene			
	Chemical	Form (at room temperature unless otherwise stated)	FEP	Gator™	UHMWPE	Sanitron™	EPDM	NBR	SBR	NR	Chloroprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene			
CHEMICAL	Benzyl Alcohol	Water White Liquid	1	1	1	1	2	X	X	X	X	1	1	X	1	X	1	-	-	-	-	-	-			
	Benzyl Alcohol, Photo Inhibited	Water White Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-	1			
	Benzyl Benzoate	Water White Liquid	1	1	-	-	2	-	-	-	-	2	1	-	-	-	-	1	1	1	-	-	-			
DATA CENTER	Benzyl Chloride	Colorless Liquid	1	2	2	X	X	X	X	X	X	1	-	X	2	X	1	-	-	-	-	-	-			
	Bicarbonate of Soda	White Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-			
	Bio-Diesel (B100)	Liquid below 125°F (52°C)	1	2	2	-	-	2	-	-	-	-	1	2	2	2	X	2	2	1	1	2	1			
ENGINE & MARINE	Bio-Diesel (B100)	Liquid 125°F (52°C) and Above	1	X	X	X	X	X	X	X	X	1	X	X	2	X	2	2	1	1	2	1				
	Bismuth Carbonate	White Powder	1	-	-	-	-	-	-	1	X	-	-	-	-	-	-	1	1	1	-	-	1			
	Bisphenol A	White Flakes	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-			
FOOD & BEVERAGE	Bitumastic	Liquid	1	-	X	-	X	2	X	X	2	X	2	X	2	-	-	1	1	1	-	1	-			
	Black Liquor (RXN Product Pulpwood+NaOH)	Black Alkaline Liquid	1	1	1	1	2	2	X	X	2	2	1	2	2	-	1	1	1	-	-	1				
	Black Sulfate Liquor (See "Black Liquor")	Black Alkaline Liquid	1	1	1	1	2	2	X	X	2	2	1	2	X	-	1	1	1	-	-	1				
MATERIAL HANDLING	Blast Furnace Gas (Cooled)	Gas	1	1	-	-	-	X	X	X	X	X	1	X	2	-	X	1	1	1	-	1	-			
	Bleach (Chlorinated Lime)	White Powder (35-37% Cl)	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-				
	MINING	Bleach Liquor (Calcium Hypochlorite/H2O)	Clear Solution	1	1	1	1	2	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-			
Borax (Sodium Borate)		White Crystals	1	1	-	-	1	1	1	1	1	1	1	1	1	1	1	2	1	1	-	2	1			
OILFIELD		Bordeaux Mixture (Slaked Lime & Copper Sulfate)	In Water	1	1	1	1	1	1	2	2	2	1	1	-	-	-	1	-	1	1	-	-	-		
	PETROLEUM	Boric Acid	White Powder or Colorless Scale	1	1	1	1	1	1	1	1	1	1	1	1	X	1	X	2	1	1	X	1			
		Boric Oxide	Colorless Powder	1	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-		
PRESSURE WASH & WASHDOWN		Brake Fluid (Petroleum Base)	Liquid	1	1	-	X	X	1	X	X	2	X	1	X	1	1	2	1	1	1	-	1	X		
	Brake Fluid (Synthetic) DOT2, DOT3, DOT4	Liquid	1	1	-	1	1	X	X	X	X	1	X	X	1	-	2	1	1	1	-	1	-			
	Brine (Salt)	Liquid	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	-	2	1			
STEAM	Bromine	Dark Reddish Brown Liquid	1	-	-	X	X	X	-	-	X	-	1	-	-	X	X	1	1	1	1	1	-			
	Bromobenzene	Colorless Liquid	1	-	-	X	X	-	X	X	-	X	1	-	-	-	X	-	-	-	-	-	-			
	WATER	Bromochloroethane	Colorless Liquid	-	-	X	X	X	-	X	X	-	X	X	-	X	X	-	-	-	-	-	-	-		
Bromochloromethane (Chlorobromomethane)		Clear Liquid	1	2	X	X	X	X	X	X	X	X	X	X	X	X	X	1	1	1	-	1	X			
COUPLINGS & CLAMPS		Bromotoluene	Clear Liquid	1	-	-	X	X	-	X	X	-	X	1	-	X	-	X	-	-	-	-	-	-		
	Bubble Bath Compounds	Liquid	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	Bunker Oil	Liquid	1	2	2	X	X	1	X	X	2	X	1	X	-	1	X	1	1	1	1	1	-			
CHEMICAL RESISTANCE TABLE	Butadiene (1, 3)	Gas	1	1	-	X	X	2	X	X	X	X	1	X	-	1	X	-	1	1	-	1	1			
	Butanal (Butyraldehyde)	Water White Liquid	1	2	-	-	X	X	X	X	X	X	X	X	2	-	-	-	-	-	-	1	-			
	Butandiol (Butylene Glycol)	Colorless Oily Liquid	1	1	2	-	-	-	-	-	-	-	1	-	-	X	-	-	-	-	-	-	-			
	Butane (Gas)	Colorless Gas	USE LPG HOSE ONLY																-	-	-	-	-	-		
	Butane (Liquid)	Liquid	USE LPG HOSE ONLY																-	-	-	-	-	-	-	
PROPER HOSE SELECTION	Butanol (Butyl Alcohol)	Colorless Liquid	1	1	1	1	1	1	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1			
	Butter	Yellow/White Semi-Solid/Liquid	-	-	-	2	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-			
	Butter Oil (Use FDA Hose)	Yellow to white Liquid	1	-	-	2	-	-	X	X	2	-	-	-	-	-	-	1	1	1	1	1	-			
HOSE FINDER	Butyric Acid	Colorless Liquid	1	1	1	1	2	-	2	2	X	2	1	X	1	X	-	-	-	-	-	-	-			
	Butyl Carbitol (Diethylene Glycol Butyl Ether)	Colorless Liquid	1	1	-	2	2	2	X	X	2	2	1	-	1	-	-	1	1	1	1	1	-			



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		Chem Master™ XTreme™ FEP	Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master																	
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NOTE: Ratings are for the effect on the polymer only!																						
Chemical	Form (at room temperature unless otherwise stated)	T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene
Butyl Cellosolve (EG Monobutyl Ether)	Colorless Liquid	1	1	-	1	1	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-
Butyl "Dixitol™" for EG Monobutyl Ether	Colorless Liquid	1	1	-	1	1	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-
Butyl Acetate	Colorless Liquid	1	2	2	1	X	X	X	X	X	2	X	X	2	1	1	2	1	1	1	1	X
Butyl Acrylate	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-
Butyl Alcohol (Butanol)	Colorless Liquid	1	1	1	1	1	1	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1
Butyl Aldehyde	Water White Liquid	1	-	-	-	2	X	-	-	X	-	X	X	2	-	-	-	-	-	-	-	-
Butyl Benzyl Phthalate (BBP)	Clear Oily Liquid	1	-	-	-	-	X	-	X	-	1	X	X	-	-	-	-	-	-	-	-	-
Butyl Chloride	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	1	-	X	-	-	-	-	-	-	-	-
Butyl Ether	Colorless Liquid	1	1	-	-	-	2	X	X	2	2	X	-	1	-	-	1	1	1	1	1	-
Butyl Ethyl Ether (Ethyl-n-Butyl Ether)	Liquid	1	-	-	-	-	2	-	X	-	X	-	2	-	-	-	-	-	-	-	-	-
Butyl Formate	Colorless Liquid	1	-	-	-	-	X	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-
Butyl Mercaptan (2-Methyl-2-Butanethiol)	Liquid	1	1	-	X	X	-	X	X	-	X	1	-	-	-	X	-	1	1	-	-	-
Butyl Methacrylate	Colorless Liquid	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butyl Stearate	Colorless Liquid	1	1	-	-	X	2	X	X	X	X	1	-	2	-	1	1	1	1	1	1	-
Butylamine	Colorless Liquid	1	1	-	-	-	X	X	X	X	X	X	X	2	-	-	1	1	1	1	1	X
Butylene Glycol (Butandiol)	Colorless Oily Liquid	1	1	2	-	-	-	-	-	-	-	1	-	-	X	-	-	-	-	-	-	-
Butyraldehyde (Butanal)	Water White Liquid	1	2	-	-	X	X	X	X	X	X	X	X	2	-	-	-	-	-	-	1	-
Butyric Acid	Colorless Liquid	1	1	1	1	1	-	-	-	-	1	1	X	1	1	1	X	1	1	1	2	-
Butyric Anhydride	Water White Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C																						
Cadmium Acetate (Soluble in H2O & Alcohols)	In Water or Alcohol	1	-	-	-	-	X	-	X	-	1	X	-	-	-	-	-	-	-	-	-	-
Cake Alum (Aluminum Sulfate)	White Crystals	1	1	-	1	1	1	-	1	1	-	-	-	-	-	-	X	X	2	X	X	1
Cake Alum Solution (Al Sulphate up to 50%)	In Water	1	1	1	1	1	1	-	-	-	1	1	-	1	1	1	-	-	-	-	-	-
Calcine Liquor (Radioactive Waste)	In Water Solution	1	1	-	-	1	1	-	-	-	1	1	-	-	-	-	1	1	1	2	-	-
Calcium Acetate	Powder	1	1	-	-	1	X	2	2	X	1	X	X	1	-	-	1	1	1	1	1	-
Calcium Aluminate (Soluble in Acids)	In Acid	1	-	-	-	-	1	-	1	1	1	1	1	-	-	-	-	-	-	-	-	-
Calcium Aluminate (Tricalcium Aluminate)	Crystals or Powder	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium Arsenate	In Dilute Acid	1	1	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-
Calcium Bisulfide (Calcium Hydrosulfide)	In Alcohol or Water	1	1	-	-	-	1	2	2	1	1	1	1	1	-	2	-	2	1	-	X	1
Calcium Bisulfite (Calcium Hydrogen Sulfite)	Yellow Liquid	1	1	-	-	-	1	2	2	1	1	1	1	1	-	1	-	1	1	-	-	1
Calcium Bromide Solution	In Water or Alcohol	1	1	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Calcium Carbonate	Solid White Powder	1	1	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Calcium Carbonate Slurry	Solid in H2O	1	-	-	-	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-
Calcium Chlorate	In Water or Alcohol	1	1	-	-	2	1	2	2	1	2	-	1	-	-	1	-	2	1	-	-	1
Calcium Chloride, Dry	White Solid	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	X	2	1	-	2	1
Calcium Chloride, Liquid (Not For Food)	In Water or Alcohol	1	1	-	1	1	1	1	1	1	1	1	1	1	X	1	-	-	-	-	-	-
Calcium Chloride, Liquid, Food-grade 33%	In Water	1	-	-	-	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-
Calcium Hydrogen Sulfite (Calcium Bisulfite)	Yellow Liquid	1	1	-	-	-	1	2	2	1	1	1	1	1	-	1	-	1	1	-	-	1
Calcium Hydrosulfide (Calcium Bisulfide)	In Alcohol or Water	1	1	-	-	-	1	2	2	1	1	1	1	1	-	2	-	2	1	-	X	1
Calcium Hydroxide (Hydrated or Slaked Lime)	Solid White Powder	1	1	-	1	-	2	1	1	1	1	X	1	1	-	X	X	X	1	-	2	1
Calcium Hydroxide Solutions	In Glycerol or Acids	1	1	X	-	-	2	-	-	-	-	-	-	-	X	-	2	1	1	X	X	-
Calcium Hypochlorite	Solid White Crystals	1	2	X	-	-	-	X	X	X	2	-	2	1	X	2	-	-	-	-	-	-

TECHNICAL DATA
AGRICULTURE
AIR BREATHING
AIR DUCT
AIR & MULTI-PURPOSE
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Chem Master™ X-Treme™ FEP			Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene				
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AIR BREATHING																										
AIR DUCT	NOTE: Ratings are for the effect on the polymer only!		T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G									
AIR & MULTI-PURPOSE	Chemical	Form (at room temperature unless otherwise stated)	FEP	Gator™	UHMWPE	Sanitron™	EPDM	NBR	SBR	NR	Chloroprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene			
CHEMICAL	Calcium Hypochlorite Solutions	In Water or Alcohol	1	1	X	-	-	-	X	X	X	2	-	2	1	-	1	-	X	2	X	X	1			
	Calcium Metasilicate (Calcium Silicate)	White Powder	1	1	-	-	-	2	2	1	-	2	1	2	1	-	1	1	1	1	1	1	-			
	Calcium Nitrate Solutions	In Water, Alcohol, or Acetone	1	1	-	-	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1			
DATA CENTER	Calcium Oxide (Lime; quick, unslaked)	White to Gray Lumps	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	2	-	-	-			
	Calcium Silicate (Calcium Metasilicate)	White Powder	1	1	-	-	-	2	2	1	-	2	1	2	1	-	1	1	1	1	1	1	-			
ENGINE & MARINE	Calcium Stearate	White Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-			
	Calcium Sulfate	White Powder or Crystals	1	1	-	-	1	1	-	1	1	1	1	1	1	-	-	1	1	1	-	1	1			
FOOD & BEVERAGE	Calcium Sulfide	Yellow to Gray Powder	1	1	-	-	-	1	2	1	2	1	2	1	1	-	2	1	1	1	2	-	-			
	Calcium Sulfite (Soluble In Sulfurous Acid)	In Acid	1	1	1	1	1	-	-	-	-	X	1	-	1	-	-	-	-	-	-	-	-			
MATERIAL HANDLING	Caliche Liquors (Sodium Nitrate)	In Water	1	1	-	-	-	1	2	2	-	1	-	1	-	-	-	-	1	1	-	-	-			
	Camphene (Liquid above 115°F/46°C)	Liquid above 115°F (46°C)	1	-	-	X	X	-	-	-	-	-	1	X	-	-	-	-	-	-	-	-	-			
	Cane Sugar Liquors	In Water	1	1	-	1	2	1	2	2	1	2	-	1	1	-	1	1	1	1	1	2	1			
MINING	Caproic Acid	Colorless or Yellow Liquid	1	1	1	1	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-			
	Caprolactam	White Flakes	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-			
OILFIELD	Caprolactam, Molten (Above 156°F/69°C)	Liquid	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-			
	Caprylic Acid (Octanoic Acid)	Colorless, Oily Liquid	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-			
PETROLEUM	Carbamates	Crystals	1	1	-	-	X	X	X	X	X	X	2	X	-	-	-	-	-	-	-	-	-			
	Carbolic Acid	Liquid above 109°F (43°C)	1	2	2	2	2	X	X	X	X	2	1	X	1	X	X	X	1	1	2	X	-			
	Carbolic Acid (Phenol)	White or Pink Crystals	1	2	-	2	2	X	X	X	X	2	1	X	1	X	X	X	1	1	2	X	-			
PRESSURE WASH & WASHDOWN	Carbolic Acid (Phenol, 82-95% in Creosols)	Liquid	1	2	-	-	2	X	X	X	X	2	2	X	1	X	X	X	1	1	2	X	-			
	Carbon Dioxide (Dry)	Gas	1	1	-	-	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1			
STEAM	Carbon Dioxide (Wet)	Gas with Water Vapor	1	1	1	-	2	1	2	2	1	2	1	1	-	-	1	1	1	1	1	1	1			
	Carbon Disulfide	Clear to Faint Yellow Liquid	1	2	1	-	X	2	X	X	X	X	1	X	2	1	X	2	1	1	2	2	X			
WATER	Carbon Monoxide	Gas	1	2	1	-	1	2	X	X	2	X	1	1	-	-	1	1	1	1	1	1	1			
	Carbon Tetrachloride (Pyrene)	Colorless Liquid	1	2	X	X	X	X	X	X	X	X	1	X	X	X	X	X	2	2	X	2	X			
	Carbonic Acid	Liquid	1	1	1	1	1	1	1	1	1	1	1	1	1	-	X	X	1	1	2	X	1			
	Carbonyl Chloride (Phosgene)	Gas/Liquid	1	X	X	X	X	X	X	X	X	1	1	X	-	2	-	-	-	-	-	-	-			
COUPLINGS & CLAMPS	Casein (White amorphous solid)	In Concentrated Acid	1	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-			
	Castor Oil	Pale Yellow or Colorless Liquid	1	1	-	-	-	1	X	X	1	2	1	1	1	-	1	1	1	1	1	1	1			
CHEMICAL RESISTANCE TABLE	Caustic Potash, Dry (Potassium Hydroxide)	White Pellets or Flakes	1	1	-	-	2	X	2	1	2	1	1	1	1	X	X	-	-	-	-	-	-			
	Caustic Potash, Liquid (up to 45%)	Solution in Water	1	1	1	1	2	2	2	2	-	1	2	-	1	1	1	-	-	-	-	-	-			
	Caustic Soda, Dry (Sodium Hydroxide)	White Beads or Pellets	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-			
PROPER HOSE SELECTION	Caustic Soda, Liquid (up to 73%)	Solution in Water	1	2	-	1	2	X	1	1	2	2	X	1	1	2	X	-	-	-	-	-	-			
	Cellosolve Acetate (Eg Ethyl Ether Acetate)	Colorless Liquid	1	1	-	-	2	X	-	-	-	-	X	-	X	-	1	1	1	1	-	-	1			
	Cellosolve Butyl (Eg Butyl Ether)	Colorless Liquid	1	1	-	-	2	X	-	-	-	-	X	-	1	-	1	1	1	1	-	-	1			
HOSE FINDER	Cellulose	Solid, Many Forms	1	1	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-			
	Cement, Portland	Gray Powder	1	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-			
	China-Wood Oil (Tung Oil)	Yellow Oil	1	2	-	X	X	2	X	X	X	X	1	2	-	-	2	1	1	1	1	1	-			



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		Chem Master™ XTreme™ FEP	Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master																	
		T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene
Chemical	Form (at room temperature unless otherwise stated)	FEP	Gatran™	UHMWPE	Sanitron™	EPDM	NBR	SBR	NR	Chloroprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC						
Chlordane	Colorless Viscous Liquid	1	1	-	-	X	X	-	-	X	-	1	X	-	1	2	-	-	-	-	-	
Chlorinated Napthalene (Chloronapthalene)	Oily Liquid to Solid	1	-	-	-	X	X	X	X	X	X	1	X	-	-	-	-	-	-	-	-	
Chlorinated Solvents (ie Tetrchloroethane)	Colorless Liquid	1	X	X	X	X	-	X	X	-	X	1	X	X	1	X	-	-	-	-	-	
Chlorine	Gas	NO HOSE AVAILABLE															-	-	-	-	-	-
Chlorine Liquid (Liquid @ 210PSIG @ 120°F/(38°C))	Clear Amber Liquid	1	-	-	-	X	-	-	-	-	-	1	-	-	X	X	-	-	-	-	-	
Chlorine Trifluoride	Pale Green Liquid	1	-	-	-	X	-	-	-	-	-	1	-	-	-	X	-	-	-	-	-	
Chlorine Water (.03%/300PPM Chlorine)	Clear, Yellowish Liquid	1	X	1	-	X	-	-	-	-	-	1	-	-	-	-	-	X	X	-	1	
Chloroacetic Acid (Monochloroacetic Acid)	Powder or White Crystals	1	1	X	X	X	X	X	X	X	X	1	2	-	-	-	-	-	-	-	-	
Chloroacetic Acid (Under 100°F/38°C)	Solid	1	1	1	X	X	X	X	X	X	X	1	2	-	-	-	-	-	-	-	-	
Chloroacetic Acid Solution	In Water, Alcohol, Ether	1	1	X	1	2	-	-	-	-	-	-	-	-	X	-	X	X	X	-	2	
Chloroacetone	Colorless Liquid	-	-	-	-	1	-	-	-	-	-	X	-	X	-	-	-	-	-	-	-	
Chloroacetyl Chloride	Water White Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	
Chloroaniline	Amber Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Phenyl Chloride) (Monochlorobenzene)	Clear Liquid	1	2	-	X	X	X	X	X	X	X	1	X	X	X	X	1	1	1	1	1	
Chlorobromomethane	Clear Liquid	1	2	X	X	X	X	X	X	X	X	X	X	X	X	X	1	1	1	-	1	
Chlorodifluoromethane (Freon 22)	Gas	SPECIAL HOSE REQUIRED															-	-	-	-	-	-
Chloroethane (Ethylene Dichloride)	Colorless Liquid	1	2	2	X	X	X	X	X	X	X	1	X	X	X	X	-	-	-	-	-	
Chloroform	Colorless Liquid	1	2	2	X	X	X	X	X	X	X	1	X	X	2	X	1	1	1	1	1	
Chloronapthalene (Chlorinated Napthalene)	Oily Liquid to Solid	1	-	-	-	X	X	X	X	X	X	1	X	X	-	-	-	-	-	-	-	
Chloropentane (n-amyl chloride)	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	-	-	X	-	X	-	1	1	-	X	
Chlorophenol	In Benzene, Alcohol, Ether	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloropicrin Mixture	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	
Chloropropylene Oxide (Epichlorohydrin)	Volatile Liquid	1	2	-	X	X	-	-	-	-	-	X	-	-	-	-	1	-	-	-	1	
Chlorosulfonic Acid	Colorless to Light Yellow Liquid	NO HOSE AVAILABLE															-	-	-	-	-	-
Chloroethene (TM for chlorinated solvents)	Colorless Liquid	1	1	X	-	-	X	-	-	X	-	2	-	-	-	-	-	1	1	-	1	
Chlorotoluene	Colorless Liquid	1	-	-	X	X	X	X	X	X	X	1	X	X	-	X	1	1	1	1	-	
Clorox	Colorless Liquid	1	2	1	-	-	-	2	2	2	2	-	2	1	1	1	-	2	1	-	X	
Chocolate Syrup	Liquid	-	-	-	1	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	
Chrome Alum (Chromium Potassium Sulfate)	In Water	1	1	-	-	1	1	1	1	1	1	1	1	-	1	1	-	-	-	-	1	
Chromic Acid (100%)	Dark Red Crystals	1	X	2	-	-	-	-	-	-	-	1	-	-	-	X	X	X	X	X	-	
Chromic Acid (25% Solution or less)	In Water	1	1	1	1	2	X	X	X	X	X	1	2	1	X	X	X	X	2	X	1	
Chromic Acid (50% Solution with water)	In Water	1	1	1	1	2	X	X	X	X	X	1	2	1	X	X	X	X	2	X	1	
Chromic Acid (Chromium Trioxide)	Purplish-Red Crystals	1	X	2	-	-	-	-	-	-	-	1	-	-	-	X	X	X	2	X	1	
Chromic Chloride	In Water	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	
Chromium Trioxide (Chromic Acid)	Purplish-Red Crystals	1	X	2	-	-	-	-	-	-	-	1	-	-	-	X	X	X	2	X	1	
Cider	Liquid	1	-	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	
Cinene (Dipentene)	Colorless Liquid	1	2	-	X	X	X	X	X	-	-	1	-	-	-	-	-	-	-	-	-	
Citgo FR Fuels	Liquid	1	1	-	-	1	X	-	-	-	1	-	-	-	-	2	-	-	-	-	-	

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AGRICULTURE			AIR BREATHING	AIR DUCT	AIR & MULTI-PURPOSE	CHEMICAL	DATA CENTER	ENGINE & MARINE	FOOD & BEVERAGE	MATERIAL HANDLING	MINING	OILFIELD	PETROLEUM	PRESSURE WASH & WASHDOWN	STEAM	WATER	COUPLINGS & CLAMPS	CHEMICAL RESISTANCE TABLE	PROPER HOSE SELECTION	HOSE FINDER																			
																					Chem Master™ XTreme™ FEP	Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master															
																					T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum
	Chemical	Form (at room temperature unless otherwise stated)	FEP	Gafron™	UHMWPE	Sanitron™	EPDM	NBR	SBR	NR	Chloroprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene																
	Citric Acid Solution	In Water	1	1	1	1	1	X	2	2	1	2	1	1	-	1	1	X	X	1	1	X	2																
	Coal Gas (Coke Oven Gas, Max 120°F/49°C)	Gas	1	-	-	X	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-																
	Coal Tar	Black, Viscous Liquid	1	-	-	X	X	2	X	X	2	X	1	X	2	X	X	1	1	1	1	1	-																
	Coal Tar Pitch (Roofing)	Liquid above 212°F (100°C)	1	-	-	X	X	2	X	X	2	X	1	2	2	-	X	-	-	-	-	-	-																
	Cobalt Nickel Plating Solution	Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	2	-	-	-																
	Cocoa Butter (Theobroma Oil)	Liquid above 95°F (35°C)	1	2	2	2	-	2	X	X	2	-	-	-	-	-	-	1	1	1	-	-	-																
	Coconut Oil	Liquid above 77°F (25°C)	1	-	-	X	2	1	X	X	1	2	1	2	-	1	2	-	-	-	-	-	-																
	Cod Liver Oil	Pale Yellow Liquid	1	1	-	2	2	X	X	X	X	2	1	X	-	-	-	1	1	1	1	1	-																
	Coke Oven Gas (Under 300°F/149°C)	Gas	1	1	-	X	X	X	X	X	X	X	1	2	-	-	-	1	1	1	2	-	1																
	Copper Arsenate (Cupric Arsenate)	In Dilute Acid	1	1	-	-	-	-	2	2	-	-	1	2	-	-	-	1	1	1	-	-	-																
	Copper Chloride (Cupric Chloride)	In Water	1	1	-	-	-	2	2	2	2	2	1	2	2	X	1	X	X	1	-	X	1																
	Copper Cyanide (Cupric Cyanide)	In Dilute Acids or Alkalies	1	1	-	-	2	2	2	2	2	2	1	2	-	-	1	-	1	1	-	X	1																
	Copper Nitrate (Cupric Nitrate)	In Water	1	1	-	-	1	1	2	2	1	1	1	1	1	-	1	X	1	1	-	X	1																
	Copper Sulfate (Cupric Sulfate)	In Water	1	1	-	-	2	1	2	2	1	2	1	1	1	X	1	X	1	1	X	X	1																
	Copper Sulfide (Soluble in Nitric Acid)	In Nitric Acid	1	-	-	-	-	1	-	X	-	1	1	1	-	-	-	-	-	-	-	-	-																
	Corn Oil	Pale Yellow Liquid	1	2	-	2	2	X	X	2	2	1	X	2	-	1	1	1	1	1	1	1	X																
	Corn Syrup (Glucose Syrup)	Clear Liquid	1	2	-	1	2	2	2	2	2	2	2	2	-	-	-	1	1	1	1	-	-																
	Cottonseed Oil	Liquid, Several Colors	1	1	-	2	2	2	-	-	1	-	1	2	2	-	-	1	1	1	1	1	1																
	Creosote (high Naphthalene/Anthracene)	Liquid	X	2	X	X	-	2	X	X	X	2	1	X	-	-	X	2	1	1	1	X	2																
	Cresol (Methyl Phenol)	Liquid above 95°F (35°C)	1	2	-	-	-	X	X	X	X	2	1	X	1	X	-	2	1	1	1	-	2																
	Cresylic Acid	Liquid	1	-	-	-	X	X	X	X	X	1	X	-	X	-	-	-	-	-	-	-	-																
	Crotonic Acid (Methylacrylic Acid)	White Crystalline Solid	1	1	1	1	2	2	X	X	-	1	1	-	1	X	-	1	X	-	-	-	-																
	Crude Oil (Crude Petroleum Oil)	Liquid	1	1	-	X	X	1	X	X	2	X	1	2	2	-	1	1	1	1	1	1	1																
	Crude Wax	Liquid above 200°F (93°C)	1	2	-	-	-	2	-	-	-	2	1	-	-	-	1	1	1	1	-	1	1																
	Cryolite (Greeland Spar)	In Sulfuric Acid	1	2	-	-	X	1	X	X	2	X	1	X	-	-	-	1	1	1	-	1	X																
	Cumene (Isopropyl Benzene)	Colorless Liquid	1	2	-	X	-	-	-	-	-	-	1	-	2	-	-	-	-	-	-	-	-																
	Cupric Arsenate (Copper Arsenate)	In Dilute Acid	1	1	-	-	-	2	2	-	-	1	2	-	-	-	1	1	1	-	-	-	-																
	Cupric Chloride (Copper Chloride)	In Water	1	1	-	-	-	2	2	2	2	2	1	2	2	X	1	X	X	1	-	X	1																
	Cupric Cyanide (Copper Cyanide)	In Dilute Acids or Alkalies	1	1	-	-	2	2	2	2	2	2	1	2	-	-	1	-	1	1	-	X	1																
	Cupric Nitrate (Copper Nitrate)	In Water	1	1	-	-	1	1	2	2	1	1	1	1	1	-	1	X	1	1	-	X	1																
	Cupric Sulfate (Copper Sulfate)	In Water	1	1	-	-	2	1	2	2	1	2	1	1	1	X	1	X	1	1	X	X	1																
	Cutting Oil (Mineral Oil Base)	Liquid	1	2	-	-	X	1	X	X	2	X	1	X	-	-	-	1	1	1	-	1	X																
	Cutting Oil, Sulfur Base	Liquid	2	-	-	-	-	1	-	-	X	-	-	-	-	-	-	1	1	1	-	1	1																
	Cutting Oil, Water Soluble	Liquid	1	-	-	-	-	1	-	-	X	-	-	-	-	-	-	1	1	1	-	1	1																
	Cyanide, Copper (Cupric Cyanide)	In Dilute Acids or Alkalies	1	1	-	-	2	2	2	2	2	2	1	2	-	-	1	-	1	1	-	X	1																
	Cyanide, Mercuric	In Water	1	1	-	-	2	2	2	2	1	2	-	1	-	-	-	-	-	-	X	-	1																
	Cyanide, Potassium	In Water	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-																
	Cyanide, Silver	In Nitric Acid	1	1	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	1																
	Cyanide, Sodium	In Water	1	1	-	-	1	1	1	1	1	1	1	1	1	1	1	2	1	1	X	X	-																
	Cyclohexane	Colorless Liquid	1	2	1	-	X	2	X	X	X	X	1	X	1	1	X	1	1	1	-	1	X																
	Cyclohexanol	Colorless, Oily Liquid	1	2	-	-	X	2	X	X	2	X	1	2	1	-	X	-	-	-	-	-	1																



Contact Denver Product Application for recommendations for chemicals not listed.
Phone: (303) 744-5070
email: fppasupport@gates.com

1 = Preferred - Constant Contact
2 = Acceptable - Intermittent Contact
X = Not Recommended
- = No Data

NOTE: Ratings are for the effect on the polymer only!

		Gates Hose / Polymers															Couplings / Adapters					
		Chem Master™ XTreme™ FEP	Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master																	
Chemical	Form (at room temperature unless otherwise stated)	T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene
Cyclohexanone	Colorless to Yellow Liquid	1	1	-	-	X	X	X	X	X	X	X	X	X	1	X	-	1	1	2	-	X
Cyclohexylamine	Colorless Liquid	-	-	-	-	1	-	X	-	-	1	X	-	-	-	-	-	-	-	-	-	-
Cyclopentane	Colorless Liquid	1	-	-	-	X	2	-	X	2	X	1	X	2	-	-	-	-	-	-	-	-
Cyclopentanol	Colorless Liquid	1	-	-	-	-	2	-	X	-	X	2	X	1	-	-	-	-	-	-	-	-
Cyclopentanone	Water White Liquid	-	-	-	-	-	X	-	X	-	X	X	X	-	-	-	-	-	-	-	-	-
Cymene	Colorless Liquids	1	2	-	-	X	X	X	X	X	X	2	X	2	-	X	1	1	1	1	1	-
Cymene (Isopropyltoluene)	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	1	-	-	1	-	1	1	1	1	1	-
D																						
Decalin (TM for decahydronaphthalene)	Colorless Liquid	1	2	2	X	X	2	X	X	-	X	1	X	2	1	-	-	-	-	-	1	1
Decanal (Decyl Aldehyde)	Colorless to Yellow Liquid	1	-	-	-	-	X	-	X	-	X	X	X	-	-	-	-	-	-	-	-	-
Decanal (Decyl Alcohol)	Colorless, Water White Liquid	1	-	-	-	-	1	-	X	X	X	2	2	1	-	X	-	-	-	-	-	-
Decyl Aldehyde (n-decanal)	Colorless to Yellow Liquid	1	-	-	-	-	X	-	X	-	X	X	X	-	-	-	-	-	-	-	-	-
Deicing Fluid (ethylene or propylene glycol)	Orange Liquid	1	1	1	1	1	1	-	-	1	1	1	2	1	-	1	2	1	1	1	1	1
Denatured Alcohol	Colorless Liquid	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-
Detergent Sol. (Sodium dodecylbenzenesulfonate)	In Water	1	2	1	1	1	1	X	X	2	1	-	1	-	-	1	2	1	1	1	1	1
Developing Solutions (Hypos)	Liquid	1	1	-	-	-	-	2	2	2	2	-	2	-	-	1	-	1	1	-	-	-
Dextran	Brown Liquid	1	X	-	-	X	1	-	-	-	X	-	-	1	1	2	-	-	-	-	-	-
Dextrin (Starch gum)	Yellow or White Powder	1	1	-	-	1	1	-	-	1	X	1	-	-	1	1	-	1	1	-	-	1
Diacetone	Colorless Liquid	1	1	-	-	2	X	X	X	X	2	X	X	1	1	X	1	1	1	-	1	1
Diacetone Alcohol	Colorless Liquid	1	1	-	-	-	X	2	2	-	2	X	2	1	-	X	1	1	1	1	1	1
Diammonium Phosphate	In Water	1	1	-	-	1	1	1	1	1	1	-	1	-	-	1	X	2	1	X	-	1
Diazinon	In Petroleum Solvents	1	-	-	-	1	-	1	1	-	-	1	-	-	-	2	-	-	-	-	-	2
Dibenzyl Ether	Colorless Liquid	1	1	-	-	2	X	X	X	X	2	X	X	X	-	-	1	1	1	1	1	-
Dibutyl Ether	Colorless Liquid	1	1	-	-	-	X	X	X	X	2	X	X	1	-	-	1	1	1	1	1	-
Dibutyl Phthalate	Colorless Oily Liquid	1	1	-	-	1	X	X	X	X	2	2	X	X	-	1	1	1	1	1	1	2
Dibutylamine	Colorless Liquid	1	-	-	X	X	X	X	X	X	X	X	X	X	-	X	-	-	-	-	-	-
Dibutylsebacate	Clear Colorless Liquid	1	1	-	-	X	X	X	X	X	2	1	-	2	-	-	-	-	-	-	1	-
Dichloroacetic Acid	Colorless Liquid	1	-	-	-	-	X	-	2	-	X	X	X	-	-	-	-	-	-	-	-	-
Dichloroaniline	In Alcohol or Benzene	1	-	-	-	X	X	X	-	X	X	2	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene (ortho)	Colorless Liquid	1	2	-	X	X	X	X	X	X	X	1	X	X	1	X	-	1	1	-	1	-
Dichlorobenzene (para)	White Crystals	1	2	-	-	X	X	X	X	X	X	1	X	X	1	X	-	1	1	-	1	-
Dichlorobenzyl Chloride	Colorless Liquid	1	2	-	X	X	X	X	X	X	X	1	X	X	-	X	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	Gas, Liquid-140PSIG @ 100°F (38°C)	SPECIAL HOSE REQUIRED																				
Dichloroethane (Ethylene Dichloride)	Colorless Oily Liquid	1	2	2	X	X	X	X	X	X	2	X	X	X	X	X	-	-	-	-	-	-
Dichloroethyl Ether	Colorless Liquid	1	-	-	-	-	X	-	X	-	X	-	X	-	-	-	-	-	-	-	-	-
Dichloroethylene	Colorless Liquid	1	2	X	-	X	X	X	X	X	X	1	X	-	-	-	-	-	-	-	-	X
Dichloroethylene (Acetylene Dichloride)	Colorless Liquid	1	X	X	X	X	-	X	X	-	X	1	-	X	1	X	-	-	-	-	-	X
Dichloromethane (Methylene Chloride)	Colorless Liquid	1	1	1	X	X	X	X	X	X	X	2	X	X	X	X	1	1	1	-	1	-
Dichloropentane	Light Yellow Liquid	1	-	-	-	X	X	X	X	X	X	1	X	-	-	-	-	-	-	-	-	-
Dichloropropane (Propylene Dichloride)	Colorless Liquid	1	-	-	-	X	X	X	X	X	X	2	X	-	-	-	-	-	-	-	-	-
Dicyclohexylamine	Colorless Liquid	1	-	-	-	X	-	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-
DIDA (Diisodecyl Adipate)	Light Colored Oily Liquid	1	-	-	-	-	X	-	X	-	1	X	X	-	-	-	-	-	-	-	-	-
Diesel Fuel	Liquid	1	2	1	X	X	1	X	X	2	X	-	X	-	1	-	1	1	1	1	1	2

TECHNICAL DATA
AGRICULTURE
AIR BREATHING
AIR DUCT
AIR & MULTI-PURPOSE
CHEMICAL
DATA CENTER
ENGINE & MARINE
FOOD & BEVERAGE
MATERIAL HANDLING
MINING
OILFIELD
PETROLEUM
PRESSURE WASH & WASHDOWN
STEAM
WATER
COUPLINGS & CLAMPS
CHEMICAL RESISTANCE TABLE
PROPER HOSE SELECTION
HOSE FINDER

TECHNICAL DATA	Contact Denver Product Application for recommendations for chemicals not listed. Phone: (303) 744-5070 email: fppasupport@gates.com 1 = Preferred - Constant Contact 2 = Acceptable - Intermittent Contact X = Not Recommended - = No Data NOTE: Ratings are for the effect on the polymer only!		Gates Hose / Polymers														Couplings / Adapters																						
AGRICULTURE			AIR BREATHING	AIR DUCT	AIR & MULTI-PURPOSE	CHEMICAL	DATA CENTER	ENGINE & MARINE	FOOD & BEVERAGE	MATERIAL HANDLING	MINING	OILFIELD	PETROLEUM	PRESSURE WASH & WASHDOWN	STEAM	WATER	COUPLINGS & CLAMPS	CHEMICAL RESISTANCE TABLE	PROPER HOSE SELECTION	HOSE FINDER																			
																					Chem Master™ XTreme™ FEP	Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master															
																					T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum
	Chemical	Form (at room temperature unless otherwise stated)	FEP	Gatron™	UHMWPE	Sanitron™	EPDM	NBR	SBR	NR	Chloroprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene																
	Diethanolamine (20%)	In Water or Alcohol	1	-	-	1	2	2	2	2	X	1	1	2	1	1	2	1	1	1	1	X	-																
	Diethanolamine	Liquid above 83°F (29°C)	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	X	-																
	Diethyl Ether (Ethyl Ether)	Colorless Liquid	1	2	-	1	X	X	X	X	X	2	X	X	1	-	2	2	1	1	1	1	1																
	Diethyl Ketone	Colorless Liquid	1	-	-	-	2	X	-	X	X	2	X	X	-	-	X	-	-	-	-	-	-																
	Diethyl Oxalate	Colorless Oily Liquid	1	-	-	-	X	X	-	X	X	X	-	X	-	-	X	-	-	-	-	-	-																
	Diethyl Phthalate (Ethyl Phthalate)	Water White Liquid	1	1	-	-	-	X	X	X	-	2	-	-	2	-	-	-	1	1	-	1	-																
	Diethyl Sebacate	-	1	1	-	-	-	X	X	X	X	2	2	X	2	-	-	-	1	1	-	1	-																
	Diethyl Sulfate	Colorless Liquid	1	-	-	-	1	X	1	X	1	2	X	X	-	-	-	-	-	-	-	-	-																
	Diethyl Sulfide (Ethyl Sulfide)	Colorless Oily Liquid	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-																
	Diethylacetaldehyde (Ethylbutyraldehyde)	Colorless Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
	Diethylamine	Colorless Liquid	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	1																
	Diethylbenzene	Colorless Liquid	1	1	-	-	X	-	X	X	-	X	1	-	2	-	-	-	-	-	-	-	-																
	Diethylene Dioxide (1,4 Dioxane)	Colorless Liquid	1	1	-	1	2	X	X	X	X	2	X	X	2	1	X	1	1	1	1	1	1																
	Diethylene Ether (Dioxane)	Colorless Liquid	1	1	-	1	2	X	X	X	X	2	X	X	2	1	X	1	1	1	1	1	1																
	Diethylene Glycol (Dihydroxydiethyl Ether)	Colorless Syrupy Liquid	1	1	-	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1																
	Diethylene Glycol Methyl Ether (Methyl Cellosolve)	Colorless Liquid	1	1	-	1	1	-	X	X	-	X	1	X	1	-	-	-	-	-	-	-	-																
	Diethylene Glycol Monobutyl Ether	Colorless Liquid	1	1	-	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-																
	Diethylene Glycol Monobutyl Ether Acetate	Colorless Liquid	1	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
	Diethylene Glycol Monoethyl Ether	Colorless Liquid	1	1	-	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-																
	Diethylene Glycol Monomethyl Ether	Colorless Liquid	1	1	-	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-																
	Diethylene Glycol Monomethyl Ether Acetate	Colorless Liquid	1	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
	Diethylenetriamine	Yellow Liquid	1	1	1	-	1	-	X	-	X	1	X	X	-	-	-	-	-	-	-	-	-																
	Dihydroxyacetone	In Water	1	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
	Dihydroxydiethyl ether (Diethylene glycol)	Colorless Syrupy Liquid	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1																
	Diisobutyl Ketone	Colorless Liquid	1	1	-	1	1	X	X	X	X	2	X	X	2	1	-	-	1	1	-	1	1																
	Diisobutyl Phenol (Octyl Phenol)	White Flakes	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-																
	Diisobutyl Phthalate	Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
	Diisobutylene	Colorless Liquids	1	1	-	X	X	2	X	X	X	X	1	X	2	-	-	-	1	1	-	1	-																
	Diisodecyl Adipate (DIDA)	Light Colored Oily Liquid	1	-	-	-	-	X	-	X	-	1	X	X	-	-	-	-	-	-	-	-	-																
	Diisooctyl Phthalate (DIOP)	Nearly Colorless Liquid	1	-	-	-	1	X	-	X	-	1	X	X	-	-	-	-	-	-	-	-	-																
	Diisopropanolamine	Liquid above 108°F (42°C)	1	-	-	-	-	2	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-																
	Diisopropyl Ketone	Colorless Liquid	1	1	-	1	1	X	X	X	X	2	X	X	-	1	-	-	1	1	-	1	-																
	Diisopropylamine	Colorless Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
	Diisopropylbenzene (meta)	Colorless Liquid	1	2	2	X	X	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-																
	Diisopropylidene Acetone (Pharone)	Yellow Liquid	1	1	-	-	2	X	X	X	X	2	X	X	-	-	-	1	1	1	-	1	-																
	Dilauryl Ether	Liquid above 92°F (33°C)	1	1	-	1	1	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-																
	Dimethyl Acetamide (DMAC)	Colorless Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
	Dimethyl Aniline	Yellow/Brown Oily Liquid	1	1	-	-	X	X	X	X	X	2	1	X	2	-	-	-	-	-	-	1	-																
	Dimethyl Ether	Liquid under Pressure	1	1	1	1	1	X	X	X	X	2	X	X	-	-	-	1	1	1	1	1	-																
	Dimethyl Formamide	Water White Liquid	1	1	-	1	2	-	-	-	-	-	X	-	-	-	-	1	1	1	-	-	1																



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		Chem Master™ XTreme™ FEP	Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master	EPDM	NBR	SBR	NR	Chloroprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene
Chemical	Form (at room temperature unless otherwise stated)	T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G						
Dimethyl Phthalate	Colorless Oily Liquid	1	1	-	1	2	X	X	X	X	2	1	X	1	-	-	-	-	-	-	1	-
Dimethyl Sulfate (Methyl Sulfate)	Colorless Liquid	1	1	-	-	X	X	X	X	X	2	X	X	-	1	1	-	-	-	-	-	-
Dimethyl Sulfide	Colorless Liquid	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Dimethyl Sulfoxide	Colorless Liquid	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Dimethyl Terephthalate	Colorless Crystals	-	-	-	-	-	X	X	-	X	X	1	-	-	-	-	-	-	-	-	-	-
Dimethylamine (DMA)	Liquid @ 70PSIG @ 120°F (49°C)	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylaminoethanol (Dimethylethanolamine)	Colorless Liquid	1	1	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylaminomethyl Phenol (DMP)	Dark Red Liquid	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Dimethylbenzene (DMB)	Colorless Liquid	1	X	X	X	X	X	X	X	X	X	1	X	X	X	X	-	-	-	-	-	-
Dimethylcarbinol (isopropyl alcohol)	Colorless Liquid	1	1	1	1	1	1	2	2	2	1	1	2	1	1	2	1	1	1	1	2	1
Dimethylcyclohexylamine	Water White Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylformamide (DMF)	Water White Liquid	1	2	-	-	-	-	-	-	-	-	X	-	-	-	-	1	1	1	-	-	1
Dimethylketone (Acetone)	Colorless Liquid	1	1	X	1	2	X	X	X	X	2	X	X	1	1	X	1	1	1	1	1	2
Dimethylphenol (Xylenol)	White Solid, Liquid @ 68°F (20°C)	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Dinitrobenzene (Soluble in Chloroform)	In Chloroform	1	2	-	X	X	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Dinitrogen Tetroxide (Nitrogen Dioxide)	Liquid @ 50PSIG @ 120°F (49°C)	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Dinitrotoluene, Solid	In Alcohol or Ether	1	1	1	1	1	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-
Diethyl Adipate di (2-ethylhexyl) adipate	Light Colored Oily Liquid	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Diethyl Phosphite, di-(2-ethylhexyl) phosphite	Colorless Liquid	1	1	-	1	X	-	-	-	-	-	1	-	-	-	X	-	-	-	-	-	-
Diethyl Phthalate, di-(2-ethylhexyl) phthalate	Light Colored Liquid	1	1	-	1	X	X	X	X	X	X	1	X	2	-	-	1	1	1	1	1	X
Diethyl Sebacate, di-(2-ethylhexyl) sebacate	Pale Straw Colored Liquid	1	1	-	1	-	X	X	X	X	2	1	X	X	-	-	-	-	-	-	-	-
Diethylamine di-(2-ethylhexyl)amine	Water White Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DIOP (Diisooctyl Phthalate)	Nearly Colorless Liquid	1	-	-	-	1	X	-	X	-	1	X	X	-	-	-	-	-	-	-	-	-
Dioxane (Diethylene Dioxide)	Colorless Liquid	1	1	-	1	2	X	X	X	X	2	X	X	2	1	X	1	1	1	1	1	1
Dioxane (Diethylene Ether)	Colorless Liquid	1	1	-	1	2	X	X	X	X	2	X	X	2	1	X	1	1	1	1	1	1
Dioxolane (Ethylene Glycol Formal)	Water White Liquid	1	-	-	-	-	-	-	-	-	-	X	-	-	-	-	1	1	1	1	1	-
Dipentene (Cinene, Limonene)	Colorless Liquid	1	2	-	X	X	X	X	X	-	-	1	-	-	1	-	1	1	1	1	1	-
Diphenyl Phthalate	Yellow White Powder	1	1	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Dipropyl Ketone	Colorless Liquid	1	1	-	1	1	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-
Dipropylamine	Water White Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dipropylene Glycol	Colorless Liquid	1	1	1	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Dipropylene Glycol Monomethyl Ether (DPM)	Colorless Liquid	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dirco Oils	Liquid	1	1	-	-	X	1	-	-	-	X	-	-	-	1	-	1	1	1	1	1	-
Disodium Phosphate (DSP soluble in H2O)	Colorless or White Powder	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Disodium Phosphate Solution	In Water	1	1	1	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Distillate Fuel Oil	Clear to Brown Liquid	1	2	-	X	X	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Divinylbenzene (20-25% or 50-60% Grades)	Water White to Straw Liquid	1	2	-	X	X	X	X	X	-	X	1	-	-	-	-	-	-	-	-	-	-
DMA (Dimethylamine)	Gas	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DMAC (Dimethyl Acetamide)	Colorless Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DMB (Dimethylbenzene)	Colorless Liquid	1	X	X	X	X	X	X	X	X	X	1	X	X	X	X	-	-	-	-	-	-

TECHNICAL DATA
AGRICULTURE
AIR BREATHING
AIR DUCT
AIR & MULTI-PURPOSE
CHEMICAL
DATA CENTER
ENGINE & MARINE
FOOD & BEVERAGE
MATERIAL HANDLING
MINING
OILFIELD
PETROLEUM
PRESSURE WASH & WASHDOWN
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CHEMICAL RESISTANCE TABLE
PROPER HOSE SELECTION
HOSE FINDER

TECHNICAL DATA	Contact Denver Product Application for recommendations for chemicals not listed. Phone: (303) 744-5070 email: fppasupport@gates.com		Gates Hose / Polymers														Couplings / Adapters								
AGRICULTURE			AIR BREATHING	Chem Master™ XTreme™ FEP	Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master	EPDM	NBR	SBR	NR	Chloroprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene	
																									AIR DUCT
AIR & MULTI-PURPOSE	NOTE: Ratings are for the effect on the polymer only!		Chemical	Form (at room temperature unless otherwise stated)	T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G						
CHEMICAL	DMF (Dimethylformamide)	Water White Liquid	1	2	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	1	1	1	-	-	1
DATA CENTER	DMP (Dimethylaminomethyl phenol)	Dark Red Liquid	1	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
	Dodecylbenzene (Detergent Alkylate)	Liquid	1	2	-	X	X	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
	Dodecylphenol	Straw Colored Liquid	1	1	-	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
ENGINE & MARINE	Dolomite	Gray, Pink or White Powder	-	-	-	-	2	1	-	-	1	-	1	1	1	-	-	-	-	-	-	-	-	-	
FOOD & BEVERAGE	Dowtherm A (Biphenyl and Biphenyl Ether Mix.)	Liquid	1	1	-	1	1	X	X	X	X	X	1	X	X	-	X	1	1	1	1	1	-		
	Dowtherm SR-I (Ethylene Glycol)	Liquid	1	1	1	1	1	1	-	-	-	1	1	-	1	-	-	2	1	1	1	1	1		
	DPM (Dipropylene Glycol Monomethyl Ether)	Colorless Liquid	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MATERIAL HANDLING	Duro Oils	Liquid	1	1	-	-	X	1	-	-	-	X	-	-	-	1	2	1	1	1	1	1	-		
	E																								
	EDB (Ethylene Dibromide)	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-		
MINING	EDTA (Ethylenediaminetetraacetic Acid)	Colorless Crystals	1	1	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-		
	Emulsion (Oil in Water)	Water is Continuous Phase	1	1	1	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-		
	Enamels	Liquid	1	1	-	X	X	-	-	-	-	-	1	-	-	1	2	-	-	-	-	1	-		
OILFIELD	Epichlorohydrin (Chloropropylene Oxide)	Volatile Liquid	1	2	-	X	X	-	-	-	-	-	X	-	-	-	-	1	-	-	-	-	1		
	Epoxy Resin	Solid Pellet	-	-	-	-	1	-	-	-	1	2	X	-	-	-	-	-	-	-	-	-	-		
	Essential Oils	Liquid	1	2	-	X	X	1	X	X	2	-	1	-	-	-	2	1	1	1	1	1	-		
PETROLEUM	Ethanol (Ethyl Alcohol)	Colorless Liquid	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	1		
	Ethanolamine (Aminoethanol)	Colorless Viscous Liquid	1	2	1	1	2	2	2	2	2	2	X	X	1	1	2	1	1	1	-	1	-		
	Ethers	Liquids	1	1	1	1	1	2	X	X	X	2	X	2	1	-	2	1	1	1	1	1	2		
PRESSURE WASH & WASHDOWN	Ethyl Acetate (Acetic Ether)	Colorless Liquid	1	1	1	2	2	X	X	X	X	2	X	X	2	1	X	1	1	1	1	1	2		
	Ethyl Acetoacetate	Colorless Liquid	1	1	-	-	2	X	X	X	X	2	X	X	1	-	-	1	1	1	1	1	X		
	Ethyl Acrylate	Colorless Liquid	1	2	-	2	2	X	X	X	X	X	X	X	2	-	X	1	1	1	-	-	X		
STEAM	Ethyl Acrylate, Inhibited	Colorless Liquid	1	2	-	2	2	X	X	X	X	X	X	X	2	-	X	1	1	1	-	-	X		
	Ethyl Alcohol (Ethanol)	Colorless Liquid	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	1		
	Ethyl Aluminum Dichloride (Above 90°F/32°C)	Clear Yellow Liquid	1	-	-	-	-	X	-	X	-	X	2	X	-	-	-	-	-	-	-	-	-		
WATER	Ethyl Bromide	Colorless Liquid	1	2	-	-	X	X	X	X	X	1	X	2	1	X	-	1	1	-	1	-	-		
	Ethyl Butyl Ether (Butyl Ethyl Ether)	Liquid	1	-	-	-	-	2	-	X	-	X	-	2	-	-	-	-	-	-	-	-	-		
	Ethyl Butyrate	Colorless Liquid	1	1	-	-	-	X	X	X	X	2	-	-	-	-	-	1	1	1	-	-	-		
COUPLINGS & CLAMPS	Ethyl Chloride	Compressed Liquid	1	2	2	-	X	X	X	X	X	1	X	X	-	X	2	1	1	1	1	2	X		
	Ethyl Chloroformate (Ethyl Chlorocarbonate)	Water White Liquid	1	-	-	-	X	X	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-		
	Ethyl Ether (Diethyl Ether)	Colorless Liquid	1	2	X	1	X	X	X	X	X	2	X	X	1	2	X	2	1	1	1	1	1		
CHEMICAL RESISTANCE TABLE	Ethyl Ether Acetate (Cellosolve Acetate)	Colorless Liquid	1	1	-	-	2	X	-	-	-	-	X	-	1	-	1	1	1	-	-	1	-		
	Ethyl Formate	Water White Liquid	1	-	-	-	2	X	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-		
	Ethyl Iodide	Colorless Liquid	1	-	-	-	X	X	-	X	X	2	X	X	-	-	-	-	-	-	-	-	-		
PROPER HOSE SELECTION	Ethyl Isobutyrate	Colorless Liquid	1	-	-	-	X	X	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-		
	Ethyl Mercaptan (Ethanethiol)	Colorless Pungent Liquid	1	1	-	-	X	X	X	X	X	1	X	-	-	X	2	-	-	-	-	-	-		
	Ethyl Methyl Ketone (MEK)	Colorless Liquid	1	1	1	1	2	X	-	-	X	-	X	X	2	1	X	-	-	-	-	-	-		
HOSE FINDER	Ethyl Oleate	Light Yellowish Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Ethyl Oxalate	Colorless Liquid	1	1	-	-	2	X	2	2	X	2	1	-	1	-	-	-	-	-	-	-	-		
	Ethyl Pentachlorobenzene	-	1	1	-	-	X	X	X	X	X	1	X	-	-	-	2	1	1	-	1	-	-		
HOSE FINDER	Ethyl Phthalate (Diethyl phthalate)	Water White Liquid	1	1	-	-	-	X	X	X	-	2	-	-	2	-	-	-	1	1	-	1	-		
	Ethyl Propionate	Water White Liquid	1	-	-	-	X	X	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-		
	Ethyl Propyl Ketone (3-Hexanone)	Colorless Liquid	1	-	-	-	-	X	-	X	-	2	X	X	-	-	-	-	-	-	-	-	-		



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		Chem Master™ XTreme™ FEP	Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master																	
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NOTE: Ratings are for the effect on the polymer only!																						
Chemical	Form (at room temperature unless otherwise stated)	T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene
Ethyl Silicate	Colorless Liquid	1	1	-	-	2	1	2	2	1	-	1	-	1	-	-	1	1	1	1	1	-
Ethyl Sulfide (Diethyl Sulfide)	Colorless Oily Liquid	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Ethylamine	Colorless Liquid or Gas	1	2	-	1	1	X	X	X	X	2	X	X	1	-	-	-	1	1	-	1	-
Ethylbenzene	Colorless Liquid	1	2	-	-	X	X	X	X	X	X	1	X	2	-	-	1	1	1	-	1	-
Ethylbutanol (2-Ethylbutyl Alcohol)	Colorless Liquid	1	1	1	1	1	1	-	-	1	1	1	2	1	1	1	-	-	-	-	-	-
Ethylbutyl Alcohol (Ethylbutanol)	Colorless Liquid	1	1	1	1	1	1	-	-	1	1	1	2	1	1	1	-	-	-	-	-	-
Ethylbutyl Amine	Water White Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbutyl Ketone	Clear Liquid	1	1	-	-	1	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
Ethylbutyraldehyde (Diethylacetaldehyde)	Colorless Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylcellulose Granular Solid	Granular Solid	1	1	-	-	-	-	-	1	-	-	-	-	1	-	-	1	1	1	-	1	-
Ethylene Chlorohydrin	Colorless Liquid	1	1	-	2	X	X	-	-	X	2	1	-	-	X	X	-	-	-	-	-	-
Ethylene Cyanohydrin	Straw Colored Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (EDB)	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	
Ethylene Dichloride (Chloroethane)	Colorless Liquid	1	2	2	X	X	X	X	X	X	X	2	X	X	X	X	-	-	-	-	-	-
Ethylene Glycol	Colorless Liquid	1	1	1	1	1	1	-	-	1	1	1	2	1	-	1	2	1	1	1	1	1
Ethylene Glycol Formal (Dioxolane)	Water White Liquid	1	-	-	-	-	-	-	-	-	-	X	-	-	-	-	1	1	1	1	1	-
Ethylene Glycol Monoethylether	Colorless Liquid	1	1	-	1	1	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Glycol Monoethylether Acetate	Colorless Liquid	1	1	-	1	1	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Glycol Monomethyl Ether	Colorless Liquid	1	1	-	1	2	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Glycol N-Butyl Ether	Colorless Liquid	1	1	-	1	1	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylenediamine	Colorless Liquid	1	2	-	-	2	1	-	-	-	2	X	-	-	-	-	1	1	-	-	1	1
Ethylenediaminetetraacetic acid (EDTA)	Colorless Crystals	1	1	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
Ethylhexaldehyde	Colorless Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylhexanediol	Colorless Liquid	1	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylhexanol (2-ethylhexyl alcohol)	Colorless Liquid	1	1	1	1	1	1	1	1	-	1	1	-	1	1	1	-	-	-	-	-	
Ethylhexoic Acid	Liquid	1	1	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylhexyl Acetate	Water White Liquid	1	1	-	-	1	X	-	-	X	-	X	X	-	1	-	-	-	-	-	-	
Ethylhexyl Acrylate	Liquid	1	2	-	2	-	X	-	-	-	-	X	-	-	-	X	-	-	-	-	-	
Ethylhexyl Alcohol (Ethylhexanol)	Colorless Liquid	1	1	1	1	1	1	1	1	-	1	1	-	1	1	1	-	-	-	-	-	
F																						
Fatty Acid	Solid, Semisolid or Liquid	1	2	2	2	2	2	X	X	2	2	2	X	2	-	2	2	1	1	1	2	1
Fatty Alcohol, Blend	C8-II Liquids, > C11 Solids	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	-	-	-	-	-	
Fatty Petroleum Alcohol	C11 or less are Liquids	1	1	1	1	1	1	-	-	-	1	1	-	1	1	-	-	-	-	-	-	
Ferric Bromide	Red Crystals	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ferric Chloride	Black-Brown Solid	1	1	-	-	-	2	-	1	2	1	1	2	1	1	1	X	X	X	X	X	
Ferric Chloride Solution	Liquid	1	1	-	-	-	2	-	1	2	1	1	2	1	1	1	X	X	X	X	X	
Ferric Nitrate	Violet Crystals	1	1	-	-	-	2	1	2	2	-	2	1	-	-	-	X	1	1	-	-	
Ferric Nitrate Solution	Liquid	1	-	-	-	1	1	-	1	1	1	1	1	-	1	-	X	1	1	-	-	
Ferric Sulfate	Yellow Crystals or Gray Powder	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	X	1	1	X	X	
Ferric Sulfate Solution	Liquid	1	1	1	-	2	2	2	-	2	2	1	2	1	-	1	X	1	1	X	X	
Ferrous Acetate Solution	Liquid in H2O or Alcohol	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
Ferrous Chloride	Greenish-White Crystals	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	X	1	2	-	2	
Ferrous Chloride, Solution	Liquid	1	1	-	-	-	-	-	-	-	1	1	2	1	-	1	X	1	2	-	2	
Ferrous Nitrate	-	1	1	-	-	2	2	-	-	2	2	-	2	-	-	2	-	1	1	-	-	
Ferrous Sulfate Solution	Liquid	1	1	1	-	2	2	2	-	2	2	1	2	1	-	1	X	1	1	X	X	

TECHNICAL DATA
AGRICULTURE
AIR BREATHING
AIR DUCT
AIR & MULTI-PURPOSE
CHEMICAL
DATA CENTER
ENGINE & MARINE
FOOD & BEVERAGE
MATERIAL HANDLING
MINING
OILFIELD
PETROLEUM
PRESSURE WASH & WASHDOWN
STEAM
WATER
COUPLINGS & CLAMPS
CHEMICAL RESISTANCE TABLE
PROPER HOSE SELECTION
HOSE FINDER

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AGRICULTURE			AIR BREATHING	AIR DUCT	AIR & MULTI-PURPOSE	CHEMICAL	DATA CENTER	ENGINE & MARINE	FOOD & BEVERAGE	MATERIAL HANDLING	MINING	OILFIELD	PETROLEUM	PRESSURE WASH & WASHDOWN	STEAM	WATER	COUPLINGS & CLAMPS	CHEMICAL RESISTANCE TABLE	PROPER HOSE SELECTION	HOSE FINDER																			
																					Chem Master™ XTreme™ FEP	Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master															
																					T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum
	Chemical	Form (at room temperature unless otherwise stated)	FEP	Gator™	UHMWPE	Sanitron™	EPDM	NBR	SBR	NR	Chloroprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene																
	Fertilizer (Liquid Manure)	Liquid	1	1	1	1	1	1	1	1	1	1	1	1	-	1	2	1	1	1	1	1	1																
	Finishing Oil	Liquid	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
	Fire-Resistant Hydra-Fluid (Texaco)	Liquid	1	1	-	-	X	1	-	-	-	X	-	-	-	-	-	1	1	1	1	1	-																
	Firtec 290, MF	Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
	Fish Oil	Liquid	1	-	1	X	X	1	-	-	2	-	1	-	-	-	-	-	-	-	-	-	-																
	Fixing Solution (Photo)	Liquid	1	1	-	-	-	-	2	2	2	2	-	2	-	1	1	-	1	1	-	-	1																
	Flint	Gray, Brownish, Black	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-																
	Floor Wax (Temperature Dependent)	Varies	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
	Fluoboric Acid (48% Purity)	Colorless Liquid	1	1	1	1	2	-	2	2	2	-	-	2	1	-	X	-	1	1	-	-	1																
	Fluoboric Acid (up to 48%)	Colorless Liquid	1	1	-	-	1	-	2	2	2	-	1	2	1	-	X	-	1	1	-	-	1																
	Fluorine	Pale Yellow Gas	NO HOSE AVAILABLE																-	-	-	-	-	-															
	Fluorine (Liquid)	Yellow Liquid	NO HOSE AVAILABLE																-	-	-	-	-	-															
	Fluosilicic Acid (50%)	Colorless Liquid	1	1	1	1	2	X	-	-	2	X	-	2	1	X	X	-	-	-	1	-	1																
	Formaldehyde	Gas	-	1	-	-	1	-	-	-	-	-	1	-	-	1	-	X	2	1	2	1	-																
	Formaldehyde Solution (up to 50%)	Liquid	1	2	1	1	1	2	X	X	2	2	1	2	1	1	1	X	2	1	2	1	-																
	Formalin (37-50% HCHO with 15% MeOH)	Liquid	1	1	-	1	1	2	X	X	2	2	1	2	1	1	1	-	-	-	-	-	-																
	Formamide	Colorless Oily Liquid	1	1	-	-	-	-	X	X	-	-	-	-	-	X	-	-	-	-	-	-	-																
	Formic Acid	Colorless Liquid (bp 100°C)	1	1	1	1	2	-	X	X	1	2	X	2	1	X	X	X	2	1	-	2	1																
	FR Fluid D	Liquid	1	1	-	-	X	1	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-																
	FR Hydraulic Fluid	Brown Liquid	1	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
	Freon 12 (Dichlorodifluoromethane)	Gas or Liquid	SPECIAL HOSE REQUIRED																-	-	-	-	-	-															
	Freon 13	Gas or Liquid	SPECIAL HOSE REQUIRED																-	-	-	-	-	-															
	Freon 134a (HFC 134a)	Gas or Liquid	SPECIAL HOSE REQUIRED																-	-	-	-	-	-															
	Freon 22 (Chlorodifluoromethane)	Gas or Liquid	SPECIAL HOSE REQUIRED																-	-	-	-	-	-															
	Freon 23	Clear Liquid	SPECIAL HOSE REQUIRED																-	-	-	-	-	-															
	Fruit Juices	Liquid	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-																
	Fuel Oil (ASTM I-B)	Water White to Brown Liquids	1	2	1	X	X	1	X	X	2	X	1	X	1	1	X	2	2	2	1	1	-																
	Fumaric Acid	Colorless Crystals	1	1	1	1	2	-	2	2	-	-	1	-	-	-	X	-	1	1	-	-	-																
	Fumaric Acid Solution (Allomalaic Acid)	Liquid	1	1	-	-	2	1	2	2	-	-	1	-	-	-	X	-	1	1	-	-	-																
	Furan (Furfuran)	Colorless to Brown Liquid	1	1	1	-	X	X	X	X	X	X	-	-	1	-	X	1	1	1	1	1	-																
	Furfural (Ant Oil)	Colorless to Reddish Brown Liquid	1	1	-	2	X	X	X	X	2	X	2	2	1	-	X	2	1	1	1	1	2																
	Furfural Alcohol	Colorless to Brown Liquid	1	1	2	2	X	X	X	X	2	X	1	2	1	1	X	2	1	1	1	1	2																
	Furfuran (Furan)	Colorless to Brown Liquid	1	1	1	-	X	X	X	X	X	X	-	-	1	-	X	1	1	1	1	1	-																
	Furfuryl Alcohol	Colorless to Reddish Brown Liquid	1	1	-	2	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-																
	Fusel Oil (Amyl Alcohol, Grain Oil)	Colorless Liquid	1	1	1	1	2	2	2	2	2	2	1	2	1	1	1	1	1	1	1	1	-																
	Fyrquard 150, 200	-	1	1	-	-	1	1	-	-	-	1	-	-	-	-	-	1	1	1	1	1	-																
	Fyrquel 15R&D, 220R&D, 550R&D	-	1	1	-	-	1	X	-	-	-	1	-	-	-	-	-	1	-	-	1	-	-																
	Fyrquel 90, 150, 220, 300, 550, 1000	-	1	1	-	-	1	X	-	-	-	1	-	-	-	-	-	1	-	-	1	-	-																
G																																							
	Gallic Acid (3,4,5 Trihydroxybenzoic Acid)	In Alcohol or Glycerol	1	1	1	1	1	X	2	2	X	2	1	-	1	X	X	X	1	1	-	-	1																
	Gallic Acid Solution	In Alcohol Solution	1	1	-	1	-	X	2	2	X	2	1	-	1	X	X	X	1	1	-	-	1																
	Gasohol (Gasoline blended with Ethanol) ¹	Colorless Liquid	1	2	1	X	X	2	X	X	2	X	1	X	-	1	X	2	1	1	1	1	X																



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		Gates Hose / Polymers														Couplings / Adapters						
		Chem Master™ XTreme™ FEP	Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master																	
Chemical	Form (at room temperature unless otherwise stated)	T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene
Gasoline (Oxygenated-Blended With MTBE) ¹	Colorless Liquid	1	2	1	X	X	2	X	X	2	X	1	X	-	1	X	2	1	1	1	1	X
Gasoline (Unleaded Up to 50% Aromatics) ¹	Colorless Liquid	1	2	1	X	X	2	X	X	2	X	1	X	1	1	X	2	1	1	1	1	-
Gasoline (White) ¹	Colorless Liquid	1	2	-	X	X	2	X	X	2	X	1	X	-	1	X	2	1	1	1	1	-
¹ Only use fuel rated hose, except for transfer.																						
Gelatin	Flakes or Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	1	1	-	-	-	-	-	
Glacial Acetic Acid	Clear Colorless Liquid	1	1	1	X	2	-	-	-	X	X	X	-	X	X	X	-	-	-	-	-	
Glacial Methacrylic Acid (GMAA)	White Crystals	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Glauber's Salt (Sodium Sulfate Decahydrate)	Crystals or Powder	1	-	-	-	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	
Gluconic Acid (Commercial 50% Aqueous)	Aqueous Solution	1	-	-	-	-	X	-	X	-	X	-	2	1	-	-	-	-	-	-	-	
Glucose	Crystals to White Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1	1	1	1	
Glucose Solution	Liquid	1	1	-	1	1	1	1	1	1	1	1	1	-	-	1	1	1	1	1	-	
Glue	Varies	1	1	-	-	X	2	X	X	2	X	1	1	-	2	1	2	1	1	1	X	
Glycerine (Glycerol)	Clear Viscous Liquid	1	1	-	1	1	1	1	1	1	1	1	1	1	-	1	2	1	1	1	1	
Glycerol (Glycerine)	Clear Viscous Liquid	1	1	-	1	1	1	1	1	1	1	1	1	1	-	1	2	1	1	1	1	
Glycerol Monolaurate	Liquid above 80°F (27°C)	1	1	1	1	1	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	
Glycol FR Fluids	Liquid	1	-	-	-	1	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
Glycol Slurry	Watery Suspension	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Glycols (ie Ethylene Glycol)	Clear Colorless Liquid	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	
GMAA (Glacial Methacrylic Acid)	White Crystals	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Graphite	Powdered, Flake, Crystals	1	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
Grease	Semi-Solid	1	1	2	2	X	1	X	X	2	X	1	2	-	-	1	1	1	1	1	1	
Grease, Silicone Base	-	1	-	1	-	-	-	-	-	-	-	-	-	-	1	-	1	1	1	1	1	
Green Liquor (Effluent Alkaline Pulping)	Liquid	1	1	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	
Green Sulfate Liquor	Liquid	1	1	1	-	1	2	1	1	1	1	-	1	2	-	-	1	1	1	-	-	
H																						
Halowax (Chlorinated Hydrocarbons)	Oils to Waxy Solid	1	1	1	-	X	X	X	X	X	X	1	X	-	-	-	-	-	-	-	-	
HEA (2-Hydroxyethyl Acrylate)	Liquid	1	1	1	1	X	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
HEA Acid (2-Hydroxyethyl Acrylate)	Liquid	1	1	1	1	X	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	
Hematite (Iron Ore)	Black to Brick Red	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
HEP (2-Hydroxypropyl Acrylate)	Liquid	1	1	1	1	X	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	
Heptachlor (In Xylene)	Liquid	1	2	-	X	X	2	X	X	X	X	1	-	-	1	X	-	-	-	-	-	
Heptanal (Heptaldehyde)	Colorless Oily Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Heptane	Colorless Liquid	1	2	1	X	X	1	X	X	2	X	1	X	1	1	2	1	1	1	1	1	
Heptanedicarboxylic Acid (Azelaic Acid)	Yellowish to White Powder	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
Heptanoic Acid	Clear Oily Liquid	1	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
Heptanol	Colorless Liquid	1	1	1	1	1	1	1	1	1	1	1	1	X	1	1	-	-	-	-	-	
Hexachlorocyclohexane	White to Yellowish Flakes	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachlorocyclopentadiene	Yellow Liquid	1	-	-	X	X	-	X	X	-	X	1	-	-	-	-	-	-	-	-	-	
Hexadecanoic Acid (Palmitic Acid)	White Crystals	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
Hexahydrophthalic Anhydride	Clear Colorless Viscous Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexaldehyde	Colorless Liquid	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	

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	Chemical	Form (at room temperature unless otherwise stated)	FEP	Gatron™	UHMWPE	Sanitron™	EPDM	NBR	SBR	NR	Chloroprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene																
	Hexamethylenediamine, Solution	Colorless Flat Solid Leaflets	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-																
	Hexamethyleneimine	Clear Colorless Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
	Hexane	Colorless Liquid	1	X	1	X	X	1	X	X	-	X	1	-	1	1	X	1	1	1	-	1	-																
	Hexanol (Hexyl Alcohol)	Colorless Liquid	1	1	-	-	X	1	-	-	2	-	1	X	1	-	-	1	1	1	1	2	-																
	Hexanone (Ethyl Propyl Ketone)	Colorless Liquid	1	-	-	-	-	X	-	X	-	2	X	X	-	-	-	-	-	-	-	-	-																
	Hexene	Colorless Liquid	1	-	-	X	X	2	X	X	-	X	1	-	1	-	-	1	1	1	-	1	-																
	Hexyl "Cellosolve" (EG monohexyl ether)	Water White Liquid	1	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-																
	Hexyl Alcohol (Hexanol)	Colorless Liquid	1	1	-	-	X	1	-	-	2	-	1	X	1	-	-	1	1	1	1	2	-																
	Hexyl Methacrylate	Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
	Hexylamine	Water White Liquid	1	-	-	-	-	X	-	X	-	2	X	X	-	-	-	-	-	-	-	-	-																
	Hexylene (1-Hexene)	Colorless Liquid	1	-	-	X	X	2	X	X	-	X	1	-	1	-	-	1	1	1	-	1	-																
	Hexylene Glycol	Colorless Liquid	1	1	1	1	1	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-																
	Honey	Yellow Liquid	1	-	-	-	1	1	-	1	1	-	1	-	-	-	1	-	-	-	-	-	-																
	Houghto-Safe 1055, 1110, 1115, 1120, 1130	Liquid	1	1	-	-	1	X	-	-	-	1	-	-	-	-	-	1	1	1	1	1	-																
	Houghto-Safe 271, 416, 520 & 616, 620	Liquid	1	1	-	-	1	1	-	-	-	1	-	-	-	-	-	1	1	1	1	1	-																
	Houghto-Safe 5046	Liquid	1	1	-	-	X	1	-	-	-	X	-	-	-	-	-	1	1	1	1	1	-																
	Houghto-Safe 625, 640 & 525 (Under 100°F/38°C)	Liquid	1	1	-	-	1	1	-	-	-	1	-	-	-	-	-	1	1	1	1	1	-																
	HPA Acid (2-Hydroxypropyl Acrylate)	Liquid	1	1	1	1	X	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-																
	HPD (Sodium Thiosulfate)	White Powder	1	1	-	-	-	1	1	1	1	1	-	1	1	1	1	X	1	1	2	X	-																
	Hy-Chock Oil	Liquid	1	1	-	-	-	1	-	-	-	-	1	-	-	1	-	1	1	1	-	-	-																
	Hydrocyanic Acid (up to 98%)	Water White Liquid	1	X	-	-	-	-	-	-	-	-	1	-	-	-	-	X	1	1	1	X	-																
	Hydrafluid 760 (Texaco and Houghton)	Liquid	1	1	-	-	X	1	-	-	-	X	1	-	-	1	-	1	1	1	1	1	-																
	Hydrafluid AZR60, A, B, AA, C	Liquid	1	1	-	-	X	1	-	-	-	X	1	-	-	1	-	1	1	1	1	-	-																
	Hydrasol A (Textile Dyeing)	-	1	1	-	-	X	1	-	-	-	X	1	-	-	1	-	1	1	1	1	-	-																
	Hydraulic Fluid (Phosphate Ester Base)	Liquid	1	1	-	-	1	X	-	-	X	1	1	-	-	1	1	1	1	1	-	-	-																
	Hydraulic Fluid (Polyalphaolifin)	Liquid	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1	1	1	1	-																
	Hydraulic Fluid (Std. Petroleum Oils)	Liquid	1	1	-	-	X	1	X	X	2	X	1	2	1	1	1	1	1	1	1	1	-																
	Hydraulic Fluid (Water Glycol Base)	Liquid	1	1	-	-	-	1	2	2	1	1	1	-	-	1	1	1	1	1	1	1	-																
	Hydraulic Fluid HF-18, HF-20	Liquid	1	1	-	-	1	1	-	-	-	1	1	-	-	1	2	1	1	1	1	1	-																
	Hydraulic Fluid HF-31	Liquid	1	1	-	-	X	-	-	-	-	X	-	-	-	1	-	1	1	1	1	1	-																
	Hydrazine	Colorless Fuming Liquid	1	1	-	-	2	X	X	X	X	2	X	X	-	-	X	-	-	-	-	-	-																
	Hydrazine Hydrate	Colorless Fuming Liquid	1	1	-	-	2	X	X	X	X	2	X	X	-	-	X	-	-	-	-	-	-																
	Hydrazine Solution	Liquid	1	1	-	-	2	X	X	X	X	2	X	X	-	-	X	-	-	-	-	-	-																
	Hydro-Drive Oil (Houghton)	Liquid	1	-	-	-	X	1	-	-	-	X	-	-	-	-	2	-	-	-	-	-	-																
	Hydrobromic Acid (62% and less)	Colorless to Yellow Liquid	1	1	1	1	X	X	2	2	X	2	1	2	1	X	X	-	-	-	X	-	-																
	Hydrobromic Acid (to 48%)	Colorless to Yellow Liquid	1	1	1	1	1	X	2	2	X	2	1	2	1	X	X	-	-	-	X	-	-																
	Hydrochloric Acid (15%)	Colorless to Yellow Liquid	1	1	1	1	2	X	2	2	X	2	1	2	1	X	X	X	X	X	X	X	-																
	Hydrochloric Acid (37%)	Colorless to Yellow Liquid	1	1	1	1	X	X	2	2	X	2	1	2	1	X	X	X	X	X	X	X	-																
	Hydrochloric Acid, anhydrous	Colorless Fuming Gas	1	-	-	-	-	-	-	-	-	-	1	-	X	-	-	X	X	X	X	X	-																
	Hydrocyanic Acid (10% Solution with water)	Water White Liquid	1	1	1	-	-	X	2	2	X	-	1	2	X	-	X	X	1	1	1	X	-																
	Hydrocyanic Acid (98% or less)	Water White Liquid below 77°F (25°C)	1	X	-	-	-	-	-	-	-	-	1	-	X	-	X	-	-	-	-	-	-																
	Hydrocyanic Acid (up to 20%)	Water White Liquid	1	1	-	-	1	2	2	2	2	-	1	1	X	-	2	-	-	-	-	-	-																



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		Chem Master™ X-Treme™ FEP	Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

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Chem Master™ XTreme™ FEP			Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master	EPDM	NBR	SBR	NR	Chloroprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene		
AGRICULTURE	1 = Preferred - Constant Contact 2 = Acceptable - Intermittent Contact X = Not Recommended – = No Data		T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G							
AIR BREATHING			Chemical	Form (at room temperature unless otherwise stated)	FEP	Gator™	UHMWPE	Sanitron™																
AIR DUCT	NOTE: Ratings are for the effect on the polymer only!																							
AIR & MULTI-PURPOSE																								
CHEMICAL	Iron Salts	-	1	-	-	-	1	1	-	1	1	1	1	1	-	1	1	-	-	-	-	-		
	Iron Sulfate Solution (Ferric Sulfate)	Liquid	1	1	1	-	2	2	2	-	2	2	1	2	1	-	1	X	1	1	X	X	1	
	Iron Sulfide Solution (Ferrous Sulfide)	Liquid	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
DATA CENTER	Isoamyl Acetate	Colorless Liquid	1	-	-	-	2	X	-	X	X	X	X	X	X	-	-	-	-	-	-	-	-	
	Isoamyl Alcohol (Isobutyl Carbinol)	Colorless Liquid	1	-	-	-	2	2	-	2	2	2	2	2	1	-	-	-	-	-	-	-	-	
	Isoamyl Bromide	-	1	-	-	-	X	X	-	X	X	X	2	X	X	-	-	-	-	-	-	-	-	
ENGINE & MARINE	Isoamyl Butyrate	Water White Liquid	1	-	-	-	-	X	-	X	-	X	X	X	-	-	-	-	-	-	-	-	-	
	Isoamyl Chloride	Colorless to Yellow Liquid	1	2	-	-	-	-	-	-	-	-	1	-	X	-	-	-	-	-	-	-	-	
	Isoamyl Ether	Colorless Liquid	1	-	-	-	-	X	-	X	-	X	X	X	X	-	-	-	-	-	-	-	-	
FOOD & BEVERAGE	Isoamyl Phthalate	Colorless Liquid	1	-	-	-	-	X	-	X	-	2	X	X	X	-	-	-	-	-	-	-	-	
	Isobutane	Colorless Gas	USE LPG HOSE ONLY															-	-	-	-	-	-	-
	Isobutane Liquid	Liquid @ 98 PSIG, 120°F (49°C)	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
MATERIAL HANDLING	Isobutanol (Isobutyl Alcohol)	Colorless Liquid	1	1	1	1	1	2	2	2	2	2	1	1	1	1	2	1	1	1	1	2	-	
	Isobutene (Isobutylene)	Gas	1	-	-	-	X	1	X	X	-	-	2	X	-	-	-	-	-	-	-	-	-	
	Isobutyl Acetate	Colorless Liquid	1	-	-	-	X	X	-	X	X	X	X	X	2	-	-	-	-	-	-	-	-	
MINING	Isobutyl Alcohol (Isobutanol)	Colorless Liquid	1	1	1	1	1	2	2	2	2	2	1	1	1	1	2	1	1	1	1	2	-	
	Isobutyl Aldehyde (Isobutyraldehyde)	Colorless Liquid	1	-	-	-	2	X	-	X	X	X	X	X	2	-	-	-	-	-	-	-	-	
	Isobutyl Carbinol (Primary Isoamyl Alcohol)	Colorless Liquid	1	-	-	-	2	2	-	2	2	2	2	2	-	-	-	-	-	-	-	-	-	
OILFIELD	Isobutylamine	Colorless Liquid	1	-	-	-	X	-	X	-	2	X	X	-	-	-	-	-	-	-	-	-	-	
	Isobutylene (Isobutene)	Gas	1	-	-	-	X	1	X	X	-	-	2	X	-	-	-	-	-	-	-	-	-	
	Isobutylene Liquid (Isobutene Liquid)	Liquid @ 88 PSIG, 120°F (49°C)	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
PETROLEUM	Isobutyraldehyde (Isobutyl Aldehyde)	Colorless Liquid	1	-	-	-	2	X	-	X	X	X	X	X	-	-	-	-	-	-	-	-	-	
	Isocyanate (Toluene Diisocyanate)	Water White to Yellow Liquid	1	2	1	X	X	X	X	X	X	X	1	-	-	1	-	1	1	1	-	-	-	
	Isooctane	Colorless Liquid	1	2	-	X	X	1	X	X	1	X	1	1	2	1	X	1	1	1	2	1	-	
PRESSURE WASH & WASHDOWN	Isooctyl Adipate	Viscous Liquid	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
	Isooctyl Alcohol	Clear Liquid	1	1	1	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
	Isooctyl Thioglycolate	Water White Liquid	1	1	-	-	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
STEAM	Isopentane	Colorless Liquid	1	2	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
	Isophorane	Water White Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Isophthalal Chloride	Liquid above 106°F (41°C)	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
WATER	Isopropanol (Isopropyl Alcohol)	Colorless Liquid	1	1	1	1	1	1	2	2	2	1	1	2	1	1	2	1	1	1	1	2	1	
	Isopropanolamine (MIPA)	Liquid	1	2	-	-	-	2	-	2	-	1	X	X	-	-	-	-	-	-	-	-	-	
	Isopropyl Acetate	Colorless Liquid	1	1	1	1	2	X	X	X	X	2	-	X	-	1	X	1	1	1	1	1	-	
COUPLINGS & CLAMPS	Isopropyl Alcohol (Isopropanol)	Colorless Liquid	1	1	1	1	1	1	2	2	2	1	1	2	1	1	2	1	1	1	1	2	1	
	Isopropyl Benzene (Cumene)	Colorless Liquid	1	2	-	X	-	-	-	-	-	-	1	-	X	-	-	-	-	-	-	-	-	
	Isopropyl Chloride	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	1	-	X	-	-	-	-	-	-	-	-	
CHEMICAL RESISTANCE TABLE	Isopropyl Ether	Colorless Liquid	1	1	1	-	X	X	X	X	X	2	X	X	X	1	X	1	1	1	1	1	-	
	Isopropylamine	Colorless Liquid	1	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Isopropylbenzene (Cumene)	Colorless Liquid	1	2	-	X	-	-	-	-	-	-	1	-	X	-	-	-	-	-	-	-	-	
PROPER HOSE SELECTION	Isopropyltoluene (Cymene)	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	1	-	X	1	-	1	1	1	1	1	-	
	Jet Fuel A and A1 ²	Liquid	1	-	-	-	-	1	-	-	-	-	1	-	X	-	-	-	-	-	-	-	-	
	Jet Fuel JP1 ²	Liquid	1	1	-	X	X	1	X	X	2	X	1	X	X	1	X	-	-	-	-	-	-	
HOSE FINDER	Jet Fuel JP10	Liquid	1	-	-	X	X	X	X	X	X	X	1	X	-	1	X	-	-	-	-	-	-	
	(Tetrahydroxydicyclopentadiene) ²	Liquid	1	-	-	X	X	X	X	X	X	X	1	X	-	1	X	-	-	-	-	-	-	
	Jet Fuel JP4 ²	Liquid	1	1	-	X	X	1	X	X	2	X	1	X	X	1	X	2	1	1	2	1	-	



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		Chem Master™ XTreme™ FEP	Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master	EPDM	NBR	SBR	NR	Chloroprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene	AGRICULTURE																					
																							T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene	AIR BREATHING
																																												AIR DUCT
Chemical	Form (at room temperature unless otherwise stated)	FEP	Gator™	UHMWPE	Sanitron™	EPDM	NBR	SBR	NR	Chloroprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene	AIR & MULTI-PURPOSE																					
Jet Fuel JP5 ²	Liquid	1	1	-	X	X	1	X	X	X	X	1	X	X	1	X	2	1	1	2	1	-	CHEMICAL																					
Jet Fuel JP8 ²	Liquid	1	1	-	X	X	1	X	X	X	X	1	X	-	1	X	2	1	1	2	1	-																						
² Aircraft fueling hose only for fueling operations.																							DATA CENTER																					
K																																												
Kaolin Clay	White to Yellowish Powder	1	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	ENGINE & MARINE																					
Karo Syrup	Yellow Liquid	-	-	-	1	-	-	-	-	-	-	-	-	-	1	1	-	1	1	-	-	-																						
Kerosene	Water White Oily Liquid	1	1	-	X	X	1	X	X	X	X	1	X	1	1	2	1	1	1	1	1	-	FOOD & BEVERAGE																					
Ketchup	Red Liquid	-	-	-	1	-	1	-	-	1	-	-	-	-	1	-	-	1	1	-	-	-																						
Ketoglutaric Acid	In Water or Alcohol	1	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	MATERIAL HANDLING																					
Ketones (ie Acetone, MEK, Cyclohexanone)	Generally Liquids	1	1	1	1	2	X	X	X	X	2	X	X	-	1	X	1	1	1	1	1	-																						
Koch Acid	White Solid	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	MINING																					
L																																												
Lacquer - Alcohol or Acetate as Solvent	Solution	1	1	1	1	2	-	-	-	-	-	X	-	-	-	-	X	X	1	1	1	-	OILFIELD																					
Lacquer - Toluene or Xylene as Solvent	Solution	1	-	-	-	-	X	X	X	X	X	1	X	-	1	X	X	X	1	1	1	-																						
Lactic Acid (90% or less)	Colorless-Yellow Liquid	1	1	1	1	2	X	2	2	1	-	1	1	-	-	X	X	2	1	X	2	-	PETROLEUM																					
Lactic Acid, Food-Grade - 50-80%	Colorless to Yellow Liquid	1	1	1	1	2	-	X	X	-	X	1	1	-	-	-	X	2	1	X	2	-																						
Lactic Acid, Plastic Grade - 50-80% or less	Colorless to Yellow Liquid	1	1	1	1	2	1	-	-	1	-	1	1	-	X	1	X	2	1	X	2	-	PRESSURE WASH & WASHDOWN																					
Lactic Acid, USP 85-90% or less	Colorless to Yellow Syrupy Liquid	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	X	2	1	X	2	-																						
Lactol	-	1	1	-	-	-	2	-	-	2	-	-	-	-	-	-	1	1	1	-	1	-	STEAM																					
Lard (Fat of the Hog)	Liquid above 108°F (42°C)	1	1	1	X	X	1	X	X	2	X	1	X	1	1	-	1	1	1	1	X	-																						
Lard Oil	Colorless to Yellow Liquid	1	1	-	-	-	-	-	-	2	-	X	-	-	-	-	1	1	1	1	X	-	WATER																					
Lasso (Alachlor)	Colorless Crystals	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	1	-	-	-																						
Latex Paint	Liquid	1	1	1	1	1	1	2	2	-	2	1	-	-	1	1	1	1	1	1	1	-	COUPLINGS & CLAMPS																					
Lauryl Peroxide	White Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-																						
Lauryl Alcohol	Liquid above 75°F (24°C)	1	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	CHEMICAL RESISTANCE TABLE																					
Lead Acetate	White Crystals	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	1	1	-	1	-																						
Lead Acetate Solution	Solution	1	1	1	1	1	2	2	2	-	2	1	-	1	-	1	2	1	1	-	1	-	PROPER HOSE SELECTION																					
Lead Arsenate	White Crystals	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1	1	-	-	-																						
Lead Arsenate Solution (In Nitric Acid)	Solution	1	1	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-	HOSE FINDER																					
Lead Nitrate Solution (In Water or Alcohol)	Solution	1	1	1	1	1	1	2	2	2	2	1	-	1	-	1	1	1	1	-	-	-																						
Lead Silicate (basic)	White Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	CHEMICAL RESISTANCE TABLE																					
Lead Sulphate (Basic, Blue Basic, Tribasic)	White to Blue Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1	1	-	-	-																						
Lead, Tetraethyl (Tetraethyl Lead)	Colorless Oily Liquid	1	2	-	-	X	2	X	X	X	X	1	X	-	2	1	-	-	-	-	-	-	PROPER HOSE SELECTION																					
Lead, Tetramethyl (Tetramethyl Lead)	Colorless Liquid	1	-	-	-	X	2	X	X	X	X	1	X	-	-	-	-	-	-	-	-	-																						
Lecithin	Light Brown Viscous Liquid-Solid	1	1	-	-	-	X	-	-	2	-	-	-	-	-	-	-	1	1	-	-	-	HOSE FINDER																					
Ligroin	Clear Liquid	1	2	-	-	X	1	X	X	X	X	1	X	-	1	X	2	1	1	-	-	-																						
Lime (Calcium Oxide)	White to Gray Lumpy Solid	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	2	-	-	-	HOSE FINDER																					
Lime Sulfur Solution	Solution	1	1	1	1	2	X	X	X	1	X	1	2	-	-	2	2	1	1	X	X	-																						



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AGRICULTURE			Chem Master™ XTreme™ FEP	Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene	
AIR BREATHING																								
AIR DUCT																								
AIR & MULTI-PURPOSE	Chemical	Form (at room temperature unless otherwise stated)	T	K	L	S																		
CHEMICAL	Lime, Chlorinated (Bleaching Solution)	Solution	1	1	1	1	2	2	2	2	X	2	1	X	-	-	2	X	2	1	-	-	-	
	Lime, Chlorinated (normal 35-37% Chlorine)	White Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	2	-	-	-		
DATA CENTER	Lime, Hydraulic (Calced Limestone)	Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-		
	Lime, Slaked (Calcium Hydroxide)	White Crystalline Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-		
ENGINE & MARINE	Limestone	Powder or Lumps	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-		
	Limonene	Colorless Liquid	1	2	1	X	X	X	X	X	-	-	1	-	-	1	-	1	1	1	1	1	-	
FOOD & BEVERAGE	Lindane (Aq Spray)	-	1	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	-	-		
	Linoleic Acid	Colorless to Straw Colored Liquid	1	1	1	-	X	2	-	-	X	X	1	-	-	-	1	-	-	-	-	-		
MATERIAL HANDLING	Linseed/Flax Seed	Yellow Amber to Brown Liquid	1	1	X	2	2	2	X	X	2	-	1	1	1	1	1	2	1	1	1	2	-	
	Liquid Soap	Liquid	1	1	1	-	2	-	2	2	-	2	-	-	-	-	2	1	1	1	1	1	-	
MINING	Lithium Chloride	White Crystals	-	-	X	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-		
	Lithium Chloride (35-40% Brine)	Solution	X	1	X	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-		
OILFIELD	Lubricating Oil Diester (Under 135°F/57°C)	Liquid	1	1	-	-	X	2	X	X	-	X	1	-	-	-	X	1	1	1	1	1	-	
	Lubricating Oil (SAE 10, 20, 30, 40, & 50)	Liquid	1	-	-	-	-	2	-	-	2	-	-	-	-	1	-	1	1	1	1	1	-	
PETROLEUM	Lubricating Oil (Under 120°F/49°C)	Liquid	1	1	-	-	X	1	X	X	2	X	1	2	1	1	2	1	1	1	1	1	-	
	Machine Oil (Under 135°F/57°C)	Liquid	1	1	-	-	X	1	X	X	1	X	1	2	-	1	2	1	1	1	1	1	-	
PRESSURE WASH & WASHDOWN	Magnesite	White to Brown Crystalline Solid	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-		
	Magnesium	Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-		
STEAM	Magnesium Acetate	Colorless Crystalline Aggregate	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-		
	Magnesium Acetate Solution	In Water or Alcohol	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	-	-	-	-	-		
WATER	Magnesium Carbonate	White Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1	1	-	-		
	Magnesium Carbonate Solution (in Acid)	Liquid Solution	1	1	1	1	-	-	-	-	-	-	1	-	-	-	-	1	1	1	-	-		
COUPLINGS & CLAMPS	Magnesium Chloride	Colorless to White	1	-	1	-	-	-	-	1	-	-	-	-	-	-	-	X	2	1	X	2	-	
	Magnesium Chloride Brine	Solution	1	1	1	1	1	1	-	1	-	-	1	-	-	-	-	-	-	-	-	-		
CHEMICAL RESISTANCE TABLE	Magnesium Chloride, Hydrated (in H2O or Alcohol)	Solution	1	1	1	1	1	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-		
	Magnesium Hydroxide	White Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1	1	X	-	-	
PROPER HOSE SELECTION	Magnesium Hydroxide Solution (in Dilute Acid)	Liquid Solution	1	1	1	-	-	-	-	-	-	-	1	-	-	-	-	1	1	1	X	-	-	
	Magnesium Nitrate	White Crystals	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1	1	X	1	-	
HOSE FINDER	Magnesium Nitrate Solution (in H2O or Alcohol)	Liquid Solution	1	1	1	1	1	1	-	-	-	-	1	-	-	-	-	1	1	1	X	1	-	
	Magnesium Oxide, Dry	White Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Magnesium Oxide, Slurry	-	1	1	-	-	1	2	-	2	1	-	1	-	-	-	-	-	-	-	-	-	-	
	Magnesium Sulfate Solution	Liquid Solution	1	1	1	1	1	1	1	1	2	1	1	1	1	-	1	2	1	1	-	1	-	
	Malathion (Ag Spray Dilute)	Clear to Amber Liquid	1	1	1	-	2	-	X	X	-	1	1	-	-	1	1	1	1	1	-	1	-	
	Malathion (Ag Spray)	Clear to Amber Liquid	1	1	-	-	2	-	-	-	-	1	-	-	-	1	-	1	1	1	-	1	-	
	Maleic Acid	Liquid	NO HOSE AVAILABLE																-	-	-	-	-	-
	Maleic Acid Solution	Solution	1	1	1	1	1	2	2	2	X	-	1	-	-	-	X	2	2	1	-	-	-	
	Maleic Anhydride	Colorless Needles	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Maleic Anhydride (Heated Liquid)	Liquid above 124°F (53°C)	1	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Malic Acid (dl form)	Colorless Crystals	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	



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		Gates Hose / Polymers															Couplings / Adapters						
		Chem Master™ XTreme™ FEP	Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master																		
Chemical	Form (at room temperature unless otherwise stated)	T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene	
Malic Acid Solution (in H2O or Alcohol)	Solution	1	1	1	1	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
Malt Extract (Maltine)	Light Brown Viscous Liquid	1	1	1	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
Malt, Dry	Yellow to Amber Grain	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Maltine (Malt Extract)	Light Brown Viscous Liquid	1	1	1	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
Manganese Salts	-	1	-	-	-	1	X	X	-	-	1	1	-	-	1	-	-	-	-	-	-	-	
Manganese Sulfate (Manganous Sulfate)	Pale Red Solid	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese Sulfate Solution	Solution in Water	1	1	-	-	-	1	2	2	-	-	1	1	1	-	1	-	-	-	-	-	-	
Manganese Sulfide (Manganous Sulfide)	Green Crystals	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese Sulfite (Manganous Sulfite)	Black to Brownish Red Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAPP Gas (Methylacetylene Propadiene)	Liquid	USE LPG HOSE ONLY															-	-	-	-	-	-	-
Maxmul (Penzoil Hydraulic Fluid)	Liquid	1	-	-	-	-	1	-	-	2	-	-	-	-	-	-	1	-	1	-	-	-	
Mayonnaise	Semi-Liquid	1	1	-	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	
MBK (Methyl Butyl Ketone)	Colorless Liquid	1	1	-	-	2	X	X	X	X	2	X	X	2	-	X	1	1	1	1	1	-	
MEK (Methyl Ethyl Ketone)	Colorless Liquid	1	2	1	1	2	X	X	X	X	2	X	X	2	1	X	1	1	1	1	1	-	
Mercuric Chloride	White Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	X	1	1	X	X	-	
Mercuric Chloride Solution (in H2O or Alcohol)	Solution	1	1	-	-	2	2	2	1	1	2	-	1	1	-	2	X	1	1	X	X	-	
Mercuric Cyanide	Colorless Transparent Prisms	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	X	-	-	
Mercuric Cyanide Solution (in H2O or Alcohol)	Solution	1	1	-	-	2	2	2	2	1	2	-	1	-	-	-	-	-	-	X	-	-	
Mercurous Nitrate Solution	Solution	1	1	1	-	2	-	-	-	-	-	1	-	-	-	-	1	1	1	X	-	-	
Mercury	Silver Liquid	1	1	1	-	-	2	2	2	1	2	-	1	1	-	1	1	1	1	X	X	-	
Mercury Vapor	Gas	NO HOSE AVAILABLE															-	-	-	-	-	-	
Mesityl Oxide (Methyl Isobutenyl Ketone)	Colorless Oily Liquid	1	1	1	-	2	X	X	X	X	2	X	X	2	-	X	1	1	1	1	1	-	
Mesitylene (Trimethylbenzene)	Liquid	1	-	-	X	X	X	X	X	X	X	1	-	-	1	X	-	-	-	-	-	-	
Metallic Soaps (Aluminum, Calcium, Zinc)	Solids @ Room Temperature	1	1	1	-	X	1	X	X	-	X	1	2	1	-	-	1	1	1	1	1	-	
Methylal Alcohol (Methylalyl Alcohol)	Colorless Liquid	1	-	-	-	-	1	-	2	-	2	2	2	-	-	-	-	-	-	-	-	-	
Methane	Gas	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
Methanol (Methyl Alcohol)	Colorless Liquid	1	1	1	1	1	1	1	1	1	1	X	1	1	1	2	1	1	1	1	2	-	
Methionine	White Crystalline Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methoxychlor Solution (in Alcohol)	Solution	1	1	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	1	-	-	-	
Methylamine (Monomethylamine)	Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	1	X	1	1	1	-	-	-	
Methyl Acetate	Colorless Liquid	1	2	-	-	2	X	X	X	X	2	X	X	1	1	X	1	1	1	1	1	-	
Methyl Acetoacetate	Colorless Liquid	1	-	-	-	2	X	-	X	X	2	X	X	-	-	-	-	-	-	-	-	-	
Methyl Acetone	Water White Liquid	1	-	-	-	1	X	-	X	-	2	X	X	-	-	1	-	-	-	-	-	-	
Methyl Acrylate (Inhibited)	Colorless Liquid	1	2	-	2	2	X	X	X	X	X	X	X	-	-	-	1	1	1	1	1	-	
Methyl Acrylate Acid (Methylacrylic Acid)	White Solid	1	1	1	1	2	2	X	X	-	1	X	-	1	X	-	-	-	-	-	-	-	
Methyl Alcohol (100%) (Methanol)	Colorless Liquid	1	1	1	1	1	1	1	1	1	1	X	1	1	1	2	1	1	1	1	2	-	
Methyl Bromide	Liquid @ 55 PSIG @ 120°F (49°C)	1	1	-	-	X	X	X	X	X	X	1	X	-	1	X	1	1	1	-	1	-	
Methyl Bromoacetate	Colorless to Straw Colored Liquid	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Butanethiol (Butyl Mercaptan)	Liquid	1	1	-	X	X	-	X	X	-	X	1	-	-	-	X	-	1	1	-	-	-	

TECHNICAL DATA
AGRICULTURE
AIR BREATHING
AIR DUCT
AIR & MULTI-PURPOSE
CHEMICAL
DATA CENTER
ENGINE & MARINE
FOOD & BEVERAGE
MATERIAL HANDLING
MINING
OILFIELD
PETROLEUM
PRESSURE WASH & WASHDOWN
STEAM
WATER
COUPLINGS & CLAMPS
CHEMICAL RESISTANCE TABLE
PROPER HOSE SELECTION
HOSE FINDER

TECHNICAL DATA	Contact Denver Product Application for recommendations for chemicals not listed. Phone: (303) 744-5070 email: fppasupport@gates.com		Gates Hose / Polymers															Couplings / Adapters					
AGRICULTURE			AIR BREATHING	AIR DUCT	AIR & MULTI-PURPOSE	CHEMICAL	DATA CENTER	ENGINE & MARINE	FOOD & BEVERAGE	MATERIAL HANDLING	MINING	OILFIELD	PETROLEUM	PRESSURE WASH & WASHDOWN	STEAM	WATER	COUPLINGS & CLAMPS	CHEMICAL RESISTANCE TABLE	PROPER HOSE SELECTION	HOSE FINDER			
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NOTE: Ratings are for the effect on the polymer only!		T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene	
Chemical		Form (at room temperature unless otherwise stated)	FEP	Gator™	UHMWPE	Sanitron™	EPDM	NBR	SBR	NR	Chloroprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene
Methyl Butanol (2-Methyl-1-Butanol)		Colorless Liquid	1	1	1	1	1	1	-	-	-	1	1	-	1	1	1	-	-	-	-	-	-
Methyl Butyl Ketone (MBK)		Colorless Liquid	1	1	-	-	2	X	X	X	X	2	X	X	2	-	X	1	1	1	1	1	-
Methyl Carbitol (Diethylene Glycol Methyl Ether)		Colorless Liquid	1	1	-	1	1	-	X	X	-	X	1	X	1	-	-	-	-	-	-	-	-
Methyl Cellosolve (Diethylene Glycol Methyl Ether)		Colorless Liquid	1	1	-	1	1	-	X	X	-	X	X	X	1	-	-	-	-	-	-	-	-
Methyl Chloride		Liquid @ 160PSIG @ 120°F (49°C)	1	2	-	X	X	X	X	X	X	X	1	X	X	-	X	1	1	1	-	1	-
Methyl Chloroform (1,1,1 Trichloroethane)		Colorless Liquid	1	2	-	X	X	X	X	X	X	1	X	X	X	X	-	-	-	-	-	-	-
Methyl Chloroformate		Colorless Liquid	1	-	-	-	X	X	X	X	X	1	X	-	-	-	-	-	-	-	-	-	-
Methyl Cyanide (Acetonitrile)		Colorless Liquid	1	1	2	1	2	X	2	2	X	X	X	X	1	-	1	1	1	1	-	-	-
Methyl Cyclohexane		Colorless Liquid	1	-	-	X	X	1	X	X	-	X	1	X	2	1	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK)		Colorless Liquid	1	2	1	1	2	X	X	X	X	2	X	X	2	1	X	1	1	1	1	1	-
Methyl Formate		Colorless Liquid	1	1	-	-	2	X	X	X	2	2	X	X	-	-	-	1	1	1	1	1	-
Methyl Hexanol		-	1	-	-	-	-	1	-	1	-	1	2	1	-	-	-	-	-	-	-	-	-
Methyl Hexanone (Methyl Isoamyl Ketone)		Colorless Liquid	1	-	-	-	-	X	-	X	-	2	X	X	-	-	-	-	-	-	-	-	-
Methyl Hexyl Ketone		Colorless Liquid	1	-	-	-	-	X	-	X	-	2	X	X	-	-	-	-	-	-	-	-	-
Methyl Isoamyl Ketone (Methyl Hexanone)		Colorless Liquid	1	-	-	-	-	X	-	X	-	2	X	X	-	-	-	-	-	-	-	-	-
Methyl Isobutenyl Ketone (Mesityl Oxide)		Colorless Oily Liquid	1	1	1	-	2	X	X	X	X	2	X	X	X	-	X	1	1	1	1	1	-
Methyl Isobutyl Ketone (MIBK)		Colorless Liquid	1	2	-	-	-	X	X	X	X	2	X	X	X	1	X	-	-	-	-	-	-
Methyl Isopropyl Ketone		Colorless Liquid	1	2	-	-	2	X	X	X	X	2	X	X	X	1	X	1	1	1	1	1	-
Methyl Methacrylate		Colorless Liquid	1	2	-	2	2	X	X	X	X	X	X	2	2	-	1	1	1	1	-	-	-
Methyl Methacrylate Monomer, Inhibited		Colorless Liquid	1	-	-	-	X	X	X	X	X	X	X	X	-	X	X	-	-	-	-	-	-
Methyl Phenol (Cresol)		Liquid above 95°F (35°C)	1	2	-	-	-	X	X	X	X	2	1	X	1	X	-	2	1	1	1	-	2
Methyl Propyl Carbinol (2 Pentanol)		Colorless Liquid	1	1	1	1	1	-	-	-	-	1	1	-	1	-	-	-	-	-	-	-	-
Methyl Propyl Ether		Colorless Liquid	1	-	-	-	-	X	-	X	-	X	-	2	-	-	-	-	-	-	-	-	-
Methyl Propyl Ketone (Pentanone)		Water White Liquid	1	-	-	-	2	X	-	X	X	2	X	X	-	-	X	-	-	-	-	-	-
Methyl Salicylate		Yellow to Red Liquid	1	1	-	-	2	2	-	-	2	2	-	-	-	-	1	1	1	1	1	1	-
Methyl Stearate		Liquid above 99°F (38°C)	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Sulfate (Dimethyl Sulfate)		Colorless Liquid	1	1	-	-	X	X	X	X	X	2	X	X	-	1	1	-	-	-	-	-	-
Methyl-2-Pyrrolidone		Colorless Liquid	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl-n-Amyl Carbinol		Colorless Liquid	1	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Methyl-n-Amylketone		Water White Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylacetylene Propadiene (MAPP Gas)		Liquid @ 107 PSIG @ 68°F (20°C)	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Methylacrylic Acid (Crotonic Acid)		White Crystalline Solid	1	1	1	1	2	2	X	X	-	1	1	-	1	X	-	-	-	-	-	-	-
Methylal		Colorless Liquid	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Methylallyl Alcohol (Methallyl Alcohol)		Colorless Liquid	1	-	-	-	-	1	-	2	-	2	2	2	-	-	-	-	-	-	-	-	-
Methylallyl Chloride		Colorless to Straw Colored Liquid	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Methylamine (30-40% in H2O)		Colorless Liquid	1	1	-	-	2	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
Methylamine (Anhydrous)		Liquid @ 120 PSIG @ 120°F (49°C)	1	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
Methylamyl Acetate		Colorless Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylamyl Alcohol		Colorless Liquid	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Methylaniline		Colorless to Brown Liquid	1	1	1	1	2	X	-	-	X	-	1	2	-	X	X	-	-	-	-	-	-
Methyldiethanolamine		Colorless Liquid	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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AGRICULTURE			Chem Master™ XTreme™ FEP	Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene	
AIR BREATHING																								
AIR DUCT																								
AIR & MULTI-PURPOSE	Chemical	Form (at room temperature unless otherwise stated)	T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene	
CHEMICAL	Nickel Carbonate	Green to Brown Crystals/Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
DATA CENTER	Nickel Chloride	Brown Deliquescent Scales	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	X	2	2	X	X	-	
ENGINE & MARINE	Nickel Chloride Solution (In Water or Alcohol)	Solution	1	1	-	-	2	2	2	2	2	2	1	2	1	-	1	X	2	2	X	X	-	
	Nickel Nitrate	Green Deliquescent Crystals	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	2	X	-	-	
	Nickel Nitrate Solution (In Water or Alcohol)	Solution	1	1	-	-	2	2	2	2	2	2	1	2	1	-	2	-	-	2	X	-	-	
FOOD & BEVERAGE	Nickel Plating Solution	Liquid	1	1	-	-	-	2	2	2	-	-	-	2	-	-	X	-	1	1	-	-	-	
	Nickel Salts	-	1	1	-	-	1	1	1	1	1	1	1	1	-	1	2	-	-	-	-	-	-	
MATERIAL HANDLING	Nickel Sulfate	Yellow Green to Blue Crystals	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	2	1	X	X	-	
	Nickel Sulfate Solution	Solution	1	1	-	-	2	2	2	2	2	2	1	2	1	-	1	-	2	1	X	X	-	
	Nicotine Salts (ie Nicotine Hydrochloride)	Colorless Oil	1	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	X	2	-	-	-	
MINING	Niter Cake (Sodium Bisulfate)	Colorless Crystals to White Lumps	1	1	-	-	1	1	1	1	1	1	1	1	1	1	1	X	1	1	X	X	-	
	Niter Cake Solution	Solution	1	1	1	1	2	-	X	X	-	2	1	1	1	-	-	-	-	-	-	-	-	
	Nitric Acid (25% or less)	Colorless Liquid	1	1	1	2	2	X	X	X	X	2	1	2	X	X	X	X	2	2	-	X	-	
OILFIELD	Nitric Acid (10%)	Transparent or Yellowish Liquid	1	1	1	1	1	X	X	X	X	2	1	2	X	X	X	X	2	2	-	X	-	
PETROLEUM	Nitric Acid (25%)	Transparent or Yellowish Liquid	1	1	1	2	2	X	X	X	X	2	1	2	X	X	X	X	2	2	-	X	-	
	Nitric Acid (35% or less, 26° Baume)	Colorless Liquid	1	1	1	2	2	X	X	X	X	2	1	1	X	X	X	X	2	2	-	X	-	
	Nitric Acid (52% or less, 36° Baume)	Colorless to Yellow Liquid	1	2	X	2	X	X	X	X	X	X	1	2	X	X	X	X	2	2	-	X	-	
PRESSURE WASH & WASHDOWN	Nitric Acid (61% or less, 40° Baume)	Colorless to Yellow Liquid	1	2	X	2	X	X	X	X	X	X	1	2	X	X	X	X	2	2	-	X	-	
STEAM	Nitric Acid (63.5% or less)	Transparent or Yellowish Liquid	1	X	X	X	X	X	X	X	X	X	1	X	X	X	X	X	2	2	-	X	-	
	Nitric Acid (67% or less, 42° Baume)	Colorless to Yellow Liquid	1	X	X	X	X	X	X	X	X	X	1	X	X	X	X	X	2	2	-	X	-	
	Nitric Acid (95% or less, 48.5° Baume)	Yellow Liquid	1	X	X	X	X	X	X	X	X	X	1	X	X	X	X	X	2	2	-	X	-	
COUPLINGS & CLAMPS	Nitric Acid (Red Fuming)	Red Liquid	1	X	X	X	X	X	X	X	X	X	1	X	X	X	X	-	-	-	-	-	-	
	Nitrobenzene	Yellow Liquid @ 43°F (6°C)	1	2	-	1	2	X	X	X	X	X	2	X	X	2	X	1	1	1	1	1	-	
	Nitroethane	Colorless Liquid	1	1	-	-	2	X	2	2	X	2	-	2	2	-	-	-	1	1	-	1	-	
CHEMICAL RESISTANCE TABLE	Nitrogen (Cryogenic Liquid)	Liquid	NO HOSE AVAILABLE																1	1	1	1	1	-
	Nitrogen (Gas)	Colorless Gas	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	
	Nitrogen Dioxide (Nitrogen Tetroxide)	Liquid @ 50 PSIG @ 120°F (49°C)	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
PROPER HOSE SELECTION	Nitrogen Fertilizer (Ammonia, Urea)	Solutions in Water	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Nitrogen Oxide (Nitrous Oxide)	Gas	1	1	-	1	2	X	X	X	X	1	1	1	1	X	X	1	1	1	-	X	-	
	Nitrogen Tetroxide (Nitrogen Dioxide)	Liquid @ 50 PSIG @ 120°F (49°C)	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
HOSE FINDER	Nitromethane	Colorless Liquid	1	-	-	-	2	X	-	2	X	2	X	X	-	1	X	-	1	1	-	1	-	
	Nitropropane	Colorless Liquid	1	1	-	-	2	X	X	X	X	2	X	-	-	1	-	-	1	1	-	1	-	
	Nitrosyl Chloride	Yellow-Red Liquid or Gas	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	



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		Chem Master™ XTreme™ FEP	Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master	EPDM	NBR	SBR	NR	Chloroprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene	
Chemical	Form (at room temperature unless otherwise stated)	T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G							
Nitrous Acid (Up to 10%)	Light Blue Liquid	1	1	1	-	-	-	-	-	1	-	-	1	-	1	1	X	1	1	X	X	-	
Nitrous Oxide (Nitrogen Oxide)	Gas	1	1	-	1	2	X	X	X	X	1	1	1	1	X	X	1	1	1	X	-	-	
Nitrous Oxide, Compressed Liquid	Liquid @ 800 PSIG @ 68°F (20°C)	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonene (I-nonylene)	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
Nonyl Alcohol (Octyl Carbinol)	Colorless Liquid	1	1	1	1	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
Nonylene (Nonene)	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
O																							
Octadecanoic Acid (Stearic Acid)	Colorless Waxy Solid	1	1	1	1	2	2	2	2	2	2	1	2	1	1	1	X	2	1	X	X	-	
Octanoic Acid (Caprylic Acid)	Colorless Oily Liquid	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
Octanol (Octyl Alcohol)	Colorless Liquid	1	1	-	-	-	2	2	2	2	-	1	-	1	1	2	1	1	1	1	2	-	
Octene	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
Octyl Acetate	Colorless Liquid	1	-	-	-	-	X	-	X	-	X	X	1	-	-	-	-	-	-	-	-	-	
Octyl Alcohol (Octanol)	Colorless Liquid	1	1	-	-	-	2	2	2	2	-	1	-	1	1	2	1	1	1	1	2	-	
Octyl Aldehyde	Colorless Liquid	1	-	-	-	-	X	-	X	-	X	X	X	-	-	-	-	-	-	-	-	-	
Octyl Carbinol (Nonyl Alcohol)	Colorless Liquid	1	1	1	1	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
Octyl Phenol (Diisobutyl Phenol)	White Flakes	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Octylamine	Water White Liquid	1	-	-	-	-	X	-	X	-	2	X	X	-	-	-	-	-	-	-	-	-	
Oil (SAE Motor Oils)	Liquid	1	1	-	X	X	1	X	X	2	X	1	2	1	1	2	-	-	-	-	-	-	
Oil of Turpentine	Liquid	1	2	2	-	X	1	X	X	2	X	1	X	-	1	1	-	-	-	-	-	-	
Oils, Animal (High Fatty Acid Content)	Solid to Liquids	1	2	-	2	X	1	X	X	2	2	1	X	1	-	2	1	1	1	1	1	-	
Oils, Mineral (Aliphatic or Aromatic)	Liquids	1	2	-	X	X	2	X	X	X	X	1	2	2	1	X	-	-	-	-	-	2	
Oils, Vegetable (Soybean, Coconut, Corn)	Liquids	1	1	-	X	X	1	X	X	-	X	1	X	-	1	-	-	-	-	-	-	1	
Oleic Acid (fatty acid)	Yellow to Red Oily Liquid	1	2	2	2	2	2	X	X	2	2	2	X	X	-	2	2	2	1	1	2	1	
Oleum (Fuming Sulfuric, 30% SO3 or less)	Clear to Off White Fuming Liquid	1	X	X	X	X	X	X	X	X	X	1	X	X	X	X	-	-	1	-	-	X	
Olive Oil	Yellow to Green Liquid	1	2	1	2	2	2	X	X	X	2	1	X	2	1	2	2	1	1	1	2	1	
Ortho-Dichlorobenzene (also meta and para)	Colorless Liquid	1	2	-	X	X	X	X	X	X	X	1	X	X	1	X	-	1	1	-	1	-	
Ortho-xylene (1,2 Dimethylbenzene)	Clear Colorless Liquid	1	X	X	X	X	X	X	X	X	X	1	X	X	X	X	-	-	-	-	-	-	
OS 45 Hydraulic Fluid (Silicate Ester Base)	Liquid	1	-	-	-	X	2	X	X	1	X	1	2	-	-	-	-	-	-	-	-	-	
Oxalic Acid	Transparent Crystals	1	-	2	-	-	-	-	1	-	-	-	-	X	-	-	X	2	1	2	X	1	
Oxalic Acid (50%)	Crystals in H2O	1	2	1	2	2	X	X	X	X	2	1	2	X	X	X	-	-	-	-	-	-	
Oxygen	Colorless Gas	1	1	-	1	1	2	2	2	-	1	1	1	1	-	-	-	-	-	-	-	-	
Oxygen, Refrigerated Liquid	Liquid @ 200 PSIG @ -231°F (-146°C)	NO HOSE AVAILABLE															-	-	-	-	-	-	-
Ozone	Gas	1	2	2	1	1	X	X	X	2	2	2	2	1	2	1	1	1	1	1	1	1	
P																							
Paint (Emulsion or Latex)	Liquid	1	1	1	1	2	2	-	-	-	-	1	-	-	1	1	-	-	-	-	-	-	
Paint (Inorganic)	Liquid	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	-	
Paint (Oil or Solvent Based)	Liquid or Paste	1	1	-	X	X	2	X	X	-	X	1	X	-	1	-	-	-	-	-	-	-	
Paint Remover	Liquid or Paste	1	2	-	X	X	X	X	X	X	X	1	X	-	X	-	-	-	-	-	-	-	
Paint Resin	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Palm Oil	Yellow to Brown Solid	1	1	-	-	-	1	X	X	2	2	-	2	-	-	-	1	1	1	1	1	-	
Palmitic Acid (Hexadecanoic Acid)	Crystals in Hot Alcohols	1	1	1	2	2	2	X	X	2	2	1	X	1	-	-	1	2	1	1	X	1	
Parolin HLP Synth	Liquid	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Papermakers Alum (Aluminum Ammonium Sulfate)	In Water	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

TECHNICAL DATA
AGRICULTURE
AIR BREATHING
AIR DUCT
AIR & MULTI-PURPOSE
CHEMICAL
DATA CENTER
ENGINE & MARINE
FOOD & BEVERAGE
MATERIAL HANDLING
MINING
OILFIELD
PETROLEUM
PRESSURE WASH & WASHDOWN
STEAM
WATER
COUPLINGS & CLAMPS
CHEMICAL RESISTANCE TABLE
PROPER HOSE SELECTION
HOSE FINDER

TECHNICAL DATA	Contact Denver Product Application for recommendations for chemicals not listed. Phone: (303) 744-5070 email: fppasupport@gates.com		Gates Hose / Polymers															Couplings / Adapters					
AGRICULTURE			AIR BREATHING	AIR DUCT	AIR & MULTI-PURPOSE	CHEMICAL	DATA CENTER	ENGINE & MARINE	FOOD & BEVERAGE	MATERIAL HANDLING	MINING	OILFIELD	PETROLEUM	PRESSURE WASH & WASHDOWN	STEAM	WATER	COUPLINGS & CLAMPS	CHEMICAL RESISTANCE TABLE	PROPER HOSE SELECTION	HOSE FINDER			
1 = Preferred - Constant Contact 2 = Acceptable - Intermittent Contact X = Not Recommended - = No Data		Chem Master™ X-Treme™ FEP	Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master																		
NOTE: Ratings are for the effect on the polymer only!		T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene	
Chemical		Form (at room temperature unless otherwise stated)	FEP	Gaton™	UHMWPE	Sanitron™	EPDM	NBR	SBR	NR	Chloroprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene
Paraffin (Aliphatic Hydrocarbon)		Varies from Gas to	1	1	1	X	X	1	X	X	2	X	1	X	1	-	-	2	1	1	-	1	-
Paraformaldehyde		White Solid - Flakes or Powder	1	-	-	-	-	2	-	1	2	-	-	-	-	-	1	-	1	1	1	-	-
Paraldehyde		Colorless Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Paranox (Detergent, Disperser; Exxon)		-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Parapol (Liquid Polyisobutylene; Exxon)		Liquid	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Peanut Oil		Yellow to Green Liquid	1	1	-	2	-	1	-	-	2	X	-	-	-	-	2	1	1	1	1	1	1
Pelargonic Acid		Colorless to Yellow Oil	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachloroethane		Colorless Liquid	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol In Oil		In Oil (Wood)	1	1	1	X	X	X	X	X	X	1	1	-	-	-	X	-	-	-	-	-	-
Pentaerythritol (Monopentaerythritol)		White Powder	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentane		Colorless Liquid	1	X	X	X	X	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-
Pentanol (Methyl Propyl Carbinol)		Colorless Liquid	1	1	1	1	1	-	-	-	-	1	1	-	1	-	-	-	-	-	-	-	-
Pentanone (Methyl Propyl Ketone)		Water White Liquid	1	-	-	-	2	X	-	X	X	2	X	X	-	-	X	-	-	-	-	-	-
Pentanol (Amyl alcohols, primary and secondary)		Liquid	1	2	2	2	2	2	2	2	2	2	1	2	1	1	2	1	1	1	1	1	-
Perchloric Acid (70%)		70% or less with H2O	1	2	1	2	-	-	2	2	2	2	1	2	-	X	X	-	2	1	-	-	1
Perchloroethylene		Colorless Liquid	1	2	1	X	X	X	X	X	X	X	1	X	2	2	X	1	1	1	-	X	-
Petroleum Coke		Solid Pellets	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Distillate		Liquid	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Petroleum Ether (Naptha)		Liquid	1	1	-	X	X	2	X	X	X	X	1	X	1	-	X	2	1	1	-	1	-
Petroleum Naphtha (Toluene/ Cyclohexane/Xylene)		Liquid	1	X	X	X	X	X	X	X	X	X	1	X	X	X	X	-	-	-	-	-	-
Petroleum Naphtha Flash Point Over 200°		Liquid	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Petroleum Oils (Refined)		Liquid	1	1	1	X	X	1	X	X	2	X	1	2	-	1	1	-	-	-	-	-	-
Petroleum Oils (Sour)		Liquid	1	1	1	X	X	1	X	X	2	X	1	X	-	-	2	-	-	-	-	-	-
Petroleum Paraffin Wax		Solid with Low Melt Points	1	2	2	X	X	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Phenol (Carbolic Acid)		White or Pink Crystals	1	2	-	2	2	X	X	X	X	2	1	X	1	X	X	X	1	1	2	X	-
Phenol Acid		95% or less with H2O	1	2	2	2	2	X	X	X	X	2	1	X	1	X	X	X	1	1	-	X	-
Phenolates		-	1	-	-	-	-	X	-	-	X	-	2	X	-	2	-	-	-	-	-	-	-
Phenolsulfonic Acid		Yellow to Brown Liquid	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Phenothiazine		Greenish Powder or Flakes	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenyl Acetate		Water White Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenyl Chloride (Chlorobenzene)		Clear Volatile Liquid	1	2	-	X	X	X	X	X	X	X	1	X	X	X	X	1	1	1	1	1	X
Phenylenediamine (ortho)		Colorless to Red Solid Needles	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Phorane (Diisopropylidene Acetone)		Yellow Liquid	1	1	-	-	2	X	X	X	X	2	X	X	-	-	-	1	1	1	-	1	-
Phosgene (Carbonyl Chloride)		Gas, Liquid 60 PSIG @ 120°F (49°C)	1	X	X	X	X	X	X	X	X	2	1	X	-	2	-	-	-	-	-	-	-
Phosphate Ester Hydraulic Fluid		Liquid	1	1	1	-	1	X	X	X	X	2	-	X	-	2	-	-	1	1	1	-	-
Phosphate Rock		Solid	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosphate, Trisodium		In Water	1	1	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Phosphoric Acid (100%)		Crystals	1	2	2	2	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Phosphoric Acid (35% or less)		Colorless Liquid	1	1	1	1	1	2	2	2	2	2	1	1	1	-	-	X	1	1	X	2	1
Phosphoric Acid (50%)		Colorless Liquid	1	1	1	1	1	2	2	2	2	2	1	1	1	X	X	X	1	1	X	2	1
Phosphoric Acid (75%)		Colorless Liquid	1	2	1	2	2	-	-	-	-	-	1	1	1	X	X	X	2	2	X	X	1
Phosphoric Acid (85%)		Syrupy Liquid	1	2	1	2	2	X	X	X	X	X	1	1	1	X	X	X	2	2	X	X	1
Phosphoric Acid (90%)		Syrupy Liquid	1	2	1	2	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-



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		Gates Hose / Polymers															Couplings / Adapters					
		Chem Master™ XTreme™ FEP	Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master																	
Chemical	Form (at room temperature unless otherwise stated)	T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene
Phosphoric Acid, Spent	Liquid	1	1	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Photographic, Developers	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Photographic, Emulsions	Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Photographic, Fixing Solutions	Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Phthalic Acid	Colorless Crystals	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Phthalic Acid (50%)	Colorless Liquid	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phthalic Anhydride, Molten	White Crystalline Solid	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Picric Acid (Solution)	In Water	1	2	2	2	2	-	-	-	-	-	1	-	-	-	-	X	1	1	X	X	1
Picric Acid (Trinitrophenol)	Yellow Crystals	1	2	2	2	2	2	2	2	2	2	1	2	-	X	1	X	1	1	X	X	1
Pine Oil	Colorless to Amber Liquid	1	1	-	-	X	2	X	X	-	X	2	X	2	-	-	-	-	-	-	-	-
Pine Tar	Viscous Brown to Black Liquid	1	2	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Pinene	Colorless Transparent Liquid	1	1	-	X	X	2	X	X	X	X	1	-	2	1	X	1	1	1	-	-	-
Piperazine Hydrochloride Solution (34%)	In Water	1	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pitch	In Aromatic Hydrocarbons	1	2	X	X	X	2	X	X	X	X	1	X	-	1	X	-	-	-	-	-	-
Plating Solution Chrome (Under 120°F/49°C)	Liquid	1	1	-	-	2	-	-	-	-	2	2	-	-	X	X	-	X	X	-	-	1
Pluronic (Block Polymer with Hydroxyl by BASF)	Liquid	1	1	1	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Polyester Plastic	-	1	1	-	-	-	-	-	-	-	-	2	-	-	2	-	-	-	-	-	-	-
Polyethylene Glycol	Colorless Liquid to Glassy Solid	1	-	-	-	1	2	-	1	1	1	1	1	-	2	2	-	-	-	-	-	-
Polyethylene Plastic	Solid Beads	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polypropylene Glycol	Liquid	1	1	-	1	1	1	-	1	1	1	1	1	-	-	-	-	-	-	-	-	-
Polypropylene Plastic	Solid Beads	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polystyrene Plastic	Solid Beads	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polyurethane Foam (Under 125°F/52°C)	-	1	1	-	2	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-
Polyvinyl Acetate - Emulsions	Emulsion	1	1	1	1	1	1	-	1	2	1	-	1	1	-	1	-	-	-	-	-	-
Potash (Potassium Carbonate) Aqueous Solution	Liquid	1	1	-	1	1	-	1	1	1	1	1	1	-	1	1	2	1	1	-	X	1
Potassium Acetate	White Powder	1	1	-	-	2	2	2	2	2	2	X	2	1	-	1	-	1	1	-	-	1
Potassium Bicarbonate	Colorless Crystal or White Powder	1	1	-	-	1	1	1	1	1	1	1	1	-	1	1	-	-	-	-	-	-
Potassium Bisulfate	Colorless Crystal	1	1	-	-	1	1	1	1	1	1	1	1	1	-	1	-	-	-	-	-	-
Potassium Bromate	White Crystal or Powder	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-
Potassium Bromide	White Crystals or Powder	1	1	-	-	1	1	1	1	1	1	1	1	-	1	1	-	-	-	-	-	-
Potassium Carbonate	White Granular Powder	1	1	-	-	1	1	1	1	1	1	1	1	1	1	1	2	1	1	-	X	1
Potassium Carbonate, Liquid	Colorless to Cloudy Liquid	1	1	-	1	1	1	1	1	1	1	1	1	-	1	1	2	1	1	-	X	1
Potassium Chlorate	Colorless to White Powder	1	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-
Potassium Chloride	Colorless to White Solid	1	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-
Potassium Chloride, Dry	White Solid	1	1	-	1	1	1	1	1	1	1	1	1	-	1	1	-	-	-	-	-	-
Potassium Chromate	Yellow Crystal	1	2	-	-	2	X	X	X	2	2	1	2	1	2	1	-	-	-	-	-	-

TECHNICAL DATA
AGRICULTURE
AIR BREATHING
AIR DUCT
AIR & MULTI-PURPOSE
CHEMICAL
DATA CENTER
ENGINE & MARINE
FOOD & BEVERAGE
MATERIAL HANDLING
MINING
OILFIELD
PETROLEUM
PRESSURE WASH & WASHDOWN
STEAM
WATER
COUPLINGS & CLAMPS
CHEMICAL RESISTANCE TABLE
PROPER HOSE SELECTION
HOSE FINDER

TECHNICAL DATA	Contact Denver Product Application for recommendations for chemicals not listed. Phone: (303) 744-5070 email: fppasupport@gates.com		Gates Hose / Polymers														Couplings / Adapters																						
AGRICULTURE			AIR BREATHING	AIR DUCT	AIR & MULTI-PURPOSE	CHEMICAL	DATA CENTER	ENGINE & MARINE	FOOD & BEVERAGE	MATERIAL HANDLING	MINING	OILFIELD	PETROLEUM	PRESSURE WASH & WASHDOWN	STEAM	WATER	COUPLINGS & CLAMPS	CHEMICAL RESISTANCE TABLE	PROPER HOSE SELECTION	HOSE FINDER																			
																					Chem Master™ X-Treme™ FEP	Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master															
																					T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum
			Form (at room temperature unless otherwise stated)	FEP	Gator™	UHMWPE	Sanitron™	EPDM	NBR	SBR	NR	Chloroprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene															



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		Chem Master™ XTreme™ FEP	Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene
Chemical	Form (at room temperature unless otherwise stated)	T	K	L	S																	
		FEP	Gator™	UHMWPE	Sanitron™	EPDM	NBR	SBR	NR	Chloroprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC						
Pydraul 625	Liquid	1	1	-	-	2	X	X	X	X	2	1	X	2	2	X	1	1	1	-	-	-
Pydraul A-200	Liquid	1	1	-	-	X	X	X	X	X	X	1	X	2	2	X	1	1	1	-	-	-
Pydraul F-9	Liquid	1	2	-	-	2	X	X	X	X	2	1	X	2	2	-	1	1	1	-	-	-
Pyrene (Carbon Tetrachloride)	Colorless Liquid	1	2	X	X	X	X	X	X	X	X	1	X	2	X	X	X	2	2	X	2	X
Pyrethrum	Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-
Pyridine (50%)	-	1	2	-	2	-	-	-	-	X	-	X	X	-	-	X	-	1	1	1	1	-
Pyrogard 160, 230, 630	Liquid	1	1	-	-	-	-	-	-	-	-	2	-	-	-	-	1	1	1	-	-	-
Pyrogard 51, 53, 55	Liquid	1	1	-	-	2	X	-	-	-	2	-	-	-	-	-	1	1	1	-	-	-
Pyrogard C, D	Liquid	1	1	-	-	X	1	-	-	-	X	-	-	-	1	2	1	1	1	1	1	-
Pyronal (Transformer Oil)	Liquid	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Q																						
Quenching Oil	Liquid	1	-	-	-	-	2	-	-	2	-	-	-	-	-	-	-	1	1	1	-	-
Quintolubric 822	Liquid	1	1	-	-	2	1	-	-	2	X	1	-	-	1	-	1	1	1	1	1	-
R																						
Ramrod (Aq Spray)	-	1	1	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	1	1	1	-
Rando Oils	Liquid	1	1	-	-	X	1	-	-	-	X	-	-	-	1	-	1	1	1	1	1	-
Rape Seed Oil (Canola Oil)	Brownish to yellow Liquid	1	2	-	2	2	2	-	-	2	2	-	X	-	2	-	1	1	1	1	1	-
Red Oil (Commercial Oleic Acid) (MIL-5606)	Liquid	1	2	2	2	2	1	X	X	2	2	2	X	2	1	2	2	2	1	1	2	1
Refined Wax (Petroleum)	-	1	1	-	-	-	1	X	X	2	-	1	-	-	1	-	1	1	1	-	1	-
Regal Oils R80	Liquid	1	1	-	-	X	1	-	-	-	X	-	-	-	1	2	1	1	1	1	1	-
Richfield "A" Weed Killer	-	1	1	-	-	X	2	X	X	X	X	2	X	-	-	2	-	-	-	-	-	-
Road Paving Compound	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Road Tar	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Round Up (Glyphosate)	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Rubilene Oils	Liquid	1	1	-	-	X	1	-	-	-	X	-	-	-	1	2	-	-	-	-	-	-
S																						
Salicylic Acid	White Powder	1	1	1	1	2	X	2	2	-	2	2	-	-	1	1	-	1	1	2	-	-
Salt Water (Sea Water)	Liquid	1	1	-	1	1	2	2	X	2	1	1	2	-	1	1	2	1	1	-	2	-
Sauerkraut	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-
Sea Water	Colorless Liquid	1	1	-	1	1	2	2	X	2	1	1	2	-	1	1	2	1	1	-	2	-
Sevin	-	1	2	-	-	2	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Sewage	Sludge	1	1	1	1	1	2	2	X	2	-	-	2	1	1	2	X	1	1	2	1	-
Shampoo	Liquid	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shellac	Orange to Colorless Flake	1	-	X	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Shortening	-	1	-	-	-	X	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silicate of Soda	Brownish or Yellow Liquid	1	1	-	-	1	1	-	1	1	1	1	1	-	-	-	-	-	-	-	-	-
Silicone Greases	Liquid	1	2	-	-	-	2	-	-	2	-	2	2	-	1	2	1	1	1	-	1	-
Silicone Oils	Liquid	1	2	-	-	-	2	-	-	2	-	2	2	-	1	2	1	1	1	-	1	-
Silver Cyanide	White Powder	1	1	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	1
Silver Nitrate	Colorless Crystal	1	1	-	-	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	2	-
Skydrol 500A & 7000	Liquid	1	1	-	1	1	X	X	X	X	2	X	X	2	1	X	1	1	1	1	-	-
Soap Oil	Liquid	1	1	2	-	-	X	-	-	X	-	-	X	-	-	-	1	1	1	-	-	-
Soap Solutions	Liquid	1	1	1	-	1	1	X	X	2	1	1	1	1	1	1	1	1	1	1	1	-
Soap, Liquid	Liquid	1	1	-	-	1	1	2	2	1	2	1	1	-	2	2	1	1	1	-	-	-
Soda Ash (Sodium Carbonate)	Grayish Powder	1	1	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	X	2	1
Soda Water	Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-
Sodium Acetate	Colorless Crystal	1	1	-	-	2	X	2	2	X	2	X	X	1	1	1	1	1	1	1	1	-

TECHNICAL DATA
AGRICULTURE
AIR BREATHING
AIR DUCT
AIR & MULTI-PURPOSE
CHEMICAL
DATA CENTER
ENGINE & MARINE
FOOD & BEVERAGE
MATERIAL HANDLING
MINING
OILFIELD
PETROLEUM
PRESSURE WASH & WASHDOWN
STEAM
WATER
COUPLINGS & CLAMPS
CHEMICAL RESISTANCE TABLE
PROPER HOSE SELECTION
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AGRICULTURE			Chem Master™ X-Treme™ FEP	Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene
AIR BREATHING																							
AIR DUCT																							
AIR & MULTI-PURPOSE	Chemical	Form (at room temperature unless otherwise stated)	T	K	L	S	EPDM	NBR	SBR	NR	Chloroprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC						
CHEMICAL	Sodium Aluminate Solution	Colorless to Cloudy Liquid	1	1	-	-	1	1	2	2	1	1	1	1	-	2	2	-	-	-	-	-	
	Sodium Benzoate	White Crystals or Powder	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	
DATA CENTER	Sodium Bicarbonate	White Crystal or Powder	1	1	-	-	1	1	1	1	1	1	1	1	1	1	1	2	1	1	-	2	-
	Sodium Bichromate Solution	Red to Clear Liquid	1	1	-	-	1	2	2	2	2	1	1	2	-	2	2	-	-	-	-	-	-
ENGINE & MARINE	Sodium Bisulfate (Niter Cake)	Colorless Crystals to White Lumps	1	1	-	-	1	1	1	1	1	1	1	1	X	1	1	X	1	1	X	X	-
	Sodium Bisulfite	White Crystals or Powder	1	1	-	-	1	1	1	1	1	1	1	1	-	1	1	1	1	1	-	-	-
FOOD & BEVERAGE	Sodium Borate (Borax)	White Crystals	1	1	-	-	1	1	1	1	1	1	1	1	-	1	1	2	1	1	-	2	1
	Sodium Carbonate (Soda Ash)	Grayish Powder	1	1	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	X	2	1
	Sodium Chlorate	Colorless Crystals	1	-	-	-	1	1	1	1	2	2	1	1	-	1	1	-	-	-	-	-	1
MATERIAL HANDLING	Sodium Chloride	Colorless to White Crystals	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	X	X	-
	Sodium Chlorite Solution	Colorless to Cloudy Liquid	2	-	-	-	X	X	2	2	X	2	X	2	-	X	2	-	-	-	-	-	-
MINING	Sodium Chromate	Yellow, Translucent Crystals	1	-	-	-	-	1	2	2	1	2	1	X	-	2	2	-	-	-	-	-	-
	Sodium Cyanide	In Water	1	1	-	-	1	1	1	1	1	1	1	1	2	1	1	2	1	1	X	X	-
OILFIELD	Sodium Cyanide	White Crystalline Powder	1	1	-	-	1	1	1	1	1	1	1	1	2	1	1	2	1	1	X	X	-
	Sodium Dichromate	Red to Red-Orange Crystals	1	-	-	-	1	1	2	2	2	1	1	2	-	-	1	-	-	-	-	-	1
PETROLEUM	Sodium Ferricyanide	Ruby-Red Crystals	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1
	Sodium Ferrocyanide	Yellow, Transparent Crystals	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1
PRESSURE WASH & WASHDOWN	Sodium Fluoride (70%)	White Liquid	1	1	1	-	2	-	2	2	-	2	-	-	-	-	1	-	-	2	-	-	-
	Sodium Hydrate	White Solid	1	2	-	-	1	2	2	2	2	2	2	2	-	2	2	-	-	-	-	-	-
	Sodium Hydrochlorite	Pale Greenish Liquid	1	2	-	-	2	X	2	X	X	2	1	1	-	2	2	-	-	-	-	-	-
	Sodium Hydrosulfide	Colorless Needles	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
STEAM	Sodium Hydrosulfite	Lemon Colored Powder or Flake	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-
	Sodium Hydroxide (10%)	Colorless Liquid	1	1	1	1	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-
WATER	Sodium Hydroxide (40%)	Colorless Liquid	1	1	1	1	2	2	1	1	1	2	1	1	1	X	-	2	1	1	X	X	-
	Sodium Hydroxide (50%) (Under 212°F/100°C)	Colorless Liquid	1	1	2	1	2	-	-	-	-	-	X	-	1	-	-	-	-	-	-	-	-
COUPLINGS & CLAMPS	Sodium Hydroxide (50%) (Under 115°F/46°C)	Colorless Liquid	1	1	2	1	2	X	1	1	2	1	X	1	1	X	-	2	2	2	X	X	-
	Sodium Hydroxide (50%) (Under 180°F/82°C)	Colorless Liquid	1	1	2	1	2	X	X	X	2	2	X	2	1	X	-	X	2	2	X	X	-
CHEMICAL RESISTANCE TABLE	Sodium Hydroxide (60%)	White Liquid	1	2	1	-	2	X	2	2	2	2	X	2	1	X	-	X	2	2	X	X	-
	Sodium Hydroxide (25%)	Colorless Liquid	1	1	1	1	2	2	1	1	1	2	1	1	1	-	-	X	X	2	X	X	-
	Sodium Hypochlorite (20%)	White Liquid	1	2	1	-	1	X	X	X	X	-	X	1	1	2	1	X	X	2	X	X	-
	Sodium Hypochlorite (5%)	White Liquid	1	2	1	-	1	X	X	X	-	-	1	1	1	1	1	X	X	2	X	X	-
PROPER HOSE SELECTION	Sodium Hyposulfate	Large, Transparent Crystals	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
	Sodium Metallic	Silver Solid	2	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HOSE FINDER	Sodium Metaphosphate	Colorless Crystals to White Powder	1	1	-	-	2	2	2	2	2	2	2	2	1	1	1	X	1	1	1	X	-
	Sodium Nitrate	Colorless Crystal	1	1	-	-	2	X	X	X	X	2	-	2	1	1	1	1	2	2	2	2	-



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		Chem Master™ XTreme™ FEP	Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master	EPDM	NBR	SBR	NR	Chloroprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene
Chemical	Form (at room temperature unless otherwise stated)	T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G						
Sodium Perborate	White, Amorphous Powder	1	1	-	-	2	X	X	X	X	2	-	X	X	2	-	X	1	1	1	X	-
Sodium Peroxide	Yellowish White Powder	1	1	2	-	-	-	-	-	1	1	1	1	X	X	1	X	1	1	1	X	-
Sodium Phosphate	Colorless Crystals to White Powder	1	1	-	-	2	-	2	2	X	2	-	-	X	1	1	-	1	1	X	X	-
Sodium Silicate	Lumps of Greenish Glass	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	-	1
Sodium Sulfate	White Crystals or Powder	1	1	-	-	1	1	2	2	1	1	1	1	1	1	1	-	-	-	-	-	1
Sodium Sulfate Decahydrate (Glauber's Salt)	Crystals or Powder	1	-	-	-	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium Sulfhydrate	Colorless to Cloudy Liquid	1	2	-	-	1	2	X	2	2	2	2	2	-	2	2	-	-	-	-	-	-
Sodium Sulfide	Yellow/Brick Red Flakes or Crystals	1	1	-	-	1	1	2	2	1	1	1	1	2	1	1	-	-	-	-	-	1
Sodium Sulfide Solution	Colorless to Cloudy Liquid	1	2	-	-	1	2	-	2	2	1	2	2	2	X	-	-	-	-	-	-	1
Sodium Sulfite	White Crystals or Powder	1	1	-	-	2	2	2	2	2	2	-	2	-	1	1	1	1	1	-	-	-
Sodium Sulfite Solution	Colorless to Cloudy Liquid	1	2	-	-	1	2	-	2	2	1	2	2	-	X	-	1	1	1	-	-	-
Sodium Sulphhydrate	Colorless Needles	1	2	-	-	1	2	-	-	2	1	2	2	-	2	2	-	-	-	-	-	-
Sodium Thiocyanate Solution	Colorless to Cloudy Liquid	1	1	-	-	1	1	2	-	1	2	1	2	-	-	-	-	-	-	-	-	-
Sodium Thiosulfate (HPD)	White Powder	1	1	-	-	-	1	1	1	1	1	-	1	1	1	1	X	1	1	2	X	-
Sodium Tripolyphosphate (STPP)	White Powder	1	2	-	-	-	-	-	-	-	2	X	-	-	-	-	-	1	1	X	X	-
Solnus Oils	Liquid	1	1	-	-	X	1	-	-	-	X	-	-	-	1	1	1	1	1	1	1	-
Sour Crude Oil	Liquid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
Soybean Oil	Pale Yellow Oil	1	1	1	2	X	2	X	X	2	2	1	2	2	1	2	1	1	1	-	-	-
Spent Acid	Liquid	1	2	2	X	X	X	X	X	X	X	1	2	X	X	X	-	1	1	-	-	-
Stannic Chloride	Colorless, Fuming Liquid	1	1	-	-	-	2	2	2	X	X	1	X	X	X	2	X	-	-	-	X	-
Stannic Sulfide	Yellow to Brown Powder	1	2	-	-	-	2	-	2	-	2	-	2	-	-	-	-	-	-	-	-	-
Stannous Chloride (Under 150°F)	White Mass	1	1	-	-	2	1	1	1	1	1	1	1	1	X	1	-	-	-	-	-	1
Starch	White Amorphous Powder	1	1	-	1	1	2	1	1	2	-	1	1	-	1	1	-	-	-	-	-	-
Starch Gum (Dextrin)	Yellow or White Powder	1	1	-	-	1	1	-	-	1	X	1	-	-	1	1	-	1	1	-	-	1
Stauffer Jet 1	Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	-
Stauffer Jet 2	Liquid	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	-
Steam	Gas	USE STEAM HOSE ONLY																				
Stearic Acid (Octadecanoic Acid)	Colorless Waxy Solid	1	1	1	1	2	2	2	2	2	1	2	2	1	1	1	X	2	1	X	X	-
Stearin	Colorless crystal or	1	-	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-
Stoddard Solvent	Clear petroleum	1	2	-	2	X	2	X	X	-	X	1	-	1	1	2	2	1	1	-	1	-
STPP (Sodium Tripolyphosphate)	White Powder	1	2	-	-	2	-	2	2	-	2	X	-	-	-	-	-	2	1	X	X	-
Straight Synthetic Oils	Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-
Styrene (Monomer)	Colorless Oily Liquid	1	2	-	X	X	X	X	X	-	X	2	-	x	2	-	2	X	2	X	2	-
Sucrose Solutions	Liquid	1	1	-	1	-	1	1	1	1	1	-	1	-	-	-	1	1	1	-	-	-
Sugar, Liquid, Blended	Liquid	1	1	-	1	1	1	1	1	1	1	1	2	-	-	-	-	-	-	-	-	-
Sugar, Syrup	Liquid	1	1	-	1	1	1	1	1	1	1	1	2	-	-	-	-	-	-	-	-	-

TECHNICAL DATA
AGRICULTURE
AIR BREATHING
AIR DUCT
AIR & MULTI-PURPOSE
CHEMICAL
DATA CENTER
ENGINE & MARINE
FOOD & BEVERAGE
MATERIAL HANDLING
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CHEMICAL RESISTANCE TABLE
PROPER HOSE SELECTION
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Chem Master™ XTreme™ FEP			Chem Master™ Plus XLPE	Chem Master™ Plus UHMWPE	Food & Beverage Master	EPDM	NBR	SBR	NR	Chloroprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene	
AGRICULTURE	1 = Preferred - Constant Contact 2 = Acceptable - Intermittent Contact X = Not Recommended -- = No Data																						
AIR BREATHING																							
AIR DUCT	NOTE: Ratings are for the effect on the polymer only!																						
AIR & MULTI-PURPOSE	Chemical	Form (at room temperature unless otherwise stated)	FEP	Gatron™	UHMWPE	Sanitron™	EPDM	NBR	SBR	NR	Chloroprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene
CHEMICAL	Sulfamic Acid	In Water	1	1	1	1	2	X	X	X	-	2	1	2	-	X	X	-	-	-	-	-	-
	Sulfamic Acid 10% Under 170°F (77°C)	Colorless Liquid	1	X	-	-	-	-	X	X	-	-	2	2	-	-	-	-	-	-	-	-	-
	Sulfate Liquors Under 150°F (66°C)	-	1	-	-	-	-	-	-	-	-	-	-	-	x	1	1	-	-	-	-	-	1
DATA CENTER	Sulfur (Under 200°F (93°C))	Yellow Crystals	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sulfur Chloride	Yellow Oily Liquid	1	2	-	-	X	X	X	X	X	X	1	2	-	2	2	X	X	2	-	X	-
	Sulfur Dioxide	Colorless Gas or	-	-	-	1	2	X	X	-	-	2	X	-	-	-	-	-	-	-	-	-	-
ENGINE & MARINE	Sulfur Dioxide (Dry)	-	1	2	-	-	2	X	X	X	X	X	1	2	-	X	1	2	1	1	1	1	-
	Sulfur Dioxide (Liquid)	Colorless Liquid	1	-	1	-	1	X	X	X	2	2	X	2	-	-	X	-	-	-	-	-	-
	Sulfur Dioxide (Moist)	-	1	2	1	-	1	X	X	X	2	1	2	2	-	-	X	-	-	-	-	-	-
FOOD & BEVERAGE	Sulfur Hexafluoride (Gas)	Colorless Gas	1	1	-	-	1	2	2	2	1	1	2	2	-	1	2	-	-	-	-	-	-
	Sulfur Trioxide (Dry)	Solid	1	2	-	-	2	X	X	X	X	X	1	X	X	-	1	2	2	2	2	-	-
	Sulfuric Acid (10%)	Colorless Water	1	1	1	1	1	2	1	1	1	1	1	1	1	X	-	-	X	X	2	X	X
MATERIAL HANDLING	Sulfuric Acid (100%)	Colorless Liquid	1	X	X	X	X	X	X	X	X	X	2	X	X	-	-	2	X	2	X	X	-
	Sulfuric Acid (30%)	Colorless Water	1	1	1	1	1	2	2	2	1	1	1	1	x	X	-	X	X	2	X	X	-
	Sulfuric Acid (50%)	Colorless Water	1	1	1	1	1	X	X	X	2	1	1	1	1	x	X	-	X	X	2	X	X
MINING	Sulfuric Acid (60%) (48.5° Baume)	Colorless Liquid	1	1	1	1	1	X	X	X	X	1	1	1	x	X	-	X	X	2	X	X	-
	Sulfuric Acid (75%)	Colorless to Brown	1	1	1	1	2	X	X	X	X	2	1	2	x	X	-	X	X	2	X	X	-
	Sulfuric Acid (88%) (64.7° Baume)	Colorless Liquid	1	2	1	2	X	X	X	X	X	X	1	X	X	X	-	X	X	2	X	X	-
OILFIELD	Sulfuric Acid (93%)	Colorless to Brown	1	X	1	2	X	X	X	X	X	X	1	X	X	X	-	X	X	2	X	X	-
	Sulfuric Acid (96%)	Colorless Liquid	1	X	1	2	X	X	X	X	X	X	1	X	X	X	-	X	X	2	X	X	-
	Sulfuric Acid (98%)	Colorless to Brown	1	X	1	2	X	X	X	X	X	X	1	X	X	X	-	X	X	2	X	X	-
PETROLEUM	Sulfuric Acid, Fuming (Oleum)	Colorless to Dark	1	X	X	X	X	X	X	X	X	X	1	X	X	X	X	-	-	1	-	-	X
	Sulfurous Acid (10%)	Colorless Liquid	1	1	1	1	1	X	X	X	-	2	1	1	x	-	1	-	X	2	1	X	X
	Sulfurous Acid (75%)	Colorless Liquid	1	1	1	1	1	X	X	X	X	X	1	1	x	X	-	X	X	2	X	X	-
PRESSURE WASH & WASHDOWN	Sun R80 Oils	Liquid	1	1	-	-	X	1	-	-	-	X	1	-	-	1	2	1	1	1	1	1	-
	Suntac HP Oils	Liquid	1	1	-	-	X	1	-	-	-	X	1	-	-	1	2	1	1	1	1	-	-
	Suntac WR Oils	Liquid	1	1	-	-	X	1	-	-	-	X	1	-	-	1	2	1	-	1	1	-	-
STEAM	Sunvis Oils 700, 800, 900	Liquid	1	1	-	X	X	1	-	-	-	X	1	-	-	1	2	1	1	1	-	-	-
	Synthetic Oil (Citgo)	Liquid	1	1	-	-	X	-	-	-	-	X	-	-	-	1	2	1	1	1	-	-	-
	Syrup	Viscous Liquid	1	1	-	1	-	-	1	1	2	-	1	-	-	-	-	-	1	1	-	-	-
WATER	T																						
	TEL (Tetraethyl Lead)	Colorless Oily Liquid	1	2	-	-	X	2	X	X	X	X	1	X	-	2	1	-	-	-	-	-	-
	Tellus Oils	Liquid	1	1	-	-	X	1	-	-	-	X	1	-	-	1	2	1	1	1	1	1	-
COUPLINGS & CLAMPS	Tenol Oils	Liquid	1	1	-	-	X	1	-	-	-	X	1	-	-	1	2	1	1	1	-	-	-
	Tergitol (Ethoxylates and Ethoxysulfates of Alcohol)	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	1	-	2	-
	Terpineol	Colorless Liquid or Crystal	1	1	-	-	-	-	X	X	-	X	-	2	1	2	2	-	-	-	-	-	-
CHEMICAL RESISTANCE TABLE	Tertiary Butyl Alcohol	Colorless Liquid or Crystal	1	2	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
	Tetrachlorobenzene	White Crystal	1	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
	Tetrachloroethane (Acetylene Tetrachloride)	Colorless Liquid	1	X	X	X	X	-	X	X	-	X	1	X	X	1	X	-	-	-	-	-	-
PROPER HOSE SELECTION	Tetrachloroethylene	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	1	-	X	-	-	-	-	-	-	-	-
	Tetrachloromethane	Colorless Liquid	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
	Tetrachloronaphthalene	Oily Liquid to Crystalline Solid	1	-	-	-	-	-	-	-	-	-	2	-	X	-	-	-	-	-	-	-	-
HOSE FINDER	Tetradecanol	White Solid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tetraethyl Lead (TEL)	Colorless Oily Liquid	1	2	-	-	X	2	X	X	X	X	1	X	-	2	1	-	-	-	-	-	-
	Tetraethylene Glycol	Colorless Liquid	1	2	-	-	-	2	-	2	-	1	2	2	-	-	-	-	-	-	-	-	-
HOSE FINDER	Tetrahydrofuran (THF)	Colorless Liquid	1	X	-	-	2	X	X	X	X	2	1	X	X	1	X	2	-	-	-	-	X
	Tetrahydrodicyclopentadiene (JP ID) ²	-	-	-	-	X	X	X	X	X	X	X	1	X	-	1	X	-	-	-	-	-	-



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email: fppasupport@gates.com

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NOTE: Ratings are for the effect on the polymer only!

Chemical	Form (at room temperature unless otherwise stated)	T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene
		FEP	Gafron™	UHMWPE	Sanitron™	EPDM	NBR	SBR	NR	Chloroprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC						
² Aircraft fueling hose only for fueling operations.																						
Tetralin	Colorless Liquid	1	-	-	X	X	X	X	X	X	X	1	X	-	2	-	-	-	-	-	-	X
Theobroma Oil (Cocoa Butter)	Liquid above 95°F (35°C)	1	1	2	2	-	2	X	X	2	-	-	-	-	-	-	1	1	1	-	-	-
THF (Tetrahydrofuran)	Colorless Liquid	1	X	-	-	2	X	X	X	X	2	1	X	X	1	X	2	-	-	-	-	X
Thiopen	-	1	-	-	-	X	X	X	X	X	2	2	-	-	-	-	-	-	-	-	-	-
Tin Tetrachloride	Colorless Liquid	1	-	-	-	-	2	-	2	X	-	-	2	-	-	-	-	-	-	-	-	-
Titanium Tetrachloride	Colorless Liquid	1	-	-	-	X	X	-	-	X	X	2	-	-	-	-	1	2	2	X	X	-
Toluene (Toluol) (Methyl Benzene)	Colorless Liquid	1	2	2	X	X	X	X	X	X	X	1	X	X	1	X	1	1	1	1	1	-
Toluene Diisocyanate (Hylene)	Yellow Liquid	1	-	-	-	2	X	X	X	X	2	X	X	-	-	-	-	-	-	-	-	-
Toluene Diisocyanate (Isocyanate)	Water White to Yellow Liquid	1	2	1	X	X	X	X	X	X	X	1	-	-	1	-	1	1	1	-	-	-
Toluidine	Yellow Liquid or White Crystal	1	-	-	-	-	X	-	X	-	X	2	X	-	-	-	-	-	-	-	-	-
Toluol (Toluene)	Colorless Liquid	1	2	2	X	X	X	X	X	X	X	1	X	X	1	X	1	1	1	1	1	-
Transformer Oil (Askarel Types) ¹	Liquid	1	2	2	X	X	X	X	X	X	X	1	X	2	1	X	1	1	1	-	1	2
Transformer Oil (Petroleum Type) ¹	Liquid	1	1	-	-	X	1	X	X	2	X	1	X	2	1	2	1	1	1	1	1	-
¹ Petroleum hose only.																						
Transmission Fluid (Type A)	Liquid	1	1	-	-	X	1	X	X	2	X	1	-	1	2	-	1	1	1	-	1	-
Tributoxyethyl Phosphate	Yellow Liquid	1	1	X	-	2	X	X	X	-	2	-	X	X	2	-	1	-	-	X	-	-
Tributyl Phosphate	Colorless Liquid	1	1	X	-	X	X	X	X	X	X	1	X	X	-	-	1	-	-	X	-	-
Tricalcium Aluminate (Calcium)	Crystals or Powder	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobenzene	White Crystal or Colorless Liquid	1	2	-	-	-	X	X	X	X	X	2	X	-	-	-	-	-	-	-	-	-
Trichloroethane 1,1,1 (Methyl Chloroform)	Colorless Liquid	1	X	-	X	X	X	X	X	X	X	1	X	X	X	X	-	-	-	-	-	-
Trichloroethylene	Colorless Liquid	1	1	X	X	X	X	X	X	X	X	1	X	2	2	-	X	-	1	X	1	-
Trichloropropane	Colorless Liquid	1	-	-	-	-	2	-	X	2	X	1	X	-	-	-	-	-	-	-	-	-
Tricresyl Phosphate	Colorless Liquid	1	-	X	-	1	X	X	X	X	2	1	X	1	1	-	1	-	2	X	-	-
Triethanolamine (TEA)	Colorless Viscous Liquid	1	1	-	-	1	2	2	2	2	2	X	2	1	-	2	-	1	1	-	1	-
Triethylamine	Colorless Liquid	1	-	-	-	2	2	X	X	-	X	2	-	-	-	-	-	-	-	-	-	-
Triethylene Glycol	Colorless Liquid	1	-	-	-	-	2	-	2	-	2	2	2	-	-	-	-	-	-	-	-	-
Trihydroxybenzoic Acid (Gallic Acid)	In Alcohol or Glycerol	1	1	1	1	1	X	2	2	X	2	1	-	1	X	X	X	1	1	-	-	1
Trimethyl Phosphite	Colorless Liquid	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trimethylbenzene (Mesitylene)	Liquid	1	-	-	X	X	X	X	X	X	X	1	-	-	1	X	-	-	-	-	-	-
Trinitrophenol (Picric Acid)	Yellow Crystals	1	2	2	2	2	2	2	2	2	2	1	2	-	X	1	X	1	1	X	X	1
Trioctyl Phosphate	Liquid	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Triphenyl Phosphate	Colorless Powder	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tripolyphosphate (STPP), (Sodium)	White Powder	1	2	-	-	2	-	2	2	-	2	X	-	-	-	-	-	2	1	X	X	-
Trisodium Phosphate (TSP)	Colorless Crystal	1	-	-	-	1	2	2	X	2	2	1	X	-	-	-	-	-	-	-	-	-
Tung Oil	Yellow Drying Oil	1	2	-	X	X	2	X	X	X	X	1	2	X	-	2	1	1	1	1	1	-
Turpentine	Liquid Oil	1	X	1	X	X	2	X	X	X	X	1	X	X	1	1	-	1	1	1	2	-
U																						
Ucon Hydrolube Types 150CP, 200CP	Liquid	1	1	-	-	1	1	-	-	-	1	-	-	-	1	2	1	1	1	1	1	-
Ucon Hydrolube Types 275CP, 300CP, 550CP	Liquid	1	-	-	-	-	1	X	X	-	X	1	-	-	2	2	-	-	-	-	-	-
Ucon MI	Liquid	1	1	-	-	1	1	-	-	-	1	-	-	-	1	2	1	1	1	1	1	-
Undecanol (Undecyl Alcohol)	Colorless Liquid	1	-	-	-	-	1	-	2	-	-	2	2	-	-	-	-	-	-	-	-	-
Undecyl Alcohol (Undecanol)	Colorless Liquid	1	-	-	-	-	1	-	2	-	-	2	2	-	-	-	-	-	-	-	-	-
Union Hydraulic Tractor Fluid	Brown Liquid	1	1	-	-	X	1	-	-	-	X	-	-	-	1	2	1	1	1	1	1	-
Urea Solution (100%)	Liquid	1	1	1	1	1	2	1	1	1	2	-	1	1	1	2	1	1	1	-	-	-
V																						

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AIR BREATHING			T	K	L	S	P	C	D	D	A	H	V	M	J	Z	G	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene		
AIR DUCT	NOTE: Ratings are for the effect on the polymer only!		Chemical	Form (at room temperature unless otherwise stated)	FEP	Gaton™	UHMWPE	Sanitron™	EPDM	NBR	SBR	NR	Chloroprene	Butyl	Fluorocarbon	Hypalon®	CPE	Nylon	PVC	Iron/Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	Polypropylene
AIR & MULTI-PURPOSE	Varnish	-	1	2	-	X	X	X	X	X	X	X	X	X	2	X	X	1	-	2	1	1	-	2	-
CHEMICAL	Vegetable Oils	Liquids	1	2	1	2	2	-	X	X	2	X	-	1	X	1	2	1	1	1	1	-	-	-	
	Versilube F-50, F-44	Liquid	1	-	-	-	2	2	2	2	2	2	1	2	-	1	2	1	1	1	1	1	-	-	
	Vinegar	Brownish to Colorless Liquid	1	1	-	1	-	2	2	2	2	2	1	X	X	-	1	X	2	1	X	X	-	-	
DATA CENTER	Vinyl Acetate	Colorless Liquid	1	1	X	2	X	X	X	X	X	2	X	X	X	-	-	-	1	2	1	2	-	-	
	Vinyl Chloride (Monomer)	-	1	2	-	-	X	X	X	X	X	2	X	X	-	X	2	1	1	1	X	-	-		
	Vinyl Fluoride	Colorless Gas	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-		
ENGINE & MARINE	Vinyl Trichloride (Trichloroethane)	Colorless Liquid	1	-	-	X	X	X	X	X	X	X	1	X	X	X	X	-	-	-	-	-	-		
	Vital Oxide Disinfectant (70°F)	Liquid	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-		
	Vitrea Oils	Liquid	1	1	-	-	X	1	-	-	-	X	-	-	-	1	2	1	1	1	-	-	-		
FOOD & BEVERAGE	VMGP Naptha (Mineral Spirits)	Colorless Liquid	1	1	-	X	X	1	X	X	-	X	1	X	-	1	-	1	1	1	2	1	-		
	W																								
	Waste Paint	Liquid to Semi-Solid Paste	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MATERIAL HANDLING	Water	Liquid	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	2	1	1	1	1	-		
	Water (Brine)	Liquid	1	1	-	1	1	2	1	1	2	1	1	1	-	1	1	-	-	-	-	-	1		
	Water (Deionized)	Liquid	1	-	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-		
MINING	Water (Distilled)	Liquid	1	1	1	1	1	1	1	1	2	1	-	1	-	1	1	-	-	-	-	-	1		
	Water (Potable)	Liquid	USE FDA HOSE ONLY														-	-	-	-	-	1			
	Water Glycols	Liquid	1	1	1	1	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-		
OILFIELD	Water in Oil Emulsions	Liquid	1	1	1	2	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-		
	White & Bagley No. 2190 Cutting Oil	Liquid	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Wines	Liquid	1	2	-	1	X	X	X	X	X	X	1	X	1	1	-	2	2	2	1	-	-		
PETROLEUM	Wood Oil	Liquid	1	1	-	-	X	1	X	X	2	X	1	2	1	1	1	-	-	-	-	-	-		
	X																								
	Xylene (Dimethylbenzene)	Colorless Liquid	1	2	2	X	X	X	X	X	X	X	1	X	X	1	X	-	-	-	-	-	-		
PRESSURE WASH & WASHDOWN	Xylenol (Dimethylphenol)	White Solid, Liquid @ 68°F (20°C)	1	1	-	-	-	-	-	-	-	-	1	-	X	-	-	-	-	-	-	-	-		
	Z																								
	Zeric	-	1	1	-	-	X	1	-	-	-	X	-	-	-	2	2	-	-	-	-	-	-		
STEAM	Zinc Acetate	White Crystal	1	1	-	-	2	X	2	2	X	2	X	X	X	X	1	1	1	1	1	1	-		
	Zinc Chloride Solutions	Colorless to Cloudy Liquid	1	1	-	1	-	1	2	2	1	2	1	1	X	1	2	X	2	1	X	X	-		
	Zinc Chromate	Yellow Solid	1	1	-	-	-	-	-	-	-	-	-	1	X	-	-	-	1	1	-	-	-		
WATER	Zinc Hydrate	-	1	-	-	-	-	-	-	-	-	-	-	-	X	-	1	-	-	-	-	-	-		
	Zinc Oxide	White or Gray Powder	1	-	-	-	-	-	-	-	-	-	-	-	-	X	-	1	-	-	-	-	-		
	Zinc Sulfate Solutions	Colorless to Cloudy Liquid	1	1	-	-	2	2	X	X	2	2	-	2	X	2	2	X	2	1	X	X	-		
CHEMICAL RESISTANCE TABLE																									
PROPER HOSE SELECTION																									
HOSE FINDER																									



PROPER HOSE SELECTION

EXPLANATION OF COLUMN HEADINGS

- 1. Hose I.D.** — This is the nominal hose inside diameter in inches (Refer to ARPM Tolerances page).
- 2. Hose Name** — This is the hose identification shown in the catalog. For some special hoses, it may be a number, not a name.
- 3. Rated Working Pressure (psi)** — This is the design working pressure and is based on a certain percentage of the hose burst value. It varies with hose type and intended application.
- 4. Vacuum (In. Hg)** — This is the vacuum rating of the hose when used in vacuum applications at ambient temperatures, and not bent beyond the minimum bend radius.
- 5. Hose O.D.** — The outside diameter (Refer to ARPM Tolerances page).
- 6. Tube** — For reference, the Gates rubber type identification is given and the color used on that particular hose. Refer to Characteristics and Resistance Information for Hose Tube and Cover Compounds page for a description of these stocks.
- 7. Cover** — Same information for tube stock.
- 8. Hose Weight** — This is approximate measurement per current specification.
- 9. Minimum Bend Radius** — This is the smallest radius in inches around which a hose can be bent without over stressing components, without collapsing the hose wall and without substantially reducing fluid flow.
- 10. Hose Temperature Range** — Includes maximum and minimum temperatures of each hose listed.
- 11. Hose Category** — This is a listing of hose types as indicated in the Table of Contents of the Industrial Hose Products #39496-000. Most hoses are not limited to these applications only.

HOW TO SELECT A HOSE FROM THE DATA PAGES

EXAMPLE 1

Given: A customer wants a 3/4" I.D. x 20" hose to handle air or water and general purpose applications. Temperatures are ambient, a pressure rating up to 300 psi is required and it must have textile reinforcement with a high oil resistant tube.

Turn to Hose Finder Data Pages for the listing of 3/4" I.D. hoses. In the Rated Working Pressure column, you will find the 300 psi figures. NOTE: Several hoses have a 300 psi rating or higher. But the ones with textile reinforcement and high oil resistance that are multi-purpose are Plant Master™ XTreme™ hoses. All of these hoses could be suitable for the application. Refer to corresponding catalog page number for specific hose details and coupling recommendations.

EXAMPLE 2

Given: 6" x 50" dry powder food-grade transfer hose is needed. The hose requirements are: full vacuum, 50 psi and a temperature of 100 °F.

Turn to Hose Finder Data Pages for the listing of 6" I.D. hoses. In the Rated Working Pressure column, you will find the 50 psi rating or higher. The two hoses with 50 psi and full vacuum ratings and suitable for bulk food transfer are Food Master™ Dry Goods and Food Master™ Oils & Dairy. Refer to corresponding catalog page number for specific hose details and coupling recommendations.

TECHNICAL DATA

AGRICULTURE

AIR BREATHING

AIR DUCT

AIR & MULTI-PURPOSE

CHEMICAL

DATA CENTER

ENGINE & MARINE

FOOD & BEVERAGE

MATERIAL HANDLING

MINING

OILFIELD

PETROLEUM

PRESSURE WASH & WASHDOWN

STEAM

WATER

COUPLINGS & CLAMPS

CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

HOSE FINDER

TECHNICAL DATA	Hose I.D. (in)	Rated W.P. (psi)	Name	Vacuum (In. Hg.)	Hose O.D. (in)	Tube Type	Cover Type	MBR (in)	Wt. (lbs/ft)	Temp Min.	Temp Max.	Hose Categories	Catalog Page No.
AGRICULTURE													
AIR BREATHING			Windshield Washer And Vacuum Hose (Non-Reinforced)	24	0.22	P	P	2	1.00	-40°F -40°C	+257°F +125°C	Engine & Marine	96
AIR DUCT	7/64	25											
	1/8	65	Food Master™ PVC (20-65) Clear Tubing	—	0.20	G	G	—	.02	-25°F -31°C	+150°F +65°C	Food & Beverage	108
AIR & MULTI-PURPOSE			Windshield Washer And Vacuum Hose (Non-Reinforced)	24	0.31	P	P	2	2.24	-40°F -40°C	+257°F +125°C	Engine & Marine	96
	5/32	25											
	5/32	50	4219G Fuel Line (35-50)	24	0.36	C	C2	2	.05	-40°F -40°C	+257°F +125°C	Engine & Marine	84
CHEMICAL			4219BG Barricade™ Fuel Hose (35-50)	24	0.41	C1	C	3	.07	-40°F -40°C	+275°F +125°C	Engine & Marine	82
	3/16	50											
	3/16	50	4219G Fuel Line (35-50)	24	0.41	C	C2	3	.07	-40°F -40°C	+257°F +125°C	Engine & Marine	84
DATA CENTER			Food Master™ PVC (20-65) Clear Tubing	—	0.25	G	G	—	.03	-25°F -31°C	+150°F +65°C	Food & Beverage	108
	3/16	50											
	3/16	60	Food Master™ PVC (20-65) Clear Tubing	—	0.38	G	G	—	.04	-25°F -31°C	+150°F +65°C	Food & Beverage	108
ENGINE & MARINE			LPG Vapor 125 Hose	30	0.44	C	A	2	.08	-30°F -34°C	+150°F +66°C	Petroleum	159
	3/16	125											
	3/16	175	4219BD Bio-Diesel Fuel Hose	24	0.41	C1	J	1	.06	-40°F -40°C	+302°F +150°C	Engine & Marine	80
FOOD & BEVERAGE			C5C-XH XTreme™ Heat Hydraulic Hose - SAE 100R5	—	0.52	J		3.40	.15	-40°F -40°C	+302°F 150°C	Engine & Marine	86
	3/16	3000											
MATERIAL HANDLING			Windshield Washer And Vacuum Hose (Non-Reinforced)	24	0.42	P	P	2	3.66	-40°F -40°C	+257°F +125°C	Engine & Marine	96
	7/32	25											
	7/32	300	Data Master™ Cooling	—	0.40	P1	P	1	.05	-40°F -40°C	+212°F +100°C	Data Center	78
MINING			Windshield Washer And Vacuum Hose (Non-Reinforced)	24	0.45	P	P	2	3.95	-40°F -40°C	+257°F +125°C	Engine & Marine	96
	1/4	25											
OILFIELD			4219BG Barricade™ Fuel Hose (35-50)	24	0.50	C1	C	3	.11	-40°F -40°C	+275°F +125°C	Engine & Marine	82
	1/4	50											
	1/4	50	4219G Fuel Line (35-50)	24	0.50	C	C2	3	.10	-40°F -40°C	+257°F +125°C	Engine & Marine	84
PETROLEUM			Food Master™ PVC (20-65) Clear Tubing	—	0.38	G	G	—	.03	-25°F -31°C	+150°F +65°C	Food & Beverage	108
	1/4	55											
	1/4	60	Food Master™ PVC (20-65) Clear Tubing	—	0.50	G	G	—	.08	-25°F -31°C	+150°F +65°C	Food & Beverage	108
PRESSURE WASH & WASHDOWN			LPG Vapor 125 Hose	30	0.53	C	A	3	.11	-30°F -34°C	+150°F +66°C	Petroleum	159
	1/4	125											
	1/4	175	4219BD Bio-Diesel Fuel Hose	24	0.51	C1	J	1	.09	-40°F -40°C	+302°F +150°C	Engine & Marine	80
STEAM			4219D Higher Temperature and Pressure Fuel Line Hose	24	0.50	J	J	3	.10	-40°F -40°C	+275°F +135°C	Engine & Marine	83
	1/4	180											
	1/4	200	Ag Master™ (200 - 250) Hose	30	0.50	P	P	3	.09	-40°F -40°C	+200°F +93°C	Agriculture	39
WATER			Plant Master™ Hose (150-200) - Black	30	0.50	P	P	3	.09	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	60
	1/4	200											
	1/4	200	Plant Master™ Hose (150-200) - Red	30	0.50	P	P	3	.08	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	61
COUPLINGS & CLAMPS			4219BF Barricade™ Fuel Injection Fuel Hose 225	24	0.50	C1	J	3	.10	-40°F -40°C	+275°F +135°C	Engine & Marine	81
	1/4	225											
	1/4	250	Data Center Cooling	28	0.50	P1	P	3	.09	-40°F -40°C	+257°F +125°C	Data Center	77
CHEMICAL RESISTANCE TABLE			Food Master™ PVC (75-250) Clear Tubing Braid	—	0.47	G	G	—	.07	-10°F -23°C	+130°F +55°C	Food & Beverage	109
	1/4	250											
	1/4	250	Plant Master™ 250 Hose - Black	30	0.50	P	P	3	.08	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	58
PROPER HOSE SELECTION			Plant Master™ 250 Hose - Colors	30	0.50	P	P	3	.08	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	59
	1/4	250											
	1/4	250	Plant Master™ Plus Hose (200 - 300)	30	0.50	B1	D3	2	.09	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	55
HOSE FINDER			Plant Master™ XTreme™ Hose (250 - 315)	30	0.50	C	C2	2	.09	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	51
	1/4	250											



Hose I.D. (in)	Rated W.P. (psi)	Name	Vacuum (In. Hg.)	Hose O.D. (in)	Tube Type	Cover Type	MBR (in)	Wt. (lbs/ft)	Temp Min.	Temp Max.	Hose Categories	Catalog Page No.
1/4	300	Data Master™ Cooling	28	0.49	P1	P	1	.07	-40°F -40°C	+212°F +100°C	Data Center	78
1/4	300	Plant Master™ 300 Hose	30	0.53	P	P	3	.10	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	57
1/4	300	Plant Master™ Plus 300 Lock-On Hose	30	0.54	C	A; C2	3	.11	-20°F -29°C	+212°F +100°C	Air & Multi-Purpose	54
1/4	300	Plant Master™ Plus Hose (200 - 300)	30	0.57	B1	P; D3	2	.12	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	55
1/4	300	Plant Master™ XTreme™ 300 AR Hose	30	0.53	C	C4	2	.10	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	53
1/4	300	Plant Master™ XTreme™ 300 Lock-On Braid Hose	28	0.47	C	C2	3	.09	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	50
1/4	315	Plant Master™ XTreme™ Hose (250 - 315)	30	0.57	C	C2	2	.12	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	51
1/4	325	Plant Master™ XTreme™ 325 Braid Hose	30	0.50	C	A; C2	3	.09	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	48
1/4	350	Fuel Master™ LP350 Hose	30	0.58	C; A	A	3	.14	-40°F -40°C	+180°F +82°C	Petroleum	157
1/4	500	Air Master™ Respirator 500 Hose	—	0.51	C	A	3	.13	-20°F -40°C	+120°F +49°C	Air Breathing	46
1/4	500	Air Master™ SCUBA 500 Hose	—	0.51	C	A; C2	3	.09	-20°F -40°C	+120°F +49°C	Air Breathing	45
1/4	500	C5M Marine Fuel Line Hose	24	0.58	C	C2; M	1.30	.21	-4°F -20°C	+212°F +100°C	Engine & Marine	85
1/4	501	Plant Master™ XTreme™ 501 AR Hose	30	0.57	C	C4	3	.12	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	49
1/4	3000	C5C-XH XTreme™ Heat Hydraulic Hose - SAE 100R5	—	0.58	J		3.40	.19	-40°F -40°C	+302°F 150°C	Engine & Marine	86
1/4	4000	Clean Master™ Pressure Wash 4000 Hose	30	0.53	C	C2	2	.13	-40°F -40°C	+250°F +121°C	Pressure Wash & Washdown	164
1/4	6000	Clean Master™ Plus Pressure Wash 6000 Hose	30	0.52	C	C2	2	.17	-40°F -40°C	+300°F +150°C	Pressure Wash & Washdown	166
5/16	25	Windshield Washer And Vacuum Hose (Non-Reinforced)	24	0.50	P	P	3	1.74	-40°F -40°C	+257°F +125°C	Engine & Marine	96
5/16	50	4219BG Barricade™ Fuel Hose (35-50)	24	0.56	C1	C	3	.11	-40°F -40°C	+275°F +125°C	Engine & Marine	82
5/16	50	4219G Fuel Line (35-50)	24	0.56	C	C2	3	.12	-40°F -40°C	+257°F +125°C	Engine & Marine	84
5/16	50	Food Master™ PVC (20-65) Clear Tubing	—	0.44	G	G	—	.04	-25°F -31°C	+150°F +65°C	Food & Beverage	108
5/16	60	Food Master™ PVC (20-65) Clear Tubing	—	0.56	G	G	—	.10	-25°F -31°C	+150°F +65°C	Food & Beverage	108
5/16	63	4230T Coolant Hose	10	0.62	P	P	3	.15	-40°F -40°C	+257°F +125°C	Engine & Marine	94
5/16	175	4219BD Bio-Diesel Fuel Hose	24	0.53	C1	J	2	.11	-40°F -40°C	+302°F +150°C	Engine & Marine	80
5/16	180	4219D Higher Temperature and Pressure Fuel Line Hose	24	0.57	J	J	3	.12	-40°F -40°C	+275°F +135°C	Engine & Marine	83
5/16	200	Plant Master™ Hose (150-200) - Black	30	0.53	P	P	3	.09	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	60
5/16	200	Plant Master™ Hose (150-200) - Red	30	0.53	P	P	3	.09	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	61
5/16	225	4219BF Barricade™ Fuel Injection Fuel Hose 225	24	0.56	C1	J	3	.11	-40°F -40°C	+275°F +135°C	Engine & Marine	81
5/16	250	Plant Master™ XTreme™ Hose (250 - 315)	30	0.56	C	C2	2	.11	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	51
5/16	315	Plant Master™ XTreme™ Hose (250 - 315)	30	0.67	C	C2	2	.16	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	51
5/16	325	Plant Master™ XTreme™ 325 Braid Hose	30	0.62	C	A; C2	3	.13	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	48
5/16	500	Air Master™ SCUBA 500 Hose	—	0.56	C	A; C2	3	.01	-20°F -40°C	+120°F +49°C	Air Breathing	45
5/16	500	C5M Marine Fuel Line Hose	24	0.67	C	C2; M	1.30	.27	-4°F -20°C	+212°F +100°C	Engine & Marine	85

TECHNICAL DATA

AGRICULTURE

AIR BREATHING

AIR DUCT

AIR & MULTI-PURPOSE

CHEMICAL

DATA CENTER

ENGINE & MARINE

FOOD & BEVERAGE

MATERIAL HANDLING

MINING

OILFIELD

PETROLEUM

PRESSURE WASH & WASHDOWN

STEAM

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COUPLINGS & CLAMPS

CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

HOSE FINDER

TECHNICAL DATA	Hose I.D. (in)	Rated W.P. (psi)	Name	Vacuum (In. Hg.)	Hose O.D. (in)	Tube Type	Cover Type	MBR (in)	Wt. (lbs/ft)	Temp Min.	Temp Max.	Hose Categories	Catalog Page No.
AGRICULTURE													
AIR BREATHING	5/16	2250	C5C-XH XTreme™ Heat Hydraulic Hose - SAE 100R5	—	0.67	J		4.00	.22	-40°F -40°C	+302°F 150°C	Engine & Marine	86
AIR DUCT	3/8	25	Windshield Washer And Vacuum Hose (Non-Reinforced)	24	0.63	P	P	3	3.60	-40°F -40°C	+257°F +125°C	Engine & Marine	96
AIR & MULTI-PURPOSE	3/8	45	Food Master™ PVC (20-65) Clear Tubing	—	0.50	G	G	—	.06	-25°F -31°C	+150°F +65°C	Food & Beverage	108
	3/8	50	4219BG Barricade™ Fuel Hose (35-50)	24	0.62	C1	C	4	.12	-40°F -40°C	+275°F +125°C	Engine & Marine	82
CHEMICAL	3/8	50	4219G Fuel Line (35-50)	24	0.62	C	C2	4	.15	-40°F -40°C	+257°F +125°C	Engine & Marine	84
	3/8	55	Food Master™ PVC (20-65) Clear Tubing	—	0.63	G	G	—	.12	-25°F -31°C	+150°F +65°C	Food & Beverage	108
DATA CENTER	3/8	63	4230T Coolant Hose	10	0.69	P	P	3	.17	-40°F -40°C	+257°F +125°C	Engine & Marine	94
	3/8	175	4219BD Bio-Diesel Fuel Hose	24	0.63	C1	J	2	.09	-40°F -40°C	+302°F +150°C	Engine & Marine	80
ENGINE & MARINE	3/8	180	4219D Higher Temperature and Pressure Fuel Line Hose	24	0.62	J	J	4	.15	-40°F -40°C	+275°F +135°C	Engine & Marine	83
	3/8	200	Ag Master™ (200 - 250) Hose	30	0.66	P	P	3	.15	-40°F -40°C	+200°F +93°C	Agriculture	39
FOOD & BEVERAGE	3/8	200	Food Master™ PVC (75-250) Clear Tubing Braid	—	0.63	G	G	—	.11	-10°F -23°C	+130°F +55°C	Food & Beverage	109
	3/8	200	Plant Master™ Hose (150-200) - Black	30	0.66	P	P	3	.14	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	60
MATERIAL HANDLING	3/8	200	Plant Master™ Hose (150-200) - Red	30	0.66	P	P	3	.14	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	61
	3/8	225	4219BF Barricade™ Fuel Injection Fuel Hose 225	24	0.62	C1	J	4	.13	-40°F -40°C	+275°F +135°C	Engine & Marine	81
MINING	3/8	250	Plant Master™ 250 Hose - Black	30	0.66	P	P	3	.14	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	58
	3/8	250	Plant Master™ 250 Hose - Black	30	0.66	P	P	3.00	7.43	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	58
OILFIELD	3/8	250	Plant Master™ 250 Hose - Colors	30	0.66	P	P	3	.14	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	59
	3/8	250	Plant Master™ Plus Hose (200 - 300)	30	0.66	B1	P; D3	3	.14	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	55
PETROLEUM	3/8	250	Plant Master™ Steam 250 Hose	30	0.78	P2	P2	4	.26	-40°F -40°C	+450°F +232°C	Steam	175
	3/8	250	Plant Master™ Steam Plus 250 Hose	30	0.80	P2	B1	4	.30	-40°F -40°C	+450°F +232°C	Steam	174
PRESSURE WASH & WASHDOWN	3/8	250	Plant Master™ XTreme™ Hose (250 - 315)	30	0.66	C	C2	3	.14	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	51
STEAM	3/8	300	Data Master™ Cooling	28	0.61	P1	P	2	.10	-40°F -40°C	+212°F +100°C	Data Center	78
	3/8	300	Plant Master™ 300 Hose	30	0.67	P	P	3	.15	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	57
WATER	3/8	300	Plant Master™ 300 Hose	30	0.69	P	P	3	.15	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	57
	3/8	300	Plant Master™ 300 NC Hose	30	0.75	P	P	3	.19	-20°F -29°C	+150°F +66°C	Air & Multi-Purpose	62
COUPLINGS & CLAMPS	3/8	300	Plant Master™ Plus 300 Lock-On Hose	30	0.68	C	A; C2	3	.14	-20°F -29°C	+212°F +100°C	Air & Multi-Purpose	54
	3/8	300	Plant Master™ Plus Hose (200 - 300)	30	0.73	B1	P; D3	3	.18	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	55
CHEMICAL RESISTANCE TABLE	3/8	300	Plant Master™ XTreme™ 300 AR Hose	30	0.70	C	C4	3	.16	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	53
	3/8	300	Plant Master™ XTreme™ 300 Lock-On Braid Hose	28	0.63	C	C2	3	.11	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	50
PROPER HOSE SELECTION	3/8	315	Plant Master™ XTreme™ Hose (250 - 315)	30	0.73	C	C2	3	.18	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	51
	3/8	325	Plant Master™ XTreme™ 325 Braid Hose	30	0.69	C	A; C2	3	.15	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	48
HOSE FINDER	3/8	350	Chem Master™ DEF Transfer Hose	—	0.67	P1	P	—	.16	-40°F -40°C	+212°F +100°C	Chemical	75



Hose I.D. (in)	Rated W.P. (psi)	Name	Vacuum (In. Hg.)	Hose O.D. (in)	Tube Type	Cover Type	MBR (in)	Wt. (lbs/ft)	Temp Min.	Temp Max.	Hose Categories	Catalog Page No.
3/8	350	Fuel Master™ LP350 Hose	30	0.70	C; A	A	3	8.84	-40°F -40°C	+180°F +82°C	Petroleum	157
3/8	350	Fuel Master™ LP350 Hose	30	0.74	C; A	A	3	.21	-40°F -40°C	+180°F +82°C	Petroleum	157
3/8	400	Data Center Cooling	28	0.66	P1	P	3	.13	-40°F -40°C	+257°F +125°C	Data Center	77
3/8	500	Air Master™ Diving Umbilical Hose (1000-1125)	30	0.75	C	A	4	.19	-20°F -40°C	+120°F +49°C	Air Breathing	44
3/8	501	Plant Master™ XTreme™ 501 AR Hose	25	0.75	C	C4	3	.19	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	49
3/8	600	Ag Master™ Spray	25	0.67	G	G	4	.12	-10°F -23°C	+130°F +55°C	Agriculture	38
3/8	800	Ag Master™ Spray	25	0.69	G	G	4	.14	-10°F -23°C	+130°F +55°C	Agriculture	38
3/8	1000	Clean Master™ Washdown 1000 Hose	30	0.73	C2	C2	4	.18	-40°F -40°C	+212°F +100°C	Pressure Wash & Washdown	169
3/8	3000	Clean Master™ Pressure Wash 3000 Hose	30	0.67	C	C2	3	.23	-40°F -40°C	+250°F +121°C	Pressure Wash & Washdown	163
3/8	4000	Clean Master™ Pressure Wash 4000 Hose	30	0.67	C	C2	3	.18	-40°F -40°C	+250°F +121°C	Pressure Wash & Washdown	164
3/8	6000	Clean Master™ Plus Pressure Wash 6000 Hose	30	0.68	C	C2	5	.26	-40°F -40°C	+300°F +150°C	Pressure Wash & Washdown	166
3/8	6000	Clean Master™ Plus Pressure Wash 6000 Hose	30	0.74	C	C2	5	.26	-40°F -40°C	+300°F +150°C	Pressure Wash & Washdown	166
13/32	500	C5M Marine Fuel Line Hose	24	0.77	C	C2; M	1.80	.33	-4°F -20°C	+212°F +100°C	Engine & Marine	85
13/32	2000	C5C-XH XTreme™ Heat Hydraulic Hose - SAE 100R5	—	0.77	J		4.60	.25	-40°F -40°C	+302°F 150°C	Engine & Marine	86
1/2	30	Food Master™ PVC (20-65) Clear Tubing	—	0.63	G	G	—	.07	-25°F -31°C	+150°F +65°C	Food & Beverage	108
1/2	35	4219BG Barricade™ Fuel Hose (35-50)	10	0.78	C1	C	5	.13	-40°F -40°C	+275°F +125°C	Engine & Marine	82
1/2	35	4219G Fuel Line (35-50)	10	0.78	C	C2	5	.18	-40°F -40°C	+257°F +125°C	Engine & Marine	84
1/2	45	Food Master™ PVC (20-65) Clear Tubing	—	0.75	G	G	—	.13	-25°F -31°C	+150°F +65°C	Food & Beverage	108
1/2	63	4230T Coolant Hose	10	0.81	P	P	4	.23	-40°F -40°C	+257°F +125°C	Engine & Marine	94
1/2	150	Bulk Master™ Sand Blast Hose (120-150) D	25	1.23	D3	D	5	.55	-40°F -40°C	+150°F +66°C	Material Handling	116
1/2	175	4219BD Bio-Diesel Fuel Hose	24	0.78	C1	J	2	.18	-40°F -40°C	+302°F +150°C	Engine & Marine	80
1/2	200	Ag Master™ (200 - 250) Hose	30	0.81	P	P	5	.19	-40°F -40°C	+200°F +93°C	Agriculture	39
1/2	200	Clean Master™ Washdown Hose 150-200	25	0.91	D; P	D; P	5	.28	-40°F -40°C	+212°F +100°C	Pressure Wash & Washdown	170
1/2	200	Food Master™ PVC (75-250) Clear Tubing Braid	—	0.75	G	G	—	.13	-10°F -23°C	+130°F +55°C	Food & Beverage	109
1/2	200	Plant Master™ Hose (150-200) - Black	25	0.81	P	P	5	.19	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	60
1/2	200	Plant Master™ Hose (150-200) - Red	25	0.81	P	P	5	.20	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	61
1/2	225	4219BF Barricade™ Fuel Injection Fuel Hose 225	10	0.78	C1	J	6	.19	-40°F -40°C	+275°F +135°C	Engine & Marine	81
1/2	250	Plant Master™ 250 Hose - Black	25	0.81	P	P	5	.19	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	58
1/2	250	Plant Master™ 250 Hose - Colors	25	0.81	P	P	5	.19	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	59
1/2	250	Plant Master™ Plus Hose (200 - 300)	25	0.81	B1	P; D3	4	.19	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	55
1/2	250	Plant Master™ Steam 250 Hose	20	1.02	P2	P2	7	.44	-40°F -40°C	+450°F +232°C	Steam	175
1/2	250	Plant Master™ Steam Plus 250 Hose	25	1.02	P2	B1	7	.45	-40°F -40°C	+450°F +232°C	Steam	174
1/2	250	Plant Master™ XTreme™ Hose (250 - 315)	25	0.85	C	C2	4	.22	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	51

TECHNICAL DATA

AGRICULTURE

AIR BREATHING

AIR DUCT

AIR & MULTI-PURPOSE

CHEMICAL

DATA CENTER

ENGINE & MARINE

FOOD & BEVERAGE

MATERIAL HANDLING

MINING

OILFIELD

PETROLEUM

PRESSURE WASH & WASHDOWN

STEAM

WATER

COUPLINGS & CLAMPS

CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

HOSE FINDER

TECHNICAL DATA	Hose I.D. (in)	Rated W.P. (psi)	Name	Vacuum (In. Hg.)	Hose O.D. (in)	Tube Type	Cover Type	MBR (in)	Wt. (lbs/ft)	Temp Min.	Temp Max.	Hose Categories	Catalog Page No.
AGRICULTURE													
AIR BREATHING	1/2	300	Data Master™ Cooling	28	0.74	P1	P	2	.13	-40°F -40°C	+212°F +100°C	Data Center	78
AIR DUCT	1/2	300	Plant Master™ 300 Hose	25	0.83	P	P	5	.20	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	57
AIR & MULTI-PURPOSE	1/2	300	Plant Master™ 300 NC Hose	25	0.88	P	P	5	.24	-20°F -29°C	+150°F +66°C	Air & Multi-Purpose	62
	1/2	300	Plant Master™ Plus 300 Lock-On Hose	30	0.81	C	A; C2	5	.18	-20°F -29°C	+212°F +100°C	Air & Multi-Purpose	54
	1/2	300	Plant Master™ Plus Hose (200 - 300)	25	0.84	B1	P; D3	4	.13	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	55
CHEMICAL	1/2	300	Plant Master™ XTreme™ 300 AR Hose	25	0.84	C	C4	4	.21	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	53
	1/2	300	Plant Master™ XTreme™ 300 Lock-On Braid Hose	28	0.77	C	C2	5	.15	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	50
DATA CENTER	1/2	315	Plant Master™ XTreme™ Hose (250 - 315)	25	0.88	C	C2	4	.24	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	51
ENGINE & MARINE	1/2	325	Plant Master™ XTreme™ 325 Braid Hose	25	0.84	C	A; C2	5	.20	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	48
	1/2	350	Chem Master™ DEF Transfer Hose	15	0.80	P1	P	3	.25	-40°F -40°C	+212°F +100°C	Chemical	75
FOOD & BEVERAGE	1/2	350	Fuel Master™ LP350 Hose	25	0.91	C; A	A	5	.28	-40°F -40°C	+180°F +82°C	Petroleum	157
	1/2	400	Data Center Cooling	28	0.94	P1	P	3	.02	-40°F -40°C	+257°F +125°C	Data Center	77
MATERIAL HANDLING	1/2	500	Air Master™ Diving Umbilical Hose (1000-1125)	30	0.94	C	A	5	.29	-20°F -40°C	+120°F +49°C	Air Breathing	44
	1/2	500	C5M Marine Fuel Line Hose	10	0.92	C	C2; M	2.30	.40	-4°F -20°C	+212°F +100°C	Engine & Marine	85
MINING	1/2	501	Plant Master™ XTreme™ 501 AR Hose	25	0.89	C	C4	5	.25	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	49
	1/2	600	Ag Master™ Spray	25	0.81	G	G	5	.17	-10°F -23°C	+130°F +55°C	Agriculture	38
OILFIELD	1/2	800	Ag Master™ Spray	25	0.84	G	G	5	.18	-10°F -23°C	+130°F +55°C	Agriculture	38
	1/2	1000	Clean Master™ Washdown 1000 Hose	30	0.94	C2	C2	5	.29	-40°F -40°C	+212°F +100°C	Pressure Wash & Washdown	169
PETROLEUM	1/2	1000	Mine Master™ Spray 1000	30	0.84	P	C2	5	.28	-40°F -40°C	+212°F +100°C	Mining	118
	1/2	1750	C5C-XH XTreme™ Heat Hydraulic Hose - SAE 100R5	—	0.92	J		5.50	.38	-40°F -40°C	+302°F 150°C	Engine & Marine	86
PRESSURE WASH & WASHDOWN	1/2	3000	Clean Master™ Pressure Wash 3000 Hose	30	0.79	C	C2	4	.24	-40°F -40°C	+250°F +121°C	Pressure Wash & Washdown	163
	1/2	4000	Clean Master™ Pressure Wash 4000 Hose	30	0.80	C	C2	4	.28	-40°F -40°C	+250°F +121°C	Pressure Wash & Washdown	164
STEAM	1/2	6000	Clean Master™ Plus Pressure Wash 6000 Hose	30	0.81	C	C2	5	.31	-40°F -40°C	+300°F +150°C	Pressure Wash & Washdown	166
	1/2	6000	Clean Master™ Plus Pressure Wash 6000 Hose	30	0.86	C	C2	5	.31	-40°F -40°C	+300°F +150°C	Pressure Wash & Washdown	166
WATER	5/8	25	Food Master™ PVC (20-65) Clear Tubing	—	0.75	G	G	—	.08	-25°F -31°C	+150°F +65°C	Food & Beverage	108
COUPLINGS & CLAMPS	5/8	35	4219G Fuel Line (35-50)	10	0.94	C	C2	6	.25	-40°F -40°C	+257°F +125°C	Engine & Marine	84
	5/8	40	Food Master™ PVC (20-65) Clear Tubing	—	0.88	G	G	—	.16	-25°F -31°C	+150°F +65°C	Food & Beverage	108
CHEMICAL RESISTANCE TABLE	5/8	63	4230T Coolant Hose	8	0.94	P	P	7	.25	-40°F -40°C	+257°F +125°C	Engine & Marine	94
	5/8	150	Fuel Master™ Curb Pump Hose 150	30	1.00	C	J	6	.37	-40°F -40°C	+120°F +49°C	Petroleum	160
PROPER HOSE SELECTION	5/8	175	4219BD Bio-Diesel Fuel Hose	24	0.92	C1	J	3	.24	-40°F -40°C	+302°F +150°C	Engine & Marine	80
	5/8	200	Ag Master™ (200 - 250) Hose	30	0.97	P	P	6	.26	-40°F -40°C	+200°F +93°C	Agriculture	39
	5/8	200	Food Master™ PVC (75-250) Clear Tubing Braid	—	0.88	G	G	—	.15	-10°F -23°C	+130°F +55°C	Food & Beverage	109
HOSE FINDER	5/8	200	Plant Master™ Hose (150-200) - Black	20	0.97	P	P	6	.26	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	60



Hose I.D. (in)	Rated W.P. (psi)	Name	Vacuum (In. Hg.)	Hose O.D. (in)	Tube Type	Cover Type	MBR (in)	Wt. (lbs/ft)	Temp Min.	Temp Max.	Hose Categories	Catalog Page No.
5/8	200	Plant Master™ Hose (150-200) - Red	20	0.97	P	P	6	.26	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	61
5/8	250	Plant Master™ 250 Hose - Colors	20	0.97	P	P	6	.26	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	59
5/8	250	Plant Master™ Plus Hose (200 - 300)	20	0.98	B1	P; D3	5	.27	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	55
5/8	250	Plant Master™ XTreme™ Hose (250 - 315)	20	0.98	C	C2	5	.27	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	51
5/8	300	Plant Master™ Plus Hose (200 - 300)	20	0.98	B1	P; D3	5	.30	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	55
5/8	300	Plant Master™ XTreme™ 300 Lock-On Braid Hose	28	0.94	C	C2	6	.20	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	50
5/8	315	Plant Master™ XTreme™ Hose (250 - 315)	20	0.98	C	C2	5	.30	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	51
5/8	325	Plant Master™ XTreme™ 325 Braid Hose	20	0.94	C	A; C2	6	.24	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	48
5/8	500	C5M Marine Fuel Line Hose	10	1.08	C	C2; M	2.80	.51	-4°F -20°C	+212°F +100°C	Engine & Marine	85
5/8	1500	C5C-XH XTreme™ Heat Hydraulic Hose - SAE 100R5	—	1.08	J		6.50	.44	-40°F -40°C	+302°F 150°C	Engine & Marine	86
3/4	20	Air Duct Hose SD	15	1.00	A	A	1	.20	-30°F -34°C	+250°F +121°C	Air Duct	47
3/4	35	4219G Fuel Line (35-50)	10	1.13	C	C2	7	.36	-40°F -40°C	+257°F +125°C	Engine & Marine	84
3/4	35	Food Master™ PVC (20-65) Clear Tubing	—	1.00	G	G	—	.19	-25°F -31°C	+150°F +65°C	Food & Beverage	108
3/4	45	Food Master™ PVC (20-65) Clear Tubing	—	1.25	G	G	—	.43	-25°F -31°C	+150°F +65°C	Food & Beverage	108
3/4	50	4230T Coolant Hose	7	1.06	P	P	8	.29	-40°F -40°C	+257°F +125°C	Engine & Marine	94
3/4	80	4175EC Coolant Hose	8	1.14	P	P	6	.37	-40°F -40°C	+257°F +125°C	Engine & Marine	89
3/4	150	4169A Coolant Hose	8	1.14	C	A	10	.34	-40°F -40°C	+212°F +100°C	Engine & Marine	91
3/4	150	Bulk Master™ Sand Blast Hose (120-150) D	15	1.50	D3	D	8	.70	-40°F -40°C	+150°F +66°C	Material Handling	116
3/4	150	Chem Master™ EPDM SD	30	1.27	P	P	3	.50	-40°F -40°C	+250°F +121°C	Chemical	74
3/4	150	Clean Master™ Washdown Hose 150-200	25	1.25	D; P	D; P	6	27.50	-20°F -29°C	+180°F +82°C	Pressure Wash & Washdown	170
3/4	150	Food Master™ Oils and Dairy Hose 150SD	30	1.29	C2	C2	2	.64	-40°F -40°C	+230°F +110°C	Food & Beverage	103
3/4	150	Food Master™ PVC (75-250) Clear Tubing Braid	—	1.03	G	G	—	.20	-10°F -23°C	+130°F +55°C	Food & Beverage	109
3/4	150	Fuel Master™ Curb Pump Hose 150	30	1.13	C	J	6	.42	-40°F -40°C	+120°F +49°C	Petroleum	160
3/4	150	Fuel Master™ Curb Pump Hose Up to E85	30	1.13	C	J	6	.42	-40°F -40°C	+120°F +49°C	Petroleum	161
3/4	150	Fuel Master™ Diesel Curb Pump Hose 150	30	1.13	C	J	6	.42	-40°F -40°C	+120°F +49°C	Petroleum	162
3/4	175	4219BD Bio-Diesel Fuel Hose	24	1.08	C1	J	3	.31	-40°F -40°C	+302°F +150°C	Engine & Marine	80
3/4	200	Ag Master™ (200 - 250) Hose	30	1.15	P	P	6	.32	-40°F -40°C	+200°F +93°C	Agriculture	39
3/4	200	Chem Master™ Plus UHMWPE (150-200) SD	30	1.22	L	P	4	.41	-40°F -40°C	+212°F +100°C	Chemical	70
3/4	200	Chem Master™ Plus XLPE SD - Black	30	1.25	K	P	4	.45	-40°F -40°C	+250°F +121°C	Chemical	67
3/4	200	Chem Master™ Plus XLPE SD - Colors	30	1.25	K	P	4	.46	-40°F -40°C	+250°F +121°C	Chemical	68
3/4	200	Chem Master™ XTreme™ FEP (125-200) SD	30	1.29	T	P	4	.52	-40°F -40°C	+300°F +149°C	Chemical	65
3/4	200	Chem Master™ XTreme™ FEP 200SD CR	20	1.33	T	P	4	.52	-40°F -40°C	+300°F +149°C	Chemical	66
3/4	200	Clean Master™ Washdown Hose 150-200	15	1.25	D; P	D; P	6	.49	-40°F -40°C	+212°F +100°C	Pressure Wash & Washdown	170

TECHNICAL DATA

AGRICULTURE

AIR BREATHING

AIR DUCT

AIR & MULTI-PURPOSE

CHEMICAL

DATA CENTER

ENGINE & MARINE

FOOD & BEVERAGE

MATERIAL HANDLING

MINING

OILFIELD

PETROLEUM

PRESSURE WASH & WASHDOWN

STEAM

WATER

COUPLINGS & CLAMPS

CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

HOSE FINDER

TECHNICAL DATA	Hose I.D. (in)	Rated W.P. (psi)	Name	Vacuum (In. Hg.)	Hose O.D. (in)	Tube Type	Cover Type	MBR (in)	Wt. (lbs/ft)	Temp Min.	Temp Max.	Hose Categories	Catalog Page No.
AGRICULTURE													
AIR BREATHING	3/4	200	Plant Master™ Hose (150-200) - Black	15	1.11	P	P	6	.23	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	60
AIR DUCT	3/4	200	Plant Master™ Hose (150-200) - Red	15	1.11	P	P	6	.31	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	61
AIR & MULTI-PURPOSE	3/4	250	Food Master™ XTreme™ Hose 250SD CR	30	1.22	S	P	2	.42	-40°F -40°C	+230°F +110°C	Food & Beverage	100
	3/4	250	Plant Master™ 250 Hose - Black	20	1.15	P	P	6	.35	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	58
	3/4	250	Plant Master™ 250 Hose - Colors	20	1.11	P	P	6	.35	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	59
CHEMICAL	3/4	250	Plant Master™ 250 Hose - Colors	20	1.15	P	P	6	.35	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	59
DATA CENTER	3/4	250	Plant Master™ Plus Hose (200 - 300)	20	1.15	B1	P; D3	5	.35	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	55
	3/4	250	Plant Master™ Steam 250 Hose	20	1.27	P2	P2	9	.53	-40°F -40°C	+450°F +232°C	Steam	175
ENGINE & MARINE	3/4	250	Plant Master™ Steam Plus 250 Hose	20	1.27	P2	B1	9	.60	-40°F -40°C	+450°F +232°C	Steam	174
	3/4	250	Plant Master™ XTreme™ Hose (250 - 315)	20	1.15	C	C2	5	.36	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	51
FOOD & BEVERAGE	3/4	250	Plant Master™ XTreme™ Hose (250 - 315)	30	1.15	C	C2	5	.30	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	51
	3/4	300	Chem Master™ Hydrocarbon Drain	30	1.13	C	J	6	.42	-40°F -40°C	+300°F +149°C	Chemical	76
MATERIAL HANDLING	3/4	300	Data Master™ Cooling	15	1.03	P1	P	3	.23	-40°F -40°C	+212°F +100°C	Data Center	78
	3/4	300	Plant Master™ 300 Hose	15	1.15	P	P	6	.35	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	57
MINING	3/4	300	Plant Master™ 300 NC Hose	20	1.16	P	P	6	.36	-20°F -29°C	+150°F +66°C	Air & Multi-Purpose	62
	3/4	300	Plant Master™ Plus Hose (200 - 300)	20	1.15	B1	P; D3	5	.36	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	55
OILFIELD	3/4	300	Plant Master™ XTreme™ 300 AR Hose	20	1.19	C	C4	5	.40	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	53
	3/4	300	Plant Master™ XTreme™ 300 Lock-On Braid Hose	15	1.06	C	C2	7	.24	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	50
PETROLEUM	3/4	315	Plant Master™ XTreme™ Hose (250 - 315)	20	1.19	C	C2	5	.39	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	51
	3/4	325	Plant Master™ XTreme™ 325 Braid Hose	20	1.09	C	A; C2	6	.29	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	48
PRESSURE WASH & WASHDOWN	3/4	350	Fuel Master™ LP350 Hose	20	1.23	C; A	A	6	.44	-40°F -40°C	+180°F +82°C	Petroleum	157
	3/4	500	Mine Master™ Air Drill 500	25	1.28	A	C2; D3	6	.41	-30°F -34°C	+212°F +100°C	Mining	121
STEAM	3/4	500	Mine Master™ Air Drill 500FR	25	1.11	C	C2	6	.41	-22°F -30°C	+180°F +82°C	Mining	122
	3/4	501	Plant Master™ XTreme™ 501 AR Hose	15	1.22	C	C4	6	.45	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	49
WATER	3/4	600	Ag Master™ Spray	25	1.08	G	G	6	.27	-10°F -23°C	+130°F +55°C	Agriculture	38
COUPLINGS & CLAMPS	3/4	800	Ag Master™ Spray	25	1.14	G	G	6	.30	-10°F -23°C	+130°F +55°C	Agriculture	38
	3/4	1000	Clean Master™ Washdown 1000 Hose	30	1.20	C2	C2	6	.38	-40°F -40°C	+212°F +100°C	Pressure Wash & Washdown	169
CHEMICAL RESISTANCE TABLE	3/4	1000	Mine Master™ Spray 1000	25	1.10	P	C2	8	.43	-40°F -40°C	+212°F +100°C	Mining	118
	7/8	10	Air Duct Hose SD	5	1.06	A	A	1	.26	-30°F -34°C	+250°F +121°C	Air Duct	47
PROPER HOSE SELECTION	7/8	75	4175EC Coolant Hose	7	1.26	P	P	7	.39	-40°F -40°C	+257°F +125°C	Engine & Marine	89
	7/8	150	4169A Coolant Hose	7	1.26	C	A	11	.38	-40°F -40°C	+212°F +100°C	Engine & Marine	91
	7/8	150	Fuel Master™ Curb Pump Hose 150	30	1.22	C	J	8	.42	-40°F -40°C	+120°F +49°C	Petroleum	160
HOSE FINDER	7/8	150	Fuel Master™ Diesel Curb Pump Hose 150	30	1.22	C	J	7	.42	-40°F -40°C	+120°F +49°C	Petroleum	162



Hose I.D. (in)	Rated W.P. (psi)	Name	Vacuum (In. Hg.)	Hose O.D. (in)	Tube Type	Cover Type	MBR (in)	Wt. (lbs/ft)	Temp Min.	Temp Max.	Hose Categories	Catalog Page No.
7/8	175	4176HD Coolant Hose	15	1.38	P	P	7	.58	-40°F -40°C	+257°F +125°C	Engine & Marine	90
7/8	500	C5M Marine Fuel Line Hose	10	1.23	C	C2; M	3.50	.62	-4°F -20°C	+212°F +100°C	Engine & Marine	85
7/8	800	C5C-XH XTreme™ Heat Hydraulic Hose - SAE 100R5	—	1.23	J		7.40	.48	-40°F -40°C	+302°F 150°C	Engine & Marine	86
1	10	Air Duct Hose SD	5	1.19	A	A	1	.28	-30°F -34°C	+250°F +121°C	Air Duct	47
1	20	Air Duct Hose SD	15	1.25	A	A	1	.26	-30°F -34°C	+250°F +121°C	Air Duct	47
1	25	Food Master™ PVC (20-65) Clear Tubing	—	1.25	G	G	—	.21	-25°F -31°C	+150°F +65°C	Food & Beverage	108
1	35	Food Master™ PVC (20-65) Clear Tubing	—	1.50	G	G	—	.54	-25°F -31°C	+150°F +65°C	Food & Beverage	108
1	40	Food Master™ PVC SD Clear	28	1.26	G	G	2	.14	-10°F -23°C	+130°F +55°C	Food & Beverage	110
1	44	4230T Coolant Hose	6	1.34	P	P	10	.40	-40°F -40°C	+257°F +125°C	Engine & Marine	94
1	80	Ag Master™ PVC Solution Hose (35-80) SD	28	1.34	P	G	4	.23	-30°F -34°C	+140°F +60°C	Agriculture	42
1	90	Ag Master™ PVC Solution Hose (30-90) SD Clear	28	1.27	G	G	3	.27	-10°F -23°C	+130°F +55°C	Agriculture	43
1	90	Engine Coolant Silicone	7	1.39	MQ	MQ	12	.40	-65°F -54°C	+347°F +175°C	Engine & Marine	93
1	100	Food Master™ PVC SD Clear	28	1.29	G	G	3	.30	-10°F -23°C	+130°F +55°C	Food & Beverage	110
1	100	Marine Master™ Plus Wet Exhaust (15-100) SD	25	1.46	C	A	3	.51	-40°F -40°C	+212°F +100°C	Engine & Marine	87
1	100	Wire Inserted Green Stripe™ Coolant Hose and Air Hose	25	1.46	P	P	2	2.50	-40°F -40°C	+257°F +125°C	Engine & Marine	92
1	125	Food Master™ PVC (75-250) Clear Tubing Braid	—	1.31	G	G	—	.32	-10°F -23°C	+130°F +55°C	Food & Beverage	109
1	135	4169A Coolant Hose	7	1.39	C	A	12	.43	-40°F -40°C	+212°F +100°C	Engine & Marine	91
1	138	4175EC Coolant Hose	7	1.39	P	P	8	.42	-40°F -40°C	+257°F +125°C	Engine & Marine	89
1	150	Black Gold™ Super-Vac™ Hose (60-150) SD	30	1.42	C	D	3	.52	-40°F -40°C	+180°F +82°C	Oilfield	134
1	150	Black Gold™ Super-Vac™ MegaFlex™ Hose (60-200) SD	30	1.37	C	D	1	.42	-40°F -40°C	+180°F +82°C	Oilfield	135
1	150	Bulk Master™ Sand Blast Hose (120-150) D	5	1.63	D3	D	12	.70	-40°F -40°C	+150°F +66°C	Material Handling	116
1	150	Bulk Master™ Sand Blast Hose (120-150) D	5	1.87	D3	D	12	.96	-40°F -40°C	+150°F +66°C	Material Handling	116
1	150	Clean Master™ Washdown Hose 150-200	15	1.50	D; P	D; P	8	33.50	-20°F -29°C	+180°F +82°C	Pressure Wash & Washdown	170
1	150	Food Master™ Oils and Dairy Hose 150SD	30	1.54	C2	C2	3	.79	-40°F -40°C	+230°F +110°C	Food & Beverage	103
1	150	Food Master™ Oils and Dairy Hose 150SD MegaFlex™	30	1.47	C2	C2	2	.58	-40°F -40°C	+230°F +110°C	Food & Beverage	104
1	150	Fuel Master™ 150SD MegaFlex™ Hose	30	1.41	C	A	1	.46	-40°F -40°C	+180°F +82°C	Petroleum	151
1	150	Fuel Master™ Curb Pump Hose 150	30	1.38	C	J.	8	.53	-40°F -40°C	+120°F +49°C	Petroleum	160
1	150	Fuel Master™ Diesel Curb Pump Hose 150	30	1.38	C	J	8	.53	-40°F -40°C	+120°F +49°C	Petroleum	162
1	150	Fuel Master™ Hose 150SD	30	1.50	C	A	3	.54	-40°F -40°C	+180°F +82°C	Petroleum	150
1	150	Fuel Master™ XTreme™ 150SD Hose	30	1.50	C	C2	3	.59	-30°F -34°C	+180°F +82°C	Petroleum	148
1	150	Plant Master™ Hose (150-200) - Black	10	1.40	P	P	8	.48	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	60
1	150	Plant Master™ Hose (150-200) - Red	10	1.39	P	P	8	.43	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	61
1	175	4176HD Coolant Hose	10	1.51	P	P	8	.62	-40°F -40°C	+257°F +125°C	Engine & Marine	90

TECHNICAL DATA

AGRICULTURE

AIR BREATHING

AIR DUCT

AIR & MULTI-PURPOSE

CHEMICAL

DATA CENTER

ENGINE & MARINE

FOOD & BEVERAGE

MATERIAL HANDLING

MINING

OILFIELD

PETROLEUM

PRESSURE WASH & WASHDOWN

STEAM

WATER

COUPLINGS & CLAMPS

CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

HOSE FINDER

TECHNICAL DATA	Hose I.D. (in)	Rated W.P. (psi)	Name	Vacuum (In. Hg.)	Hose O.D. (in)	Tube Type	Cover Type	MBR (in)	Wt. (lbs/ft)	Temp Min.	Temp Max.	Hose Categories	Catalog Page No.
AGRICULTURE													
AIR BREATHING	1	200	Ag Master™ (200 - 250) Hose	30	1.40	P	P	8	.44	-40°F -40°C	+200°F +93°C	Agriculture	39
AIR DUCT	1	200	Chem Master™ Plus CPE SD MegaFlex™	30	1.46	J	P	2	.51	-40°F -40°C	+275°F +135°C	Chemical	73
AIR & MULTI-PURPOSE	1	200	Chem Master™ Plus UHMWPE (150-200) SD	30	1.47	L	P	5	.51	-40°F -40°C	+212°F +100°C	Chemical	70
	1	200	Chem Master™ Plus UHMWPE 200SD CR	30	1.59	L	P	5	.60	-40°F -40°C	+212°F +100°C	Chemical	72
	1	200	Chem Master™ Plus XLPE 200SD CR	20	1.61	K	P	5	.56	-40°F -40°C	+250°F +121°C	Chemical	69
CHEMICAL	1	200	Chem Master™ Plus XLPE SD - Black	30	1.50	K	P	5	.56	-40°F -40°C	+250°F +121°C	Chemical	67
	1	200	Chem Master™ Plus XLPE SD - Colors	30	1.50	K	P	5	.54	-40°F -40°C	+250°F +121°C	Chemical	68
DATA CENTER	1	200	Chem Master™ XTreme™ FEP (125-200) SD	20	1.58	T	P	5	.83	-40°F -40°C	+300°F +149°C	Chemical	65
	1	200	Chem Master™ XTreme™ FEP (125-200) SD	30	1.56	T	P	5	.63	-40°F -40°C	+300°F +149°C	Chemical	65
ENGINE & MARINE	1	200	Chem Master™ XTreme™ FEP 200SD CR	20	1.58	T	P	5	.63	-40°F -40°C	+300°F +149°C	Chemical	66
FOOD & BEVERAGE	1	200	Clean Master™ Washdown Hose 150-200	15	1.52	D; P	D; P	8	.65	-40°F -40°C	+212°F +100°C	Pressure Wash & Washdown	170
	1	200	Fuel Master™ Delivery Hose 200	10	1.50	C	C4	8	.58	-40°F -40°C	+180°F +82°C	Petroleum	156
MATERIAL HANDLING	1	200	Plant Master™ Hose (150-200) - Black	10	1.40	P	P	8	.44	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	60
	1	200	Plant Master™ Hose (150-200) - Red	10	1.39	P	P	8	.48	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	61
MINING	1	200	Plant Master™ Hose (150-200) - Red	10	1.40	P	P	8	.45	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	61
	1	250	Black Gold™ ABS Chemical Plus XLPE 250SD	30	1.50	K	P	5	.56	-40°F -40°C	+250°F +121°C	Oilfield	125
OILFIELD	1	250	Data Center Cooling	10	1.36	P1	P	6	.39	-40°F -40°C	+257°F +125°C	Data Center	77
	1	250	Food Master™ XTreme™ Hose 250SD CR	30	1.48	S	P	3	.52	-40°F -40°C	+230°F +110°C	Food & Beverage	100
PETROLEUM	1	250	Plant Master™ 250 Hose - Colors	10	1.47	P	P	8	.62	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	59
	1	250	Plant Master™ Plus Hose (200 - 300)	10	1.47	B1	P; D3	8	.54	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	55
PRESSURE WASH & WASHDOWN	1	250	Plant Master™ Plus Hose (200 - 300)	25	1.48	B1	P; D3	4	.54	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	55
	1	250	Plant Master™ Steam 250 Hose	20	1.52	P2	P2	11	.70	-40°F -40°C	+450°F +232°C	Steam	175
STEAM	1	250	Plant Master™ Steam Plus 250 Hose	20	1.52	P2	B1	11	.73	-40°F -40°C	+450°F +232°C	Steam	174
	1	250	Plant Master™ XTreme™ Hose (250 - 315)	10	1.47	C	C2	8	.54	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	51
WATER	1	300	Black Gold™ Potable Water Hose (150-300) D	15	1.53	D2	P	10	.56	-40°F -40°C	+150°F +66°C	Oilfield	130
COUPLINGS & CLAMPS	1	300	Chem Master™ Hydrocarbon Drain	30	1.38	C	J	8	.53	-40°F -40°C	+300°F +149°C	Chemical	76
	1	300	Data Master™ Cooling	10	1.34	P1	P	4	.38	-40°F -40°C	+212°F +100°C	Data Center	78
CHEMICAL RESISTANCE TABLE	1	300	Plant Master™ 300 Hose	10	1.47	P	P	8	.54	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	57
	1	300	Plant Master™ 300 Hose	10	1.48	P	P	8	.59	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	57
	1	300	Plant Master™ XTreme™ 300 AR Hose	10	1.50	C	C4	8	.59	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	53
PROPER HOSE SELECTION	1	325	Plant Master™ XTreme™ 325 Braid Hose	10	1.38	C	A; C2	8	.41	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	48
	1	350	Fuel Master™ LP350 Hose	15	1.51	C; A	A	15	.63	-40°F -40°C	+180°F +82°C	Petroleum	157
HOSE FINDER	1	350	Fuel Master™ LP350 Hose	15	1.51	C; A	A	8	.60	-40°F -40°C	+180°F +82°C	Petroleum	157



Hose I.D. (in)	Rated W.P. (psi)	Name	Vacuum (In. Hg.)	Hose O.D. (in)	Tube Type	Cover Type	MBR (in)	Wt. (lbs/ft)	Temp Min.	Temp Max.	Hose Categories	Catalog Page No.
1	500	Mine Master™ Air Drill 500	25	1.55	A	C2; D3	8	.80	-30°F -34°C	+212°F +100°C	Mining	121
1	500	Mine Master™ Air Drill 500FR	25	1.45	C	C2	8	.65	-22°F -30°C	+180°F +82°C	Mining	122
1	501	Plant Master™ XTreme™ 501 AR Hose	10	1.51	C	C4	8	.57	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	49
1	1000	Mine Master™ Spray 1000	25	1.42	P	C2	11	.66	-40°F -40°C	+212°F +100°C	Mining	118
1	5000	Black Gold™ Slim Hole Rotary (1500-5000)	—	1.53	C	A	12	1.49	-40°F -40°C	+180°F +82°C	Oilfield	127
1 1/8	90	Engine Coolant Silicone	6	1.52	MQ	MQ	13	.44	-65°F -54°C	+347°F +175°C	Engine & Marine	93
1 1/8	100	Marine Master™ Plus Wet Exhaust (15-100) SD	25	1.56	C	A	4	.56	-40°F -40°C	+212°F +100°C	Engine & Marine	87
1 1/8	100	Wire Inserted Green Stripe™ Coolant Hose and Air Hose	25	1.58	P	P	3	5.30	-40°F -40°C	+257°F +125°C	Engine & Marine	92
1 1/8	125	4175EC Coolant Hose	6	1.52	P	P	8	.47	-40°F -40°C	+257°F +125°C	Engine & Marine	89
1 1/8	135	4169A Coolant Hose	6	1.55	C	A	13	.48	-40°F -40°C	+212°F +100°C	Engine & Marine	91
1 1/8	175	4176HD Coolant Hose	10	1.63	P	P	8	.68	-40°F -40°C	+257°F +125°C	Engine & Marine	90
1 1/8	625	C5C-XH XTreme™ Heat Hydraulic Hose - SAE 100R5	—	1.50	J		9.00	.52	-40°F -40°C	+302°F 150°C	Engine & Marine	86
1 1/4	5	Bulk Master™ Hose (4-20) SD	20	1.64	D3	D	5	.59	-40°F -40°C	+150°F +66°C	Material Handling	115
1 1/4	20	Air Duct Hose SD	15	1.50	A	A	1	.34	-30°F -34°C	+250°F +121°C	Air Duct	47
1 1/4	20	Food Master™ PVC (20-65) Clear Tubing	—	1.50	G	G	—	.28	-25°F -31°C	+150°F +65°C	Food & Beverage	108
1 1/4	40	Food Master™ PVC (20-65) Clear Tubing	—	1.75	G	G	—	.67	-25°F -31°C	+150°F +65°C	Food & Beverage	108
1 1/4	50	Ag Master™ PVC Solution Hose (30-90) SD Clear	28	1.61	G	G	3	.31	-10°F -23°C	+130°F +55°C	Agriculture	43
1 1/4	70	Ag Master™ PVC Solution Hose (35-80) SD	28	1.61	P	G	5	.30	-30°F -34°C	+140°F +60°C	Agriculture	42
1 1/4	85	Engine Coolant Silicone	5	1.64	MQ	MQ	14	.48	-65°F -54°C	+347°F +175°C	Engine & Marine	93
1 1/4	90	Food Master™ PVC SD Clear	28	1.56	G	G	4	.38	-10°F -23°C	+130°F +55°C	Food & Beverage	110
1 1/4	100	4175EC Coolant Hose	5	1.64	P	P	12	.51	-40°F -40°C	+257°F +125°C	Engine & Marine	89
1 1/4	100	Ag Master™ PVC XTreme™ Hose (90-100) SD	30	1.75	P	P	3	.45	-40°F -40°C	+140°F +66°C	Agriculture	41
1 1/4	100	Food Master™ PVC (75-250) Clear Tubing Braid	—	1.75	G	G	—	.63	-10°F -23°C	+130°F +55°C	Food & Beverage	109
1 1/4	100	Marine Master™ Plus Wet Exhaust (15-100) SD	25	1.69	C	A	4	.61	-40°F -40°C	+212°F +100°C	Engine & Marine	87
1 1/4	100	Mine Master™ Rock Dust 100SD	30	1.67	D	C2	6	.56	-40°F -40°C	+180°F +82°C	Mining	123
1 1/4	100	Wire Inserted Green Stripe™ Coolant Hose and Air Hose	25	1.71	P	P	3	3.13	-40°F -40°C	+257°F +125°C	Engine & Marine	92
1 1/4	125	4176HD Coolant Hose	10	1.76	P	P	12	.70	-40°F -40°C	+257°F +125°C	Engine & Marine	90
1 1/4	150	Black Gold™ Super-Vac™ Hose (60-150) SD	30	1.68	C	D	3	.67	-40°F -40°C	+180°F +82°C	Oilfield	134
1 1/4	150	Black Gold™ Super-Vac™ MegaFlex™ Hose (60-200) SD	30	1.63	C	D	2	.54	-40°F -40°C	+180°F +82°C	Oilfield	135
1 1/4	150	Bulk Master™ Sand Blast Hose (120-150) D	5	2.16	D3	D	12	1.12	-40°F -40°C	+150°F +66°C	Material Handling	116
1 1/4	150	Chem Master™ EPDM SD	30	1.79	P	P	4	.77	-40°F -40°C	+250°F +121°C	Chemical	74
1 1/4	150	Clean Master™ Washdown Hose 150-200	15	1.75	D; P	D; P	10	39.50	-20°F -29°C	+180°F +82°C	Pressure Wash & Washdown	170
1 1/4	150	Data Master™ MegaFlex™ Cooling	—	1.65	P1	P	2	.58	-40°F -40°C	+212°F +100°C	Data Center	79

TECHNICAL DATA

AGRICULTURE

AIR BREATHING

AIR DUCT

AIR & MULTI-PURPOSE

CHEMICAL

DATA CENTER

ENGINE & MARINE

FOOD & BEVERAGE

MATERIAL HANDLING

MINING

OILFIELD

PETROLEUM

PRESSURE WASH & WASHDOWN

STEAM

WATER

COUPLINGS & CLAMPS

CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

HOSE FINDER

TECHNICAL DATA	Hose I.D. (in)	Rated W.P. (psi)	Name	Vacuum (In. Hg.)	Hose O.D. (in)	Tube Type	Cover Type	MBR (in)	Wt. (lbs/ft)	Temp Min.	Temp Max.	Hose Categories	Catalog Page No.
AGRICULTURE													
AIR BREATHING	1 1/4	150	Fuel Master™ Hose 150SD	30	1.75	C	A	4	.71	-40°F -40°C	+180°F +82°C	Petroleum	150
AIR DUCT	1 1/4	150	Fuel Master™ XTreme™ 150SD Hose	30	1.75	C	C2	4	.70	-30°F -34°C	+180°F +82°C	Petroleum	148
AIR & MULTI-PURPOSE	1 1/4	200	Chem Master™ Plus UHMWPE (150-200) SD	30	1.72	L	P	6	.60	-40°F -40°C	+212°F +100°C	Chemical	70
	1 1/4	200	Chem Master™ Plus UHMWPE 200SD CR	30	1.84	L	P	6	.71	-40°F -40°C	+212°F +100°C	Chemical	72
	1 1/4	200	Chem Master™ Plus XLPE SD - Black	30	1.75	K	P	6	.70	-40°F -40°C	+250°F +121°C	Chemical	67
CHEMICAL	1 1/4	200	Chem Master™ Plus XLPE SD - Colors	30	1.75	K	P	6	.67	-40°F -40°C	+250°F +121°C	Chemical	68
	1 1/4	200	Chem Master™ XTreme™ FEP (125-200) SD	30	1.80	T	P	7	.74	-40°F -40°C	+300°F +149°C	Chemical	65
DATA CENTER	1 1/4	200	Fuel Master™ Delivery Hose 200	10	1.80	C	C4	10	.75	-40°F -40°C	+180°F +82°C	Petroleum	156
ENGINE & MARINE	1 1/4	250	Ag Master™ (200 - 250) Hose	30	1.73	P	P	10	.68	-40°F -40°C	+200°F +93°C	Agriculture	39
	1 1/4	250	Plant Master™ 250 Hose - Black	10	1.73	P	P	10	.86	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	58
FOOD & BEVERAGE	1 1/4	250	Plant Master™ Plus Hose (200 - 300)	10	1.73	B1	P; D3	10	.81	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	55
	1 1/4	250	Plant Master™ Steam 250 Hose	20	1.81	P2	P2	16	.90	-40°F -40°C	+450°F +232°C	Steam	175
MATERIAL HANDLING	1 1/4	250	Plant Master™ Steam Plus 250 Hose	20	1.81	P2	B1	16	1.04	-40°F -40°C	+450°F +232°C	Steam	174
	1 1/4	250	Plant Master™ XTreme™ Hose (250 - 315)	10	1.75	C	C2	10	.01	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	52
MINING	1 1/4	400	4169A Coolant Hose	5	1.64	C	A	14	.51	-40°F -40°C	+212°F +100°C	Engine & Marine	91
	1 1/4	500	Mine Master™ Air Drill 500	15	1.80	A	C2; D3	10	1.02	-30°F -34°C	+212°F +100°C	Mining	121
OILFIELD	1 1/4	500	Mine Master™ Air Drill 500FR	15	1.74	C	C2	10	.85	-22°F -30°C	+180°F +82°C	Mining	122
	1 1/4	501	Plant Master™ XTreme™ 501 AR Hose	10	1.78	C	C4	10	.73	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	49
PETROLEUM	1 1/4	1000	Mine Master™ Spray 1000	20	1.69	P	C2	16	.81	-40°F -40°C	+212°F +100°C	Mining	118
	1 1/4	5000	Black Gold™ Slim Hole Rotary (1500-5000)	—	1.97	C	A	17	2.67	-40°F -40°C	+180°F +82°C	Oilfield	127
PRESSURE WASH & WASHDOWN	1 21/64	250	Plant Master™ 250 Hose - Black	10	1.57	P	P	10	.70	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	58
STEAM	1 3/8	15	Air Duct Hose SD	15	1.62	A	A	2	.44	-30°F -34°C	+250°F +121°C	Air Duct	47
	1 3/8	20	4663K Fuel Fill Hose - Corrugated	30	1.63	C	A	5	.38	-40°F -40°C	+212°F +100°C	Engine & Marine	95
WATER	1 3/8	85	Engine Coolant Silicone	4	1.76	MQ	MQ	26	.52	-65°F -54°C	+347°F +175°C	Engine & Marine	93
	1 3/8	85	Wire Inserted Green Stripe™ Coolant Hose and Air Hose	25	1.83	P	P	3	3.25	-40°F -40°C	+257°F +125°C	Engine & Marine	92
COUPLINGS & CLAMPS	1 3/8	100	4175EC Coolant Hose	4	1.76	P	P	12	.56	-40°F -40°C	+257°F +125°C	Engine & Marine	89
	1 3/8	110	4176HD Coolant Hose	10	1.88	P	P	12	.76	-40°F -40°C	+257°F +125°C	Engine & Marine	90
CHEMICAL RESISTANCE TABLE	1 3/8	200	Fuel Master™ Delivery Hose 200	10	1.89	C	C4	10	.86	-40°F -40°C	+180°F +82°C	Petroleum	156
	1 3/8	250	Plant Master™ Plus Hose (200 - 300)	10	1.88	B1	P; D3	11	.86	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	55
PROPER HOSE SELECTION	1 3/8	400	4169A Coolant Hose	4	1.76	C	A	25	.56	-40°F -40°C	+212°F +100°C	Engine & Marine	91
	1 1/2	5	Fuel Master™ PVC Vapor Recovery	—	1.88	U	G	2	.36	-30°F -34°C	+140°F +60°C	Petroleum	155
HOSE FINDER	1 1/2	6	Bulk Master™ Hose (4-20) SD	20	1.89	D3	D	6	.68	-40°F -40°C	+150°F +66°C	Material Handling	115
	1 1/2	15	Air Duct Hose SD	15	1.75	A	A	2	.48	-30°F -34°C	+250°F +121°C	Air Duct	47



Hose I.D. (in)	Rated W.P. (psi)	Name	Vacuum (In. Hg.)	Hose O.D. (in)	Tube Type	Cover Type	MBR (in)	Wt. (lbs/ft)	Temp Min.	Temp Max.	Hose Categories	Catalog Page No.
1 1/2	35	Food Master™ PVC (20-65) Clear Tubing	—	2.00	G	G	—	.85	-25°F -31°C	+150°F +65°C	Food & Beverage	108
1 1/2	50	Food Master™ PVC SD Clear	28	1.82	G	G	3	.37	-10°F -23°C	+130°F +55°C	Food & Beverage	110
1 1/2	60	Ag Master™ PVC Solution Hose (35-80) SD	28	1.96	P	G	6	.49	-30°F -34°C	+140°F +60°C	Agriculture	42
1 1/2	75	Food Master™ PVC (75-250) Clear Tubing Braid	—	2.00	G	G	—	.74	-10°F -23°C	+130°F +55°C	Food & Beverage	109
1 1/2	75	Water Master™ PVC Layflat Hose (45-75) D	—	1.67	G	G	—	.17	+25°F -4°C	+120°F +49°C	Water	178
1 1/2	85	Engine Coolant Silicone	3	1.89	MQ	MQ	30	.57	-65°F -54°C	+347°F +175°C	Engine & Marine	93
1 1/2	85	Marine Master™ Plus Wet Exhaust (15-100) SD	20	1.94	C	A	4	.70	-40°F -40°C	+212°F +100°C	Engine & Marine	87
1 1/2	85	Wire Inserted Green Stripe™ Coolant Hose and Air Hose	20	1.96	P	P	4	3.62	-40°F -40°C	+257°F +125°C	Engine & Marine	92
1 1/2	90	Ag Master™ PVC Solution Hose (30-90) SD Clear	28	1.82	G	G	5	.47	-10°F -23°C	+130°F +55°C	Agriculture	43
1 1/2	90	Food Master™ PVC SD Clear	28	1.84	G	G	5	.48	-10°F -23°C	+130°F +55°C	Food & Beverage	110
1 1/2	100	4175EC Coolant Hose	3	1.89	P	P	12	.60	-40°F -40°C	+257°F +125°C	Engine & Marine	89
1 1/2	100	Ag Master™ PVC XTreme™ Hose (90-100) SD	30	1.97	P	P	3	.50	-40°F -40°C	+140°F +66°C	Agriculture	41
1 1/2	100	Mine Master™ Rock Dust 100SD	30	1.92	D	C2	8	.66	-40°F -40°C	+180°F +82°C	Mining	123
1 1/2	112	4176HD Coolant Hose	10	2.01	P	P	12	.81	-40°F -40°C	+257°F +125°C	Engine & Marine	90
1 1/2	135	Bulk Master™ Sand Blast Hose (120-150) D	5	2.37	D3	D	18	1.56	-40°F -40°C	+150°F +66°C	Material Handling	116
1 1/2	150	Ag Master™ Solution Hose 150SD	30	1.86	P	P	6	.60	-40°F -40°C	+180°F +82°C	Agriculture	40
1 1/2	150	Black Gold™ Super-Vac™ Hose (60-150) SD	30	1.97	C	D	3	.77	-40°F -40°C	+180°F +82°C	Oilfield	134
1 1/2	150	Black Gold™ Super-Vac™ MegaFlex™ Hose (60-200) SD	30	1.88	C	D	2	.63	-40°F -40°C	+180°F +82°C	Oilfield	135
1 1/2	150	Chem Master™ EPDM SD	30	2.04	P	P	5	.89	-40°F -40°C	+250°F +121°C	Chemical	74
1 1/2	150	Data Master™ MegaFlex™ Cooling	—	1.95	P1	P	3	.75	-40°F -40°C	+212°F +100°C	Data Center	79
1 1/2	150	Food Master™ Beverage Hose 150SD CR	30	2.00	S; S	P	6	.65	-40°F -40°C	+212°F +100°C	Food & Beverage	102
1 1/2	150	Food Master™ Oils and Dairy Hose 150D	—	2.04	C2	C2	18	.97	-40°F -40°C	+230°F +110°C	Food & Beverage	105
1 1/2	150	Food Master™ Oils and Dairy Hose 150SD	30	2.05	C2	C2	5	1.10	-40°F -40°C	+230°F +110°C	Food & Beverage	103
1 1/2	150	Food Master™ Oils and Dairy Hose 150SD MegaFlex™	30	1.99	C2	C2	3	.87	-40°F -40°C	+230°F +110°C	Food & Beverage	104
1 1/2	150	Fuel Master™ 150SD MegaFlex™ Hose	30	1.90	C	A	2	.72	-40°F -40°C	+180°F +82°C	Petroleum	151
1 1/2	150	Fuel Master™ Hose 150SD	30	2.02	C	A	4	1.05	-40°F -40°C	+180°F +82°C	Petroleum	150
1 1/2	150	Fuel Master™ XTreme™ 150SD MegaFlex™ Hose	30	2.02	C	C2	4	.75	-30°F -34°C	+180°F +82°C	Petroleum	149
1 1/2	150	Water Master™ Plus PVC Layflat Hose (100-150) D	—	1.71	G	G	—	.23	-10°F -23°C	+150°F +66°C	Water	179
1 1/2	200	Chem Master™ Plus CPE SD MegaFlex™	30	1.92	J	P	3	.75	-40°F -40°C	+275°F +135°C	Chemical	73
1 1/2	200	Chem Master™ Plus UHMWPE (150-200) SD	30	2.00	L	P	8	.78	-40°F -40°C	+212°F +100°C	Chemical	70
1 1/2	200	Chem Master™ Plus UHMWPE 200SD CR	30	2.09	L	P	8	.82	-40°F -40°C	+212°F +100°C	Chemical	72
1 1/2	200	Chem Master™ Plus XLPE 200SD CR	20	2.13	K	P	8	.87	-40°F -40°C	+250°F +121°C	Chemical	69
1 1/2	200	Chem Master™ Plus XLPE SD - Black	30	2.04	K	P	8	.70	-40°F -40°C	+250°F +121°C	Chemical	67

TECHNICAL DATA

AGRICULTURE

AIR BREATHING

AIR DUCT

AIR & MULTI-PURPOSE

CHEMICAL

DATA CENTER

ENGINE & MARINE

FOOD & BEVERAGE

MATERIAL HANDLING

MINING

OILFIELD

PETROLEUM

PRESSURE WASH & WASHDOWN

STEAM

WATER

COUPLINGS & CLAMPS

CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

HOSE FINDER

TECHNICAL DATA	Hose I.D. (in)	Rated W.P. (psi)	Name	Vacuum (In. Hg.)	Hose O.D. (in)	Tube Type	Cover Type	MBR (in)	Wt. (lbs/ft)	Temp Min.	Temp Max.	Hose Categories	Catalog Page No.
AGRICULTURE													
AIR BREATHING	1 1/2	200	Chem Master™ Plus XLPE SD - Colors	30	2.04	K	P	8	.87	-40°F -40°C	+250°F +121°C	Chemical	68
AIR DUCT	1 1/2	200	Chem Master™ XTreme™ FEP (125-200) SD	30	2.05	T	P	8	.93	-40°F -40°C	+300°F +149°C	Chemical	65
AIR & MULTI-PURPOSE	1 1/2	200	Chem Master™ XTreme™ FEP 200SD CR	20	2.08	T	P	10	.86	-40°F -40°C	+300°F +149°C	Chemical	66
	1 1/2	200	Chem Master™ XTreme™ FEP 200SD CR	20	2.08	T	P	8	.86	-40°F -40°C	+300°F +149°C	Chemical	66
	1 1/2	200	Fuel Master™ Delivery Hose 200	10	2.08	C	C4	12	.95	-40°F -40°C	+180°F +82°C	Petroleum	156
CHEMICAL	1 1/2	200	MIL Low Pressure Fuel and Oil Hose	—	1.77	A	A	12	.71	-40°F -40°C	+250°F +121°C	Engine & Marine	88
DATA CENTER	1 1/2	250	Ag Master™ (200 - 250) Hose	30	1.98	P	P	12	.79	-40°F -40°C	+200°F +93°C	Agriculture	39
	1 1/2	250	Food Master™ XTreme™ Hose 250SD CR	30	2.07	S	P	5	.89	-40°F -40°C	+230°F +110°C	Food & Beverage	100
ENGINE & MARINE	1 1/2	250	Plant Master™ 250 Hose - Black	10	1.97	P	P	12	.79	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	58
	1 1/2	250	Plant Master™ 250 Hose - Black	10	1.98	P	P	12	.79	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	58
FOOD & BEVERAGE	1 1/2	250	Plant Master™ Plus Hose (200 - 300)	10	1.98	B1	P; D3	12	.79	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	55
	1 1/2	250	Plant Master™ Steam 250 Hose	10	2.14	P2	P2	20	1.21	-40°F -40°C	+450°F +232°C	Steam	175
MATERIAL HANDLING	1 1/2	250	Plant Master™ Steam Plus 250 Hose	10	2.18	P2	B1	20	1.24	-40°F -40°C	+450°F +232°C	Steam	174
	1 1/2	250	Plant Master™ XTreme™ Hose (250 - 315)	10	2.00	C	C2	12	.85	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	52
MINING	1 1/2	350	Fuel Master™ LP350 Hose	10	2.25	C; A	A	12	1.26	-40°F -40°C	+180°F +82°C	Petroleum	157
	1 1/2	400	4169A Coolant Hose	3	1.89	C	A	30	.60	-40°F -40°C	+212°F +100°C	Engine & Marine	91
OILFIELD	1 1/2	500	Mine Master™ Air Drill 500	15	2.21	A	C2; D3	12	1.42	-30°F -34°C	+212°F +100°C	Mining	121
	1 1/2	500	Mine Master™ Air Drill 500FR	15	1.99	C	C2	12	1.00	-22°F -30°C	+180°F +82°C	Mining	122
PETROLEUM	1 1/2	501	Plant Master™ XTreme™ 501 AR Hose	10	2.09	C	C4	12	.96	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	49
	1 1/2	600	Mine Master™ Air Drill 600HT	—	2.02	J	J	12	1.13	-40°F -40°C	+300°F +149°C	Mining	120
PRESSURE WASH & WASHDOWN	1 1/2	1000	Mine Master™ Spray 1000	15	1.92	P	C2	18	1.07	-40°F -40°C	+212°F +100°C	Mining	118
	1 1/2	5000	Black Gold™ Slim Hole Rotary (1500-5000)	—	2.26	C	A	20	3.33	-40°F -40°C	+180°F +82°C	Oilfield	127
STEAM	1 5/8	75	Marine Master™ Plus Wet Exhaust (15-100) SD	20	2.07	C	A	5	.75	-40°F -40°C	+212°F +100°C	Engine & Marine	87
	1 5/8	85	4169A Coolant Hose	2	2.02	C	A	—	.63	-40°F -40°C	+212°F +100°C	Engine & Marine	91
	1 5/8	88	4175EC Coolant Hose	2	2.02	P	P	15	.63	-40°F -40°C	+257°F +125°C	Engine & Marine	89
COUPLINGS & CLAMPS	1 5/8	106	4176HD Coolant Hose	7	2.13	P	P	14	.87	-40°F -40°C	+257°F +125°C	Engine & Marine	90
	1 5/8	150	Water Master™ Slurry Hose 150D AR	—	2.10	D	D	15	.74	-40°F -40°C	+150°F +66°C	Water	176
CHEMICAL RESISTANCE TABLE	1 3/4	75	4169A Coolant Hose	1	2.14	C	A	—	.68	-40°F -40°C	+212°F +100°C	Engine & Marine	91
	1 3/4	75	4175EC Coolant Hose	1	2.14	P	P	15	.67	-40°F -40°C	+257°F +125°C	Engine & Marine	89
	1 3/4	75	Marine Master™ Plus Wet Exhaust (15-100) SD	20	2.20	C	A	5	.80	-40°F -40°C	+212°F +100°C	Engine & Marine	87
PROPER HOSE SELECTION	1 3/4	75	Wire Inserted Green Stripe™ Coolant Hose and Air Hose	20	2.21	P	P	4	5.07	-40°F -40°C	+257°F +125°C	Engine & Marine	92
	1 3/4	150	MIL Low Pressure Fuel and Oil Hose	—	2.02	A	A	16	.81	-40°F -40°C	+250°F +121°C	Engine & Marine	88
HOSE FINDER	1 3/4	400	4176HD Coolant Hose	5	2.26	P	P	15	.93	-40°F -40°C	+257°F +125°C	Engine & Marine	90



Hose I.D. (in)	Rated W.P. (psi)	Name	Vacuum (In. Hg.)	Hose O.D. (in)	Tube Type	Cover Type	MBR (in)	Wt. (lbs/ft)	Temp Min.	Temp Max.	Hose Categories	Catalog Page No.
1 7/8	15	Air Duct Hose SD	15	2.12	A	A	2	.58	-30°F -34°C	+250°F +121°C	Air Duct	47
1 7/8	20	4663K Fuel Fill Hose - Corrugated	30	2.14	C	A	6	.50	-40°F -40°C	+212°F +100°C	Engine & Marine	95
1 7/8	75	4169A Coolant Hose	—	2.26	C	A	—	.73	-40°F -40°C	+212°F +100°C	Engine & Marine	91
1 7/8	75	4175EC Coolant Hose	—	2.26	P	P	—	.72	-40°F -40°C	+257°F +125°C	Engine & Marine	89
1 7/8	94	4176HD Coolant Hose	4	2.38	P	P	—	.98	-40°F -40°C	+257°F +125°C	Engine & Marine	90
2	5	Air Duct Hose SD	3	2.19	A	A	2	.55	-30°F -34°C	+250°F +121°C	Air Duct	47
2	5	Fuel Master™ PVC Vapor Recovery	—	2.43	U	G	2	.48	-30°F -34°C	+140°F +60°C	Petroleum	155
2	8	Bulk Master™ Hose (4-20) SD	20	2.39	D3	D	8	.75	-40°F -40°C	+150°F +66°C	Material Handling	115
2	20	4663K Fuel Fill Hose - Corrugated	30	2.25	C	A	7	.53	-40°F -40°C	+212°F +100°C	Engine & Marine	95
2	35	Bulk Master™ PVC Hose (25-40) SD AR	28	2.41	D	G	4	.54	-30°F -34°C	+140°F +60°C	Material Handling	117
2	35	Food Master™ PVC (20-65) Clear Tubing	—	2.50	G	G	—	.85	-25°F -31°C	+150°F +65°C	Food & Beverage	108
2	40	Food Master™ PVC Dry Goods Hose (35-40) SD Clear	28	2.37	G	G	4	.58	-10°F -23°C	+130°F +55°C	Food & Beverage	111
2	40	Food Master™ PVC SD Clear	28	2.44	G	G	4	.57	-10°F -23°C	+130°F +55°C	Food & Beverage	110
2	60	4169A Coolant Hose	—	2.39	C	A	—	.77	-40°F -40°C	+212°F +100°C	Engine & Marine	91
2	60	Ag Master™ PVC Solution Hose (35-80) SD	28	2.49	P	G	9	.69	-30°F -34°C	+140°F +60°C	Agriculture	42
2	60	Bulk Master™ Plus Hose (35-150) SD	30	2.77	D3	D	16	1.74	-40°F -40°C	+150°F +66°C	Material Handling	113
2	60	Wire Inserted Green Stripe™ Coolant Hose and Air Hose	20	2.46	P	P	5	5.07	-40°F -40°C	+257°F +125°C	Engine & Marine	92
2	62	4175EC Coolant Hose	—	2.39	P	P	—	.76	-40°F -40°C	+257°F +125°C	Engine & Marine	89
2	62	Marine Master™ Plus Wet Exhaust (15-100) SD	20	2.45	C	A	5	.90	-40°F -40°C	+212°F +100°C	Engine & Marine	87
2	65	Water Master™ PVC Layflat Hose (45-75) D	—	2.16	G	G	—	.21	+25°F -4°C	+120°F +49°C	Water	178
2	70	Ag Master™ PVC Solution Hose (30-90) SD Clear	28	2.36	G	G	6	.66	-10°F -23°C	+130°F +55°C	Agriculture	43
2	70	Food Master™ PVC SD Clear	28	2.39	G	G	6	.71	-10°F -23°C	+130°F +55°C	Food & Beverage	110
2	75	Engine Coolant Silicone	—	2.39	MQ	MQ	—	.73	-65°F -54°C	+347°F +175°C	Engine & Marine	93
2	75	Food Master™ PVC (75-250) Clear Tubing Braid	—	2.50	G	G	—	1.00	-10°F -23°C	+130°F +55°C	Food & Beverage	109
2	88	4176HD Coolant Hose	3	2.51	P	P	—	1.00	-40°F -40°C	+257°F +125°C	Engine & Marine	90
2	100	Ag Master™ PVC XTreme™ Hose (90-100) SD	30	2.54	P	P	5	.73	-40°F -40°C	+140°F +66°C	Agriculture	41
2	100	Mine Master™ Rock Dust 100SD	30	2.41	D	C2	10	.89	-40°F -40°C	+180°F +82°C	Mining	123
2	100	Water Master™ PVC Hose (60-110) SD	28	2.60	G	G	4	.70	-13°F -25°C	+140°F +60°C	Water	177
2	120	Bulk Master™ Sand Blast Hose (120-150) D	5	2.94	D3	D	20	2.00	-40°F -40°C	+150°F +66°C	Material Handling	116
2	125	Bulk Master™ Hot Air Blower Hose (40-130) SD HT	30	2.58	P	P	9	1.00	-40°F -40°C	+350°F +177°C	Material Handling	114
2	150	Ag Master™ Solution Hose 150SD	30	2.36	P	P	8	.79	-40°F -40°C	+180°F +82°C	Agriculture	40
2	150	Black Gold™ Oilfield Vacuum Hose (100-150) SD	30	2.47	C	D	4	1.05	-40°F -40°C	+150°F +66°C	Oilfield	136
2	150	Black Gold™ Super-Vac™ Hose (60-150) SD	30	2.47	C	D	4	.94	-40°F -40°C	+180°F +82°C	Oilfield	134

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CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

HOSE FINDER

TECHNICAL DATA	Hose I.D. (in)	Rated W.P. (psi)	Name	Vacuum (In. Hg.)	Hose O.D. (in)	Tube Type	Cover Type	MBR (in)	Wt. (lbs/ft)	Temp Min.	Temp Max.	Hose Categories	Catalog Page No.
AGRICULTURE													
AIR BREATHING	2	150	Black Gold™ Super-Vac™ MegaFlex™ Hose (60-200) SD	30	2.39	C	D	2	.80	-40°F -40°C	+180°F +82°C	Oilfield	135
AIR DUCT	2	150	Chem Master™ EPDM SD	30	2.54	P	P	6	1.07	-40°F -40°C	+250°F +121°C	Chemical	74
	2	150	Data Master™ MegaFlex™ Cooling	—	2.40	P1	P	3	.60	-40°F -40°C	+212°F +100°C	Data Center	79
AIR & MULTI-PURPOSE	2	150	Food Master™ Dry Goods Hose (50-150) SD	30	2.75	D2	P	12	1.76	-40°F -40°C	+150°F +66°C	Food & Beverage	106
	2	150	Food Master™ Oils and Dairy Hose 150D	—	2.54	C2	C2	24	1.25	-40°F -40°C	+230°F +110°C	Food & Beverage	105
CHEMICAL	2	150	Food Master™ Oils and Dairy Hose 150SD	30	2.55	C2	C2	6	1.46	-40°F -40°C	+230°F +110°C	Food & Beverage	103
	2	150	Food Master™ Oils and Dairy Hose 150SD MegaFlex™	30	2.49	C2	C2	4	1.14	-40°F -40°C	+230°F +110°C	Food & Beverage	104
DATA CENTER	2	150	Fuel Master™ 150SD LT MegaFlex™ Hose	30	2.38	C	A	2	.94	-65°F -54°C	+180°F +82°C	Petroleum	152
	2	150	Fuel Master™ 150SD MegaFlex™ Hose	30	2.39	C	A	2	.86	-40°F -40°C	+180°F +82°C	Petroleum	151
ENGINE & MARINE	2	150	Fuel Master™ Hose 150D	—	2.44	C	A	—	.92	-40°F -40°C	+180°F +82°C	Petroleum	153
	2	150	Fuel Master™ Hose 150SD	30	2.52	C	A	5	1.08	-40°F -40°C	+180°F +82°C	Petroleum	150
FOOD & BEVERAGE	2	150	Fuel Master™ Hose 150SD	30	2.52	C	A	6	1.34	-40°F -40°C	+180°F +82°C	Petroleum	150
	2	150	Fuel Master™ XTreme™ 150SD Hose	30	2.52	C	C2	6	.59	-30°F -34°C	+180°F +82°C	Petroleum	148
MATERIAL HANDLING	2	150	Fuel Master™ XTreme™ 150SD MegaFlex™ Hose	30	2.45	C	C2	2	.97	-30°F -34°C	+180°F +82°C	Petroleum	149
	2	150	MIL Low Pressure Fuel and Oil Hose	—	2.27	A	A	20	.78	-40°F -40°C	+250°F +121°C	Engine & Marine	88
MINING	2	150	Water Master™ Plus PVC Layflat Hose (100-150) D	—	2.24	G	G	—	.36	-10°F -23°C	+150°F +66°C	Water	179
	2	150	Water Master™ Slurry Hose 150D AR	—	2.48	D	D	20	.93	-40°F -40°C	+150°F +66°C	Water	176
OILFIELD	2	200	Chem Master™ Plus CPE SD MegaFlex™	30	2.48	J	P	4	1.01	-40°F -40°C	+275°F +135°C	Chemical	73
	2	200	Chem Master™ Plus UHMWPE (150-200) SD	30	2.50	L	P	9	.99	-40°F -40°C	+212°F +100°C	Chemical	70
PETROLEUM	2	200	Chem Master™ Plus UHMWPE 200SD CR	30	2.59	L	P	9	1.02	-40°F -40°C	+212°F +100°C	Chemical	72
	2	200	Chem Master™ Plus XLPE 200SD CR	20	2.63	K	P	9	1.08	-40°F -40°C	+250°F +121°C	Chemical	69
PRESSURE WASH & WASHDOWN	2	200	Chem Master™ Plus XLPE SD - Black	30	2.54	K	P	9	1.08	-40°F -40°C	+250°F +121°C	Chemical	67
	2	200	Chem Master™ Plus XLPE SD - Colors	30	2.54	K	P	9	1.03	-40°F -40°C	+250°F +121°C	Chemical	68
STEAM	2	200	Chem Master™ XTreme™ FEP (125-200) SD	30	2.55	T	P	9	1.14	-40°F -40°C	+300°F +149°C	Chemical	65
	2	200	Chem Master™ XTreme™ FEP 200SD CR	20	2.58	T	P	9	1.14	-40°F -40°C	+300°F +149°C	Chemical	66
WATER	2	200	Plant Master™ Plus Hose (200 - 300)	4	2.56	B1	P; D3	17	1.28	-40°F -40°C	+200°F +93°C	Air & Multi-Purpose	56
	2	250	Black Gold™ ABS Chemical Plus XLPE 250SD	30	2.58	K	P	10	1.19	-40°F -40°C	+250°F +121°C	Oilfield	125
COUPLINGS & CLAMPS	2	250	Food Master™ XTreme™ Hose 250SD CR	30	2.62	S	P	6	1.17	-40°F -40°C	+230°F +110°C	Food & Beverage	100
	2	250	Plant Master™ Steam 250 Hose	10	2.66	P2	P2	25	1.57	-40°F -40°C	+450°F +232°C	Steam	175
CHEMICAL RESISTANCE TABLE	2	250	Plant Master™ Steam Plus 250 Hose	10	2.66	P2	B1	25	.16	-40°F -40°C	+450°F +232°C	Steam	174
	2	300	Black Gold™ ABS Drill Water Hose 300SD	30	2.62	P	P	12	1.19	-40°F -40°C	+150°F +66°C	Oilfield	126
PROPER HOSE SELECTION	2	300	Black Gold™ ABS Mud and Oil Hose 300SD	30	2.87	C	A	24	1.88	-40°F -40°C	+180°F +82°C	Oilfield	137
HOSE FINDER	2	300	Black Gold™ Fuel Hose 300D	10	2.66	C	A	14	1.78	-40°F -40°C	+180°F +82°C	Oilfield	140



Hose I.D. (in)	Rated W.P. (psi)	Name	Vacuum (In. Hg.)	Hose O.D. (in)	Tube Type	Cover Type	MBR (in)	Wt. (lbs/ft)	Temp Min.	Temp Max.	Hose Categories	Catalog Page No.
2	300	Black Gold™ Fuel Hose 300SD	30	2.78	C	A	10	1.60	-40°F -40°C	+180°F +82°C	Oilfield	139
2	300	Black Gold™ Potable Water Hose (150-300) D	10	2.70	D2	P	14	1.49	-40°F -40°C	+150°F +66°C	Oilfield	130
2	350	Fuel Master™ LP350 Hose	10	2.86	C; A	A	14	1.81	-40°F -40°C	+180°F +82°C	Petroleum	157
2	400	Black Gold™ Oilfield Service Hose 400SD	30	2.84	C	A; C4; L	15	2.03	-40°F -40°C	+180°F +82°C	Oilfield	141
2	500	Mine Master™ Air Drill 500	15	2.77	A	C2; D3	14	1.26	-30°F -34°C	+212°F +100°C	Mining	121
2	500	Mine Master™ Air Drill 500FR	15	2.50	C	C2	14	1.39	-22°F -30°C	+180°F +82°C	Mining	122
2	501	Plant Master™ XTreme™ 501 AR Hose	10	2.64	C	C4	14	1.35	-40°F -40°C	+212°F +100°C	Air & Multi-Purpose	49
2	600	Mine Master™ Air Drill 600HT	—	2.62	J	J	16	1.51	-40°F -40°C	+300°F +149°C	Mining	120
2	1000	Mine Master™ Spray 1000	10	2.45	P	C2	25	1.47	-40°F -40°C	+212°F +100°C	Mining	118
2	3000	Black Gold™ Slim Hole Rotary (1500-5000)	—	2.63	C	A	25	2.95	-40°F -40°C	+180°F +82°C	Oilfield	127
2	5000	Black Gold™ Slim Hole Rotary (1500-5000)	—	2.80	C	A	25	4.61	-40°F -40°C	+180°F +82°C	Oilfield	127
2 1/8	10	Air Duct Hose SD	15	2.31	A	A	3	.63	-30°F -34°C	+250°F +121°C	Air Duct	47
2 1/8	55	Marine Master™ Plus Wet Exhaust (15-100) SD	20	2.58	C	A	6	.95	-40°F -40°C	+212°F +100°C	Engine & Marine	87
2 1/8	60	4169A Coolant Hose	—	2.52	C	A	—	.88	-40°F -40°C	+212°F +100°C	Engine & Marine	91
2 1/8	62	4175EC Coolant Hose	—	2.52	P	P	—	.79	-40°F -40°C	+257°F +125°C	Engine & Marine	89
2 1/8	75	Engine Coolant Silicone	—	2.52	MQ	MQ	—	.77	-65°F -54°C	+347°F +175°C	Engine & Marine	93
2 1/4	10	Air Duct Hose SD	15	2.50	A	A	3	.67	-30°F -34°C	+250°F +121°C	Air Duct	47
2 1/4	20	4663K Fuel Fill Hose - Corrugated	30	2.50	C	A	8	.59	-40°F -40°C	+212°F +100°C	Engine & Marine	95
2 1/4	55	Marine Master™ Plus Wet Exhaust (15-100) SD	20	2.71	C	A	6	1.00	-40°F -40°C	+212°F +100°C	Engine & Marine	87
2 1/4	55	Wire Inserted Green Stripe™ Coolant Hose and Air Hose	20	2.71	P	P	6	5.62	-40°F -40°C	+257°F +125°C	Engine & Marine	92
2 1/4	60	4169A Coolant Hose	—	2.64	C	A	—	.93	-40°F -40°C	+212°F +100°C	Engine & Marine	91
2 1/4	62	4175EC Coolant Hose	—	2.64	P	P	—	.84	-40°F -40°C	+257°F +125°C	Engine & Marine	89
2 1/4	88	4176HD Coolant Hose	1	2.76	P	P	—	1.03	-40°F -40°C	+257°F +125°C	Engine & Marine	90
2 1/4	400	MIL Low Pressure Fuel and Oil Hose	—	2.52	A	A	20	1.01	-40°F -40°C	+250°F +121°C	Engine & Marine	88
2 3/8	50	Marine Master™ Plus Wet Exhaust (15-100) SD	20	2.83	C	A	7	1.06	-40°F -40°C	+212°F +100°C	Engine & Marine	87
2 3/8	50	Wire Inserted Green Stripe™ Coolant Hose and Air Hose	20	2.83	P	P	7	5.91	-40°F -40°C	+257°F +125°C	Engine & Marine	92
2 3/8	60	4169A Coolant Hose	—	2.76	C	A	—	.97	-40°F -40°C	+212°F +100°C	Engine & Marine	91
2 3/8	62	4175EC Coolant Hose	—	2.76	P	P	—	.88	-40°F -40°C	+257°F +125°C	Engine & Marine	89
2 3/8	81	4176HD Coolant Hose	—	2.88	P	P	—	1.07	-40°F -40°C	+257°F +125°C	Engine & Marine	90
2 1/2	35	Bulk Master™ PVC Hose (25-40) SD AR	28	2.98	D	G	5	.77	-30°F -34°C	+140°F +60°C	Material Handling	117
2 1/2	40	Food Master™ PVC SD Clear	28	2.98	G	G	5	.77	-10°F -23°C	+130°F +55°C	Food & Beverage	110
2 1/2	50	Ag Master™ PVC Solution Hose (35-80) SD	28	3.00	P	G	11	.91	-30°F -34°C	+140°F +60°C	Agriculture	42

TECHNICAL DATA

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CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

HOSE FINDER

TECHNICAL DATA	Hose I.D. (in)	Rated W.P. (psi)	Name	Vacuum (In. Hg.)	Hose O.D. (in)	Tube Type	Cover Type	MBR (in)	Wt. (lbs/ft)	Temp Min.	Temp Max.	Hose Categories	Catalog Page No.
AGRICULTURE													
AIR BREATHING	2 1/2	50	Marine Master™ Plus Wet Exhaust (15-100) SD	20	2.96	C	A	7	1.11	-40°F -40°C	+212°F +100°C	Engine & Marine	87
AIR DUCT	2 1/2	50	Wire Inserted Green Stripe™ Coolant Hose and Air Hose	20	2.96	P	P	7	6.15	-40°F -40°C	+257°F +125°C	Engine & Marine	92
AIR & MULTI-PURPOSE	2 1/2	60	4169A Coolant Hose	—	2.89	C	A	—	1.02	-40°F -40°C	+212°F +100°C	Engine & Marine	91
	2 1/2	60	Water Master™ PVC Layflat Hose (45-75) D	—	2.55	G	G	—	.28	+25°F -4°C	+120°F +49°C	Water	178
CHEMICAL	2 1/2	62	4175EC Coolant Hose	—	2.89	P	P	—	.92	-40°F -40°C	+257°F +125°C	Engine & Marine	89
	2 1/2	65	Ag Master™ PVC Solution Hose (30-90) SD Clear	28	2.90	G	G	8	.95	-10°F -23°C	+130°F +55°C	Agriculture	43
DATA CENTER	2 1/2	65	Engine Coolant Silicone	—	2.89	MQ	MQ	—	.96	-65°F -54°C	+347°F +175°C	Engine & Marine	93
	2 1/2	65	Food Master™ PVC SD Clear	28	2.92	G	G	8	.97	-10°F -23°C	+130°F +55°C	Food & Beverage	110
ENGINE & MARINE	2 1/2	75	4176HD Coolant Hose	—	3.01	P	P	—	1.09	-40°F -40°C	+257°F +125°C	Engine & Marine	90
	2 1/2	110	Bulk Master™ Hot Air Blower Hose (40-130) SD HT	30	3.08	P	P	14	1.43	-40°F -40°C	+350°F +177°C	Material Handling	114
FOOD & BEVERAGE	2 1/2	125	Food Master™ Dry Goods Hose (50-150) SD	30	3.23	D2	P	15	2.00	-40°F -40°C	+150°F +66°C	Food & Beverage	106
	2 1/2	150	Black Gold™ Super-Vac™ Hose (60-150) SD	30	2.99	C	D	5	1.52	-40°F -40°C	+180°F +82°C	Oilfield	134
MATERIAL HANDLING	2 1/2	150	Black Gold™ Super-Vac™ MegaFlex™ Hose (60-200) SD	30	2.96	C	D	3	1.28	-40°F -40°C	+180°F +82°C	Oilfield	135
	2 1/2	150	Chem Master™ Plus UHMWPE (150-200) SD	30	3.01	L	P	12	1.38	-40°F -40°C	+212°F +100°C	Chemical	70
MINING	2 1/2	150	Chem Master™ Plus XLPE SD - Black	30	3.05	K	P	12	1.41	-40°F -40°C	+250°F +121°C	Chemical	67
	2 1/2	150	Chem Master™ Plus XLPE SD - Colors	30	3.05	K	P	12	1.28	-40°F -40°C	+250°F +121°C	Chemical	68
OILFIELD	2 1/2	150	Chem Master™ XTreme™ FEP (125-200) SD	30	3.07	T	P	12	1.44	-40°F -40°C	+300°F +149°C	Chemical	65
PETROLEUM	2 1/2	150	Food Master™ Beverage Hose 150SD CR	30	3.11	S; S	P	22	1.59	-40°F -40°C	+212°F +100°C	Food & Beverage	102
	2 1/2	150	Food Master™ Oils and Dairy Hose 150D	—	3.06	C2	C2	30	1.66	-40°F -40°C	+230°F +110°C	Food & Beverage	105
	2 1/2	150	Food Master™ Oils and Dairy Hose 150SD	30	3.08	C2	C2	12	1.92	-40°F -40°C	+230°F +110°C	Food & Beverage	103
PRESSURE WASH & WASHDOWN	2 1/2	150	Fuel Master™ Hose 150SD	30	3.05	C	A	8	1.40	-40°F -40°C	+180°F +82°C	Petroleum	150
	2 1/2	150	Fuel Master™ XTreme™ 150SD Hose	30	3.05	C	C2	8	1.47	-30°F -34°C	+180°F +82°C	Petroleum	148
STEAM	2 1/2	150	Water Master™ Plus PVC Layflat Hose (100-150) D	—	2.79	G	G	—	—	-10°F -23°C	+150°F +66°C	Water	179
WATER	2 1/2	150	Water Master™ Slurry Hose 150D AR	—	2.99	D	D	25	1.14	-40°F -40°C	+150°F +66°C	Water	176
	2 1/2	250	Food Master™ Beverage Hose 250SD CR	30	3.25	S	P	12	1.60	-40°F -40°C	+230°F +110°C	Food & Beverage	101
COUPLINGS & CLAMPS	2 1/2	250	Food Master™ XTreme™ Hose 250SD CR	30	3.25	S	P	12	1.81	-40°F -40°C	+230°F +110°C	Food & Beverage	100
	2 1/2	400	MIL Low Pressure Fuel and Oil Hose	—	2.77	A	A	25	1.10	-40°F -40°C	+250°F +121°C	Engine & Marine	88
CHEMICAL RESISTANCE TABLE	2 1/2	500	Mine Master™ Air Drill 500	10	3.46	A	C2; D3	30	3.28	-30°F -34°C	+212°F +100°C	Mining	121
	2 1/2	500	Mine Master™ Air Drill 500FR	10	3.14	C	C2	30	2.15	-22°F -30°C	+180°F +82°C	Mining	122
PROPER HOSE SELECTION	2 1/2	600	Mine Master™ Air Drill 600HT	—	3.12	J	J	18	1.89	-40°F -40°C	+300°F +149°C	Mining	120
	2 1/2	1000	Mine Master™ Longwall Emulsion 1000	10	3.34	A	C2; C2	20	3.17	-40°F -40°C	+212°F +100°C	Mining	119
	2 1/2	2500	Black Gold™ Slim Hole Rotary (1500-5000)	—	3.38	C	A	30	3.60	-40°F -40°C	+180°F +82°C	Oilfield	127
HOSE FINDER	2 5/8	60	4169A Coolant Hose	—	3.02	C	A	—	1.07	-40°F -40°C	+212°F +100°C	Engine & Marine	91



Hose I.D. (in)	Rated W.P. (psi)	Name	Vacuum (In. Hg.)	Hose O.D. (in)	Tube Type	Cover Type	MBR (in)	Wt. (lbs/ft)	Temp Min.	Temp Max.	Hose Categories	Catalog Page No.
2 5/8	62	4175EC Coolant Hose	—	3.02	P	P	—	.96	-40°F -40°C	+257°F +125°C	Engine & Marine	89
2 5/8	69	4176HD Coolant Hose	—	3.13	P	P	—	1.16	-40°F -40°C	+257°F +125°C	Engine & Marine	90
2 3/4	60	4169A Coolant Hose	—	3.14	C	A	—	1.12	-40°F -40°C	+212°F +100°C	Engine & Marine	91
2 3/4	62	4175EC Coolant Hose	—	3.14	P	P	—	1.00	-40°F -40°C	+257°F +125°C	Engine & Marine	89
2 7/8	40	Wire Inserted Green Stripe™ Coolant Hose and Air Hose	15	3.33	P	P	9	7.01	-40°F -40°C	+257°F +125°C	Engine & Marine	92
2 7/8	55	4169A Coolant Hose	—	3.26	C	A	—	1.16	-40°F -40°C	+212°F +100°C	Engine & Marine	91
2 7/8	56	4175EC Coolant Hose	—	3.26	P	P	—	1.05	-40°F -40°C	+257°F +125°C	Engine & Marine	89
2 7/8	63	4176HD Coolant Hose	—	3.38	P	P	—	1.26	-40°F -40°C	+257°F +125°C	Engine & Marine	90
3	5	Fuel Master™ PVC Vapor Recovery	—	3.54	U	G	3	.69	-30°F -34°C	+140°F +60°C	Petroleum	155
3	12	Bulk Master™ Hose (4-20) SD	20	3.39	D3	D	10	1.03	-40°F -40°C	+150°F +66°C	Material Handling	115
3	20	4663K Fuel Fill Hose - Corrugated	30	3.27	C	A	15	.84	-40°F -40°C	+212°F +100°C	Engine & Marine	95
3	35	Ag Master™ PVC Solution Hose (30-90) SD Clear	28	3.54	G	G	6	1.04	-10°F -23°C	+130°F +55°C	Agriculture	43
3	35	Food Master™ PVC Dry Goods Hose (35-40) SD Clear	28	3.62	G	G	6	1.02	-10°F -23°C	+130°F +55°C	Food & Beverage	111
3	35	Food Master™ PVC SD Clear	28	3.54	G	G	6	1.04	-10°F -23°C	+130°F +55°C	Food & Beverage	110
3	44	Marine Master™ Plus Wet Exhaust (15-100) SD	15	3.45	C	A	12	1.32	-40°F -40°C	+212°F +100°C	Engine & Marine	87
3	50	4169A Coolant Hose	—	3.39	C	A	—	1.20	-40°F -40°C	+212°F +100°C	Engine & Marine	91
3	50	4175EC Coolant Hose	—	3.39	P	P	—	1.09	-40°F -40°C	+257°F +125°C	Engine & Marine	89
3	50	Engine Coolant Silicone	—	3.39	MQ	MQ	—	1.17	-65°F -54°C	+347°F +175°C	Engine & Marine	93
3	55	Ag Master™ PVC Solution Hose (30-90) SD Clear	28	3.44	G	G	9	1.25	-10°F -23°C	+130°F +55°C	Agriculture	43
3	60	Bulk Master™ Plus Hose (35- 150) SD	30	3.81	D3	D	24	2.66	-40°F -40°C	+150°F +66°C	Material Handling	113
3	60	Food Master™ PVC SD Clear	28	3.46	G	G	9	1.27	-10°F -23°C	+130°F +55°C	Food & Beverage	110
3	60	Water Master™ PVC Layflat Hose (45-75) D	—	3.17	G	G	—	.39	+25°F -4°C	+120°F +49°C	Water	178
3	63	4176HD Coolant Hose	—	3.51	P	P	—	1.30	-40°F -40°C	+257°F +125°C	Engine & Marine	90
3	75	Bulk Master™ Dry Cement Hose (20-75) D	—	3.47	D3	D	36	1.30	-40°F -40°C	+150°F +66°C	Material Handling	112
3	90	Ag Master™ PVC XTreme™ Hose (90-100) SD	30	3.64	P	P	7	1.25	-40°F -40°C	+140°F +66°C	Agriculture	41
3	100	Food Master™ Dry Goods Hose (50-150) SD	30	3.75	D2	P	18	2.13	-40°F -40°C	+150°F +66°C	Food & Beverage	106
3	100	Water Master™ PVC Hose (60-110) SD	28	3.70	G	G	7	1.13	-13°F -25°C	+140°F +60°C	Water	177
3	125	Water Master™ Plus PVC Layflat Hose (100-150) D	—	3.29	G	G	—	.46	-10°F -23°C	+150°F +66°C	Water	179
3	150	Ag Master™ Solution Hose 150SD	30	3.54	P	P	14	1.82	-40°F -40°C	+180°F +82°C	Agriculture	40
3	150	Black Gold™ Oilfield Vacuum Hose (100-150) SD	30	3.50	C	D	6	2.17	-40°F -40°C	+150°F +66°C	Oilfield	136
3	150	Black Gold™ Super-Vac™ Hose (60-150) SD	30	3.52	C	D	6	1.89	-40°F -40°C	+180°F +82°C	Oilfield	134
3	150	Black Gold™ Super-Vac™ MegaFlex™ Hose (60-200) SD	30	3.47	C	D	3	1.33	-40°F -40°C	+180°F +82°C	Oilfield	135
3	150	Chem Master™ EPDM SD	30	3.60	P	P	11	1.70	-40°F -40°C	+250°F +121°C	Chemical	74

TECHNICAL DATA

AGRICULTURE

AIR BREATHING

AIR DUCT

AIR & MULTI-
PURPOSE

CHEMICAL

DATA CENTER

ENGINE &
MARINEFOOD &
BEVERAGEMATERIAL
HANDLING

MINING

OILFIELD

PETROLEUM

PRESSURE
WASH &
WASHDOWN

STEAM

WATER

COUPLINGS &
CLAMPSCHEMICAL
RESISTANCE
TABLEPROPER HOSE
SELECTION

HOSE FINDER

TECHNICAL DATA	Hose I.D. (in)	Rated W.P. (psi)	Name	Vacuum (In. Hg.)	Hose O.D. (in)	Tube Type	Cover Type	MBR (in)	Wt. (lbs/ft)	Temp Min.	Temp Max.	Hose Categories	Catalog Page No.
AGRICULTURE													
AIR BREATHING	3	150	Chem Master™ Plus CPE SD MegaFlex™	30	3.48	J	P	8	1.61	-40°F -40°C	+275°F +135°C	Chemical	73
AIR DUCT	3	150	Chem Master™ Plus UHMWPE (150-200) SD	30	3.53	L	P	18	1.74	-40°F -40°C	+212°F +100°C	Chemical	70
	3	150	Chem Master™ Plus XLPE SD - Black	30	3.58	K	P	18	1.81	-40°F -40°C	+250°F +121°C	Chemical	67
AIR & MULTI-PURPOSE	3	150	Chem Master™ Plus XLPE SD - Colors	30	3.58	K	P	18	1.73	-40°F -40°C	+250°F +121°C	Chemical	68
	3	150	Chem Master™ XTreme™ FEP (125-200) SD	30	3.59	T	P	18	1.77	-40°F -40°C	+300°F +149°C	Chemical	65
CHEMICAL	3	150	Data Master™ MegaFlex™ Cooling	—	3.50	P1	P	3	1.01	-40°F -40°C	+212°F +100°C	Data Center	79
DATA CENTER	3	150	Food Master™ Beverage Hose 150SD CR	30	3.75	S; S	P	28	.50	-40°F -40°C	+212°F +100°C	Food & Beverage	102
	3	150	Food Master™ Oils and Dairy Hose 150D	—	3.56	C2	C2	36	1.90	-40°F -40°C	+230°F +110°C	Food & Beverage	105
ENGINE & MARINE	3	150	Food Master™ Oils and Dairy Hose 150SD	30	3.58	C2	C2	18	1.45	-40°F -40°C	+230°F +110°C	Food & Beverage	103
	3	150	Food Master™ Oils and Dairy Hose 150SD MegaFlex™	30	3.56	C2	C2	9	1.92	-40°F -40°C	+230°F +110°C	Food & Beverage	104
FOOD & BEVERAGE	3	150	Fuel Master™ 150SD LT MegaFlex™ Hose	30	3.44	C	A	3	1.39	-65°F -54°C	+180°F +82°C	Petroleum	152
	3	150	Fuel Master™ 150SD MegaFlex™ Hose	30	3.44	C	A	3	1.45	-40°F -40°C	+180°F +82°C	Petroleum	151
MATERIAL HANDLING	3	150	Fuel Master™ Hose 150D	—	3.45	C	A	—	1.37	-40°F -40°C	+180°F +82°C	Petroleum	153
	3	150	Fuel Master™ Hose 150SD	30	3.53	C	A	8	1.95	-40°F -40°C	+180°F +82°C	Petroleum	150
MINING	3	150	Fuel Master™ Hose 150SD	30	3.53	C	A	9	2.40	-40°F -40°C	+180°F +82°C	Petroleum	150
	3	150	Fuel Master™ XTreme™ 150SD Hose	30	3.53	C	C2	9	1.86	-30°F -34°C	+180°F +82°C	Petroleum	148
OILFIELD	3	150	Fuel Master™ XTreme™ 150SD MegaFlex™ Hose	30	3.44	C	C2	3	1.61	-30°F -34°C	+180°F +82°C	Petroleum	149
	3	150	Water Master™ Slurry Hose 150D AR	—	3.49	D	D	36	1.37	-40°F -40°C	+150°F +66°C	Water	176
PETROLEUM	3	200	Black Gold™ Potable Water Hose (150-300) D	10	3.70	D2	P	21	2.15	-40°F -40°C	+150°F +66°C	Oilfield	130
	3	250	Black Gold™ ABS Chemical Plus XLPE 250SD	30	3.71	K	P	18	2.37	-40°F -40°C	+250°F +121°C	Oilfield	125
PRESSURE WASH & WASHDOWN	3	250	Food Master™ Beverage Hose 250SD CR	30	3.86	S	P	18	2.20	-40°F -40°C	+230°F +110°C	Food & Beverage	101
	3	250	Food Master™ XTreme™ Hose 250SD CR	30	3.86	S	P	18	2.44	-40°F -40°C	+230°F +110°C	Food & Beverage	100
STEAM	3	300	Black Gold™ ABS Bulk Material Hose 300D	10	3.98	D3	D	21	2.64	-40°F -40°C	+150°F +66°C	Oilfield	132
	3	300	Black Gold™ ABS Bulk Material Hose 300SD	29	4.23	D3	D	32	3.47	-40°F -40°C	+150°F +66°C	Oilfield	131
WATER	3	300	Black Gold™ ABS Drill Water Hose 300SD	30	3.62	P	P	24	2.62	-40°F -40°C	+150°F +66°C	Oilfield	126
COUPLINGS & CLAMPS	3	300	Black Gold™ ABS Mud and Oil Hose 300D	10	3.62	C	A	21	1.94	-40°F -40°C	+180°F +82°C	Oilfield	138
	3	300	Black Gold™ ABS Mud and Oil Hose 300SD	30	3.85	C	A	32	2.83	-40°F -40°C	+180°F +82°C	Oilfield	137
CHEMICAL RESISTANCE TABLE	3	300	Black Gold™ ABS Potable Water Hose 300D	—	3.74	D2	P	—	1.82	-40°F -40°C	+150°F +66°C	Oilfield	129
	3	300	Black Gold™ Fuel Hose 300D	10	3.70	C	A	21	2.17	-40°F -40°C	+180°F +82°C	Oilfield	140
PROPER HOSE SELECTION	3	300	Black Gold™ Fuel Hose 300SD	30	3.86	C	A	18	2.59	-40°F -40°C	+180°F +82°C	Oilfield	139
	3	350	Fuel Master™ LP350 Hose	10	3.88	C; A	A	24	2.58	-40°F -40°C	+180°F +82°C	Petroleum	157
HOSE FINDER	3	400	Black Gold™ Oilfield Service Hose 400D	10	3.67	C	A; C4; L	22	1.51	-40°F -40°C	+180°F +82°C	Oilfield	142



Hose I.D. (in)	Rated W.P. (psi)	Name	Vacuum (In. Hg.)	Hose O.D. (in)	Tube Type	Cover Type	MBR (in)	Wt. (lbs/ft)	Temp Min.	Temp Max.	Hose Categories	Catalog Page No.
3	400	Black Gold™ Oilfield Service Hose 400SD	30	4.00	C	A; C4; L	20	3.66	-40°F -40°C	+180°F +82°C	Oilfield	141
3	400	Bulk Master™ Hot Air Blower Hose (40-130) SD HT	30	3.64	P	P	18	1.63	-40°F -40°C	+350°F +177°C	Material Handling	114
3	500	Mine Master™ Air Drill 500	10	3.97	A	C2; D3	36	4.10	-30°F -34°C	+212°F +100°C	Mining	121
3	500	Mine Master™ Air Drill 500FR	10	3.67	C	C2	36	2.77	-22°F -30°C	+180°F +82°C	Mining	122
3	600	Mine Master™ Air Drill 600HT	—	3.64	J	J	18	2.62	-40°F -40°C	+300°F +149°C	Mining	120
3	600	Mine Master™ Air Drill 600HT	—	3.64	J	J	20	2.46	-40°F -40°C	+300°F +149°C	Mining	120
3	1000	Mine Master™ Longwall Emulsion 1000	10	3.91	A	C2; C2	20	4.14	-40°F -40°C	+212°F +100°C	Mining	119
3	2000	Black Gold™ Slim Hole Rotary (1500-5000)	—	3.90	C	A	36	4.74	-40°F -40°C	+180°F +82°C	Oilfield	127
3 1/8	10	Air Duct Hose SD	7	3.38	A	A	10	.92	-30°F -34°C	+250°F +121°C	Air Duct	47
3 1/4	40	Engine Coolant Silicone	—	3.64	MQ	MQ	—	1.27	-65°F -54°C	+347°F +175°C	Engine & Marine	93
3 1/2	10	4169A Coolant Hose	—	3.89	C	A	—	1.40	-40°F -40°C	+212°F +100°C	Engine & Marine	91
3 1/2	18	4175EC Coolant Hose	—	3.89	P	P	—	1.18	-40°F -40°C	+257°F +125°C	Engine & Marine	89
3 1/2	35	Engine Coolant Silicone	—	3.89	MQ	MQ	—	1.36	-65°F -54°C	+347°F +175°C	Engine & Marine	93
3 1/2	35	Marine Master™ Plus Wet Exhaust (15-100) SD	15	3.95	C	A	17	1.50	-40°F -40°C	+212°F +100°C	Engine & Marine	87
3 1/2	35	Wire Inserted Green Stripe™ Coolant Hose and Air Hose	15	3.93	P	P	12	7.56	-40°F -40°C	+257°F +125°C	Engine & Marine	92
3 1/2	50	4176HD Coolant Hose	—	4.01	P	P	—	1.50	-40°F -40°C	+257°F +125°C	Engine & Marine	90
3 1/2	90	MIL Low Pressure Fuel and Oil Hose	—	3.81	A	A	42	1.82	-40°F -40°C	+250°F +121°C	Engine & Marine	88
3 3/4	35	Engine Coolant Silicone	—	4.14	MQ	MQ	—	1.44	-65°F -54°C	+347°F +175°C	Engine & Marine	93
4	5	Fuel Master™ PVC Vapor Recovery	—	4.56	U	G	4	.92	-30°F -34°C	+140°F +60°C	Petroleum	155
4	10	4169A Coolant Hose	—	4.39	C	A	—	1.69	-40°F -40°C	+212°F +100°C	Engine & Marine	91
4	12	4175EC Coolant Hose	—	4.39	P	P	—	1.34	-40°F -40°C	+257°F +125°C	Engine & Marine	89
4	16	Bulk Master™ Hose (4-20) SD	20	4.39	D3	D	15	1.35	-40°F -40°C	+150°F +66°C	Material Handling	115
4	30	Bulk Master™ PVC Hose (25-40) SD AR	28	4.65	D	G	8	1.70	-30°F -34°C	+140°F +60°C	Material Handling	117
4	30	Marine Master™ Plus Wet Exhaust (15-100) SD	10	4.46	C	A	24	1.65	-40°F -40°C	+212°F +100°C	Engine & Marine	87
4	30	Wire Inserted Green Stripe™ Coolant Hose and Air Hose	10	4.43	P	P	20	8.57	-40°F -40°C	+257°F +125°C	Engine & Marine	92
4	35	Food Master™ PVC SD Clear	28	4.65	G	G	8	1.65	-10°F -23°C	+130°F +55°C	Food & Beverage	110
4	38	4176HD Coolant Hose	—	4.51	P	P	—	1.69	-40°F -40°C	+257°F +125°C	Engine & Marine	90
4	40	Food Master™ Dry Goods Hose (25-40) D	—	4.56	D2	D3; C4	48	2.08	-40°F -40°C	+150°F +66°C	Food & Beverage	107
4	45	Bulk Master™ Plus Hose (35-150) SD	30	4.77	D3	D	32	3.37	-40°F -40°C	+150°F +66°C	Material Handling	113
4	50	Ag Master™ PVC Solution Hose (30-90) SD Clear	28	4.52	G	G	13	1.94	-10°F -23°C	+130°F +55°C	Agriculture	43
4	50	Food Master™ PVC SD Clear	28	4.56	G	G	12	2.00	-10°F -23°C	+130°F +55°C	Food & Beverage	110
4	60	Bulk Master™ Dry Cement Hose (20-75) D	—	4.61	D3	D	48	2.11	-40°F -40°C	+150°F +66°C	Material Handling	112

TECHNICAL DATA

AGRICULTURE

AIR BREATHING

AIR DUCT

AIR & MULTI-PURPOSE

CHEMICAL

DATA CENTER

ENGINE & MARINE

FOOD & BEVERAGE

MATERIAL HANDLING

MINING

OILFIELD

PETROLEUM

PRESSURE WASH & WASHDOWN

STEAM

WATER

COUPLINGS & CLAMPS

CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

HOSE FINDER

TECHNICAL DATA	Hose I.D. (in)	Rated W.P. (psi)	Name	Vacuum (In. Hg.)	Hose O.D. (in)	Tube Type	Cover Type	MBR (in)	Wt. (lbs/ft)	Temp Min.	Temp Max.	Hose Categories	Catalog Page No.
AGRICULTURE													
AIR BREATHING	4	60	Bulk Master™ Dry Cement Hose (20-75) D	—	4.73	D3	D	48	2.71	-40°F -40°C	+150°F +66°C	Material Handling	112
AIR DUCT	4	60	Water Master™ PVC Layflat Hose (45-75) D	—	4.20	G	G	—	.53	+25°F -4°C	+120°F +49°C	Water	178
	4	75	Bulk Master™ Dry Cement Hose (20-75) D	—	4.47	D3	D	48	1.69	-40°F -40°C	+150°F +66°C	Material Handling	112
AIR & MULTI-PURPOSE	4	75	Bulk Master™ Hot Air Blower Hose (40-130) SD HT	30	4.64	P	P	24	2.21	-40°F -40°C	+350°F +177°C	Material Handling	114
	4	75	Food Master™ Dry Goods Hose (50-150) SD	30	4.71	D2	P	24	3.00	-40°F -40°C	+150°F +66°C	Food & Beverage	106
CHEMICAL	4	75	Food Master™ Dry Goods Hose (50-150) SD	30	4.71	D2	P	36	4.99	-40°F -40°C	+150°F +66°C	Food & Beverage	106
	4	75	MIL Low Pressure Fuel and Oil Hose	—	4.30	A	A	48	1.78	-40°F -40°C	+250°F +121°C	Engine & Marine	88
DATA CENTER	4	75	Water Master™ PVC Hose (60-110) SD	28	4.78	G	G	8	1.74	-13°F -25°C	+140°F +60°C	Water	177
ENGINE & MARINE	4	100	Black Gold™ Oilfield Vacuum Hose (100-150) SD	30	4.52	C	D	8	2.14	-40°F -40°C	+150°F +66°C	Oilfield	136
	4	100	Black Gold™ Super-Vac™ Hose (60-150) SD	30	4.52	C	D	8	2.29	-40°F -40°C	+180°F +82°C	Oilfield	134
FOOD & BEVERAGE	4	125	Chem Master™ XTreme™ FEP (125-200) SD	30	4.66	T	P	24	2.60	-40°F -40°C	+300°F +149°C	Chemical	65
	4	150	Ag Master™ Solution Hose 150SD	30	4.54	P	P	18	2.55	-40°F -40°C	+180°F +82°C	Agriculture	40
MATERIAL HANDLING	4	150	Black Gold™ Blender Transfer Hose 150D	—	4.73	C	A	—	3.07	-40°F -40°C	+180°F +82°C	Oilfield	133
	4	150	Black Gold™ Potable Water Hose (150-300) D	10	4.70	D2	P	28	2.74	-40°F -40°C	+150°F +66°C	Oilfield	130
MINING	4	150	Bulk Master™ Plus Hose (35-150) SD	30	4.94	D3	D	32	4.00	-40°F -40°C	+150°F +66°C	Material Handling	113
	4	150	Chem Master™ Plus UHMWPE (150-200) SD	30	4.53	L	P	24	2.49	-40°F -40°C	+212°F +100°C	Chemical	70
OILFIELD	4	150	Chem Master™ Plus XLPE SD - Black	30	4.69	K	P	24	2.72	-40°F -40°C	+250°F +121°C	Chemical	67
	4	150	Chem Master™ Plus XLPE SD - Colors	30	4.69	K	P	24	2.78	-40°F -40°C	+250°F +121°C	Chemical	68
PETROLEUM	4	150	Data Master™ MegaFlex™ Cooling	—	4.50	P1	P	4	1.42	-40°F -40°C	+212°F +100°C	Data Center	79
PRESSURE WASH & WASHDOWN	4	150	Food Master™ Oils and Dairy Hose 150D	—	4.60	C2	C2	48	2.78	-40°F -40°C	+230°F +110°C	Food & Beverage	105
	4	150	Food Master™ Oils and Dairy Hose 150SD	30	4.60	C2	C2	18	3.13	-40°F -40°C	+230°F +110°C	Food & Beverage	103
	4	150	Food Master™ Oils and Dairy Hose 150SD	30	4.60	C2	C2	24	3.05	-40°F -40°C	+230°F +110°C	Food & Beverage	103
STEAM	4	150	Food Master™ Oils and Dairy Hose 150SD MegaFlex™	30	4.73	C2	C2	12	3.07	-40°F -40°C	+230°F +110°C	Food & Beverage	104
WATER	4	150	Fuel Master™ 150SD LT MegaFlex™ Hose	30	4.49	C	A	4	1.13	-65°F -54°C	+180°F +82°C	Petroleum	152
	4	150	Fuel Master™ 150SD MegaFlex™ Hose	30	4.48	C	A	4	2.29	-40°F -40°C	+180°F +82°C	Petroleum	151
COUPLINGS & CLAMPS	4	150	Fuel Master™ Hose 150D	—	4.51	C	A	—	2.03	-40°F -40°C	+180°F +82°C	Petroleum	153
	4	150	Fuel Master™ Hose 150SD	30	4.57	C	A	12	3.29	-40°F -40°C	+180°F +82°C	Petroleum	150
CHEMICAL RESISTANCE TABLE	4	150	Fuel Master™ Hose 150SD	30	4.64	C	A	11	3.14	-40°F -40°C	+180°F +82°C	Petroleum	150
	4	150	Fuel Master™ XTreme™ 150SD Hose	30	4.57	C	C2	12	2.59	-30°F -34°C	+180°F +82°C	Petroleum	148
	4	150	Fuel Master™ XTreme™ 150SD MegaFlex™ Hose	30	4.48	C	C2	4	2.16	-30°F -34°C	+180°F +82°C	Petroleum	149
PROPER HOSE SELECTION	4	150	Water Master™ Slurry Hose 150D AR	—	4.49	D	D	48	1.85	-40°F -40°C	+150°F +66°C	Water	176
	4	200	Black Gold™ Super-Vac™ MegaFlex™ Hose (60-200) SD	30	4.52	C	D	4	2.12	-40°F -40°C	+180°F +82°C	Oilfield	135
HOSE FINDER	4	250	Food Master™ Beverage Hose 250SD CR	30	4.88	S	P	36	2.75	-40°F -40°C	+230°F +110°C	Food & Beverage	101



Hose I.D. (in)	Rated W.P. (psi)	Name	Vacuum (In. Hg.)	Hose O.D. (in)	Tube Type	Cover Type	MBR (in)	Wt. (lbs/ft)	Temp Min.	Temp Max.	Hose Categories	Catalog Page No.
4	250	Food Master™ XTreme™ Hose 250SD CR	30	4.88	S	P	36	3.21	-40°F -40°C	+230°F +110°C	Food & Beverage	100
4	300	Black Gold™ ABS Drill Water Hose 300SD	30	4.62	P	P	30	3.18	-40°F -40°C	+150°F +66°C	Oilfield	126
4	300	Black Gold™ ABS Mud and Oil Hose 300SD	30	5.10	C	A	42	4.48	-40°F -40°C	+180°F +82°C	Oilfield	137
4	300	Black Gold™ ABS Potable Water Hose 300SD	29	4.96	D2	P	28	3.68	-40°F -40°C	+150°F +66°C	Oilfield	128
4	300	Black Gold™ Fuel Hose 300D	10	4.70	C	A	28	3.14	-40°F -40°C	+180°F +82°C	Oilfield	140
4	300	Black Gold™ Fuel Hose 300SD	30	4.87	C	A	24	3.52	-40°F -40°C	+180°F +82°C	Oilfield	139
4	400	Black Gold™ Oilfield Frac Hose 400D	10	4.78	C	D	30	2.81	-40°F -40°C	+180°F +82°C	Oilfield	145
4	400	Black Gold™ Oilfield Frac Hose 400SD	30	4.78	C	D	38	3.92	-40°F -40°C	+180°F +82°C	Oilfield	144
4	400	Black Gold™ Oilfield Service Hose 400D	10	4.81	C	A; C4; L	30	3.13	-40°F -40°C	+180°F +82°C	Oilfield	142
4	400	Black Gold™ Oilfield Service Hose 400D	10	4.83	C	A; C4; L	30	3.43	-40°F -40°C	+180°F +82°C	Oilfield	142
4	400	Black Gold™ Oilfield Service Hose 400D	10	4.84	C	A; C4; L	30	3.10	-40°F -40°C	+180°F +82°C	Oilfield	142
4	400	Black Gold™ Oilfield Service Hose 400SD	30	4.99	C	A; C4; L	25	4.64	-40°F -40°C	+180°F +82°C	Oilfield	141
4	400	Black Gold™ Oilfield Service Hose 400SD	30	5.14	C	A; C4; L	41	3.66	-40°F -40°C	+180°F +82°C	Oilfield	141
4	400	Black Gold™ Super-Vac™ MegaFlex™ Hose (60-200) SD	30	4.52	C	D	4	2.29	-40°F -40°C	+180°F +82°C	Oilfield	135
4	500	Mine Master™ Air Drill 500	10	5.06	A	C2; D3	48	5.32	-30°F -34°C	+212°F +100°C	Mining	121
4	600	Mine Master™ Air Drill 600HT	—	4.79	J	J	25	4.10	-40°F -40°C	+300°F +149°C	Mining	120
4	1500	Black Gold™ Slim Hole Rotary (1500-5000)	—	5.06	C	A	48	7.22	-40°F -40°C	+180°F +82°C	Oilfield	127
4 1/2	10	4169A Coolant Hose	—	4.89	C	A	—	1.90	-40°F -40°C	+212°F +100°C	Engine & Marine	91
4 1/2	10	Air Duct Hose SD	7	4.75	A	A	12	1.25	-30°F -34°C	+250°F +121°C	Air Duct	47
4 1/2	12	4175EC Coolant Hose	—	4.89	P	P	—	1.52	-40°F -40°C	+257°F +125°C	Engine & Marine	89
4 1/2	25	Marine Master™ Plus Wet Exhaust (15-100) SD	5	4.96	C	A	27	1.85	-40°F -40°C	+212°F +100°C	Engine & Marine	87
4 1/2	35	Bulk Master™ Dry Cement Hose (20-75) D	—	4.97	D3	D	54	1.92	-40°F -40°C	+150°F +66°C	Material Handling	112
4 1/2	40	Bulk Master™ Plus Hose (35-150) SD	30	5.27	D3	D	36	3.70	-40°F -40°C	+150°F +66°C	Material Handling	113
5	5	Fuel Master™ PVC Vapor Recovery	—	5.51	U	G	5	1.13	-30°F -34°C	+140°F +60°C	Petroleum	155
5	20	Bulk Master™ Hose (4-20) SD	20	5.53	D3	D	20	2.27	-40°F -40°C	+150°F +66°C	Material Handling	115
5	20	Marine Master™ Plus Wet Exhaust (15-100) SD	5	5.46	C	A	30	2.02	-40°F -40°C	+212°F +100°C	Engine & Marine	87
5	30	Food Master™ Dry Goods Hose (25-40) D	—	5.56	D2	D3; C4	60	2.46	-40°F -40°C	+150°F +66°C	Food & Beverage	107
5	40	Bulk Master™ Plus Hose (35-150) SD	30	5.77	D3	D	40	4.14	-40°F -40°C	+150°F +66°C	Material Handling	113
5	45	Ag Master™ PVC Solution Hose (30-90) SD Clear	28	5.65	G	G	21	3.09	-10°F -23°C	+130°F +55°C	Agriculture	43
5	55	Bulk Master™ Hot Air Blower Hose (40-130) SD HT	30	5.74	P	P	30	3.13	-40°F -40°C	+350°F +177°C	Material Handling	114

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CHEMICAL RESISTANCE TABLE

PROPER HOSE SELECTION

HOSE FINDER

TECHNICAL DATA	Hose I.D. (in)	Rated W.P. (psi)	Name	Vacuum (In. Hg.)	Hose O.D. (in)	Tube Type	Cover Type	MBR (in)	Wt. (lbs/ft)	Temp Min.	Temp Max.	Hose Categories	Catalog Page No.
AGRICULTURE													
AIR BREATHING	5	55	Food Master™ Dry Goods Hose (50-150) SD	30	5.75	D2	P	30	3.98	-40°F -40°C	+150°F +66°C	Food & Beverage	106
AIR DUCT	5	70	Water Master™ PVC Hose (60-110) SD	28	6.04	G	G	10	2.95	-13°F -25°C	+140°F +60°C	Water	177
AIR & MULTI-PURPOSE	5	75	Bulk Master™ Dry Cement Hose (20-75) D	—	5.47	D3	D	60	2.12	-40°F -40°C	+150°F +66°C	Material Handling	112
	5	150	Black Gold™ Blender Transfer Hose 150D	—	5.73	C	A	—	3.77	-40°F -40°C	+180°F +82°C	Oilfield	133
	5	150	Bulk Master™ Plus Hose (35-150) SD	30	5.96	D3	D	40	4.96	-40°F -40°C	+150°F +66°C	Material Handling	113
CHEMICAL	5	300	Black Gold™ ABS Bulk Material Hose 300D	10	6.14	D3	D	35	4.67	-40°F -40°C	+150°F +66°C	Oilfield	132
	5	300	Black Gold™ ABS Bulk Material Hose 300SD	29	6.33	D3	D	51	6.02	-40°F -40°C	+150°F +66°C	Oilfield	131
DATA CENTER	5	300	Black Gold™ ABS Drill Water Hose 300SD	30	5.92	P	P	48	5.05	-40°F -40°C	+150°F +66°C	Oilfield	126
ENGINE & MARINE	5	300	Black Gold™ ABS Mud and Oil Hose 300D	10	5.92	C	A	35	4.40	-40°F -40°C	+180°F +82°C	Oilfield	138
	5	300	Black Gold™ ABS Potable Water Hose 300SD	29	6.09	D2	P	36	5.05	-40°F -40°C	+150°F +66°C	Oilfield	128
FOOD & BEVERAGE	6	5	Fuel Master™ PVC Vapor Recovery	—	6.52	U	G	6	1.24	-30°F -34°C	+140°F +60°C	Petroleum	155
	6	12	4175EC Coolant Hose	—	6.42	P	P	—	2.00	-40°F -40°C	+257°F +125°C	Engine & Marine	89
MATERIAL HANDLING	6	15	Wire Inserted Green Stripe™ Coolant Hose and Air Hose	5	6.43	P	P	30	15.00	-40°F -40°C	+257°F +125°C	Engine & Marine	92
	6	20	Bulk Master™ Dry Cement Hose (20-75) D	—	6.73	D3	D	72	3.91	-40°F -40°C	+150°F +66°C	Material Handling	112
MINING	6	25	Bulk Master™ Dry Cement Hose (20-75) D	—	6.47	D3	D	72	2.51	-40°F -40°C	+150°F +66°C	Material Handling	112
	6	25	Bulk Master™ PVC Hose (25-40) SD AR	28	6.86	D	G	12	3.21	-30°F -34°C	+140°F +60°C	Material Handling	117
OILFIELD	6	25	Food Master™ Dry Goods Hose (25-40) D	—	6.56	D2	D3; C4	72	3.04	-40°F -40°C	+150°F +66°C	Food & Beverage	107
	6	35	Ag Master™ PVC Solution Hose (30-90) SD Clear	28	6.98	G	G	15	4.08	-10°F -23°C	+130°F +55°C	Agriculture	43
PETROLEUM	6	35	Ag Master™ PVC Solution Hose (35-80) SD	28	6.86	P	G	27	3.10	-30°F -34°C	+140°F +60°C	Agriculture	42
	6	40	Bulk Master™ Plus Hose (35-150) SD	30	6.76	D3	D	48	5.07	-40°F -40°C	+150°F +66°C	Material Handling	113
PRESSURE WASH & WASHDOWN	6	45	Ag Master™ PVC Solution Hose (30-90) SD Clear	28	6.80	G	G	24	4.56	-10°F -23°C	+130°F +55°C	Agriculture	43
	6	45	Water Master™ PVC Layflat Hose (45-75) D	—	6.20	G	G	—	.88	+25°F -4°C	+120°F +49°C	Water	178
STEAM	6	50	Food Master™ Dry Goods Hose (50-150) SD	30	6.91	D2	P	36	5.88	-40°F -40°C	+150°F +66°C	Food & Beverage	106
WATER	6	60	Black Gold™ Super-Vac™ Hose (60-150) SD	30	6.67	C	D	18	4.29	-40°F -40°C	+180°F +82°C	Oilfield	134
	6	60	Black Gold™ Super-Vac™ MegaFlex™ Hose (60-200) SD	30	6.59	C	D	12	3.89	-40°F -40°C	+180°F +82°C	Oilfield	135
COUPLINGS & CLAMPS	6	70	Water Master™ PVC Hose (60-110) SD	28	7.17	G	G	11	3.88	-13°F -25°C	+140°F +60°C	Water	177
	6	150	Bulk Master™ Plus Hose (35-150) SD	30	6.97	D3	D	48	6.27	-40°F -40°C	+150°F +66°C	Material Handling	113
CHEMICAL RESISTANCE TABLE	6	150	Food Master™ Oils and Dairy Hose 150D	—	6.60	C2	C2	72	4.10	-40°F -40°C	+230°F +110°C	Food & Beverage	105
	6	150	Food Master™ Oils and Dairy Hose 150SD	30	6.69	C2	C2	36	5.59	-40°F -40°C	+230°F +110°C	Food & Beverage	103
PROPER HOSE SELECTION	6	150	Fuel Master™ 150SD MegaFlex™ Hose	30	6.55	C	A	6	4.03	-40°F -40°C	+180°F +82°C	Petroleum	151
	6	150	Fuel Master™ Hose 150SD	30	6.79	C	A	17	118.20	-40°F -40°C	+180°F +82°C	Petroleum	150
	6	150	Water Master™ Slurry Hose 150D AR	—	6.51	D	D	72	2.84	-40°F -40°C	+150°F +66°C	Water	176
HOSE FINDER	6	300	Black Gold™ ABS Bulk Material Hose 300D	10	7.13	D3	D	42	5.51	-40°F -40°C	+150°F +66°C	Oilfield	132



Hose I.D. (in)	Rated W.P. (psi)	Name	Vacuum (In. Hg.)	Hose O.D. (in)	Tube Type	Cover Type	MBR (in)	Wt. (lbs/ft)	Temp Min.	Temp Max.	Hose Categories	Catalog Page No.
6	300	Black Gold™ ABS Bulk Material Hose 300SD	29	7.33	D3	D	60	6.02	-40°F -40°C	+150°F +66°C	Oilfield	131
6	300	Black Gold™ ABS Drill Water Hose 300SD	30	6.92	P	P	60	7.53	-40°F -40°C	+150°F +66°C	Oilfield	126
6	300	Black Gold™ ABS Mud and Oil Hose 300D	10	6.92	C	A	42	5.25	-40°F -40°C	+180°F +82°C	Oilfield	138
6	300	Black Gold™ ABS Mud and Oil Hose 300SD	30	7.40	C	A	60	8.59	-40°F -40°C	+180°F +82°C	Oilfield	137
6	300	Black Gold™ ABS Potable Water Hose 300SD	29	7.16	D2	P	40	6.69	-40°F -40°C	+150°F +66°C	Oilfield	128
6	300	Black Gold™ Fuel Hose 300SD	30	7.07	C	A	36	5.00	-40°F -40°C	+180°F +82°C	Oilfield	139
6 5/8	20	Bulk Master™ Dry Cement Hose (20-75) D	—	7.10	D3	D	72	2.35	-40°F -40°C	+150°F +66°C	Material Handling	112
6 5/8	35	Bulk Master™ Plus Hose (35-150) SD	30	7.47	D3	D	36	5.36	-40°F -40°C	+150°F +66°C	Material Handling	113
8	45	Water Master™ PVC Layflat Hose (45-75) D	—	8.16	G	G	—	1.27	+25°F -4°C	+120°F +49°C	Water	178
8	60	Water Master™ PVC Hose (60-110) SD	28	9.34	G	G	16	5.54	-13°F -25°C	+140°F +60°C	Water	177
8	100	Black Gold™ Oilfield Service SD Hose	30	8.74	C	D	24	305.29	-40°F -40°C	+180°F +82°C	Oilfield	143

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PROPER HOSE SELECTION

HOSE FINDER

SERVICE LIFE

All rubber products, including Industrial Hose assemblies, have a limited life on a given application. Assuming the correct hose has been selected for the application, this service life can be adversely affected by many variable conditions.

The major ones are:

- Exposure to severe external abuse such as kinking, bending, high end pull, crushing or abrasion.
- Exposure to higher-than-rated working pressures or to high surge pressures.
- Exposure to higher-than rated temperatures.
- Misapplication or exposure to corrosive liquids or gases outside the range of suitable applications.

1. EXTERNAL ABUSE Hoses should be placed where they will not be run over by equipment or subjected to high end pull. Hoses should not be bent below recommended minimum bend radius. This could result in kinking the hose or reducing its pressure resistance. Large diameter hoses also may require additional support to reduce external abuse.

2. HOSE & SYSTEM PRESSURES In establishing and determining pressures related to hose and the systems to which they are applied, it is necessary to consider separately the characteristics of the hose and the system.

- The system (or device or application) can have several pressures depending on pressure sources and surges imposed by the operator or mechanical components.
- A given hose has a fixed characteristic with respect to the pressure it can withstand (and how it is applied) and still give satisfactory life.

3. HIGH TEMPERATURES The allowable temperature ranges for industrial hoses are shown on the High Temperature Ranges page. These are for product temperatures and should not be exceeded. High temperatures can degrade rubber stocks very quickly resulting in short service life. Where external temperatures are higher than normal ambient, contact your Gates field representative for recommendations.

4. MISAPPLICATION All industrial hoses are designed for a certain specific application or related application. They should not be used for any other applications.

5. HOSE INFORMATION Refer to the following pages for details of hose construction and physical characteristics. These are shown in the data pages and include such items as rated working pressure, vacuum rating, minimum bend radius and static conductivity.

6. INTERNAL ABRASION For applications of a highly abrasive nature where the hose makes one or more bends, hose should be rotated 90° periodically to lengthen service life.

The hose manufacturer established, through design and testing, the recommended rated working pressure for the hose. It is the responsibility of the user to accurately determine the system pressure. Steady state pressure can be measured readily by gauges. Surges are difficult to measure and may require the use of electronic pressure pickup devices. Also, surge values depend on so many variables that a series of tests are usually required to obtain a valid set of readings. However, if there are extreme surges in the normal operation, or if there is the likelihood of abnormal operation of the system, the magnitude must be determined.

Considering the recommended rated working pressure of the HOSE and the various pressures of the SYSTEM, the hose is matched to the system using proper application engineering principles. End terminations may reduce the rated working pressure of hose assemblies. Refer to coupling manufacturer for recommendations or consequential damages, and some states do not allow limitations on how long an implied warranty lasts, so the above limitation and exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



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