



INDUSTRIAL HOSE

PRODUCT CATALOGUE

Gates Industrial Hose Catalogue

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Agency Specifications

* Yellow Cover Only
 ** Applies to 1/4" through 1" sizes only

Hose Type	RMA Tube	RMA Cover	SAE	UL	AS	CAN/CGA	FDA	MSHA	NFPA	USDA
Terminator®	Class A	Class A						X		
LOL Plus	Class A	Class A						X		
Premo Flex®	Class A	Class B								
Duro Flex®	Class B	Class C								
Adapta Flex™	Class C	Class C								
18MB	Class B									
500 MP	Class B							X*		
Food & Beverage Master®							3A-Class 3			X
Cellar Master® Light							3A-Class 3			X
Food Master® Lite™							3A-Class 3			X
Master-Flex® 200CL							3A			X
Tufflex® Food/Marine							X			X
Redback®	Class B	Class C	J20R2 J20R5 J2006							
4219G	Class A		30R6 30R7							
Longhorn®	Class A			No.21		8.1-M86**			58, Sec 2-4.6	
LP350										
LPG Vapour				No.569						
Gasflex® Curb Pump					2683/2000 Type 4 Grade 2, Kind 1 & 2					
232MB Steam Queen®		Class C								

INDUSTRY AGENCIES

RMA - Rubber Manufacturers Association
 SAE - Society of Automotive Engineers
 UL - Underwriters Laboratories

GOVERNMENT AGENCIES

AS - Standards Australia
 CAN/CGA - Canadian Standards Association
 FDA - U.S. Food and Drug Administration

MSHA - U.S. Mine Safety and Health Administration
 NFPA - U.S. National Fire Protection Association
 USDA - U.S. Department of Agriculture

Characteristics & Resistance Ratings of Hose Tube & Cover Compounds

(These ratings are for normal or usual range of the specified compounds. Many are also modified to meet the needs of specific applications. See notes below)

GATES TYPE	A	C	D	G	H	J	K	L	M	P	T	U	V	Z
Elastomer	Poly Chloroprene	Acrylonitrile and Butadiene	Natural Rubber or Styrene Butadiene	Polyvinyl Chloride (plasticised)	Isobutylene and Isoprene	Chlorinated Polyethylene	Cross Linked Polyethylene	Ultra High Molecular Weight Polyethylene	Chloro-sulfonated Polyethylene	Ethylene Propylene Diene	Fluorinated Polyethylene	Polyurethane	Fluoro-carbon Fluoro-elastomer	Polyamide Resins
Common name/ Trade names	Neoprene	Buna-N Nitrile	Gum Rubber; Buna-S	PVC	Butyl	CPE	Gatron™	UHMWPE	Hypalon®	EPDM	Neoflon or Teflon	Urethane	FKM Viton® Fluorel®	Nylon
ASTM	CR	NBR	NR or SBR	—	IIR	CM	XLPE	UHPE	CSM	EPDM	FEP/PTFE	EU	FKM	PA
Physical Strength	Good	Good	Excellent	Fair to Good	Fair to Good	Good	Good	Very Good	Good to Excellent	Good	Very Good	Excellent	Good	Good

RESISTANCE TO:	A	C	D	G	H	J	K	L	M	P	T	U	V	Z
Abrasion	Good to Excellent	Fair to Good	Excellent	Good to Excellent	Fair to Good	Good	Good	Excellent	Good to Excellent	Good	Excellent	Excellent	Good to Excellent	Good to Excellent
Weather and Ozone	Good to Excellent	Poor	Poor to Fair	Excellent	Excellent	Good	Excellent	Good	Excellent	Excellent	Excellent	Fair to Good	Excellent	Excellent
Gas Permeation	Good	Good to Excellent	Good	Good	Excellent	Good	Good	Excellent	Good to Excellent	Fair to Good	Excellent	Fair to Good	Good	Excellent
Petroleum Oils	Excellent	Excellent	Poor	Good to Excellent	Poor	Good	Excellent	Excellent	Good to Excellent	Poor	Excellent	Good	Excellent	Excellent
Gasolines	Fair to Good	Excellent	Poor	Fair	Poor	Good	Excellent	Excellent	Fair	Poor	Excellent	Fair	Excellent	Excellent
High Temps	Good	Good to Excellent	Fair	Poor	Excellent	Excellent	Good	Fair	Good to Excellent	Excellent	Excellent	Fair	Excellent	Good
Low Temps	Fair to Good	Fair to Good	Good	Poor	Good	Good	Fair to Good	Fair	Fair	Fair to Good	Good	Excellent	Good	Excellent

A2 White food grade Neoprene, complies with FDA (tube).

B1 B2 Proprietary for special applications. Contact Gates Hose Product Application Specialist.

C2 Modification of Nitrile with increased ozone resistance (tube and cover).

C3 Modification of Nitrile tube.

C4 Modification of Nitrile with excellent abrasion, tearing and gouging resistance (cover).

D2 White, food grade Natural Rubber, complies with FDA (tube).

D3 Natural Rubber.

P2 Special for Steam Hose Applications.

G Modified PVC

MQ Silicone Rubber

Service Life Maintenance Guide for Industrial Hose



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 fluids 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. Hose 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 in the specifications for each individual product. 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** – For information regarding hose construction and physical characteristics refer to individual product specifications. These are shown in the data pages and include such items as rated working pressure, vacuum rating, minimum bend radius & static conductivity ratings.
 6. **Internal Abrasion** – For applications of a highly abrasive nature where the hose makes one or more bends, hose should be rotated 90 degrees periodically to lengthen service life.

The hose manufacturer establishes, 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.

Gates Industrial Hoses are manufactured with a design ratio of 4:1 (burst pressure to working pressure) unless stated otherwise.

NOTE: Do not operate hoses above their stated working pressure, select a better suited hose for the application.

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.

Symbols



INSIDE DIAMETER



HOSE OUTSIDE DIAMETER



MAXIMUM WORKING PRESSURE



VACUUM



MINIMUM BEND RADIUS



WEIGHT



GATES PART NUMBER



THREAD SIZE

Seven Easy Steps for Selecting the Proper Hose



An effective way to remember hose selection criteria is to remember the word...

STAMPED

- S** = Size
- T** = Temperature
- A** = Application
- M** = Material to be conveyed
- P** = Pressure
- E** = Ends or couplings
- D** = Delivery

1. Hose Size

The inside diameter of the hose must be adequate to keep pressure loss to a minimum and avoid damage to the hose due to heat generation or excessive turbulence.

To determine there placement hose size, read the layline printing on the side of the original hose. If the original hose layline is painted over or worn off, the original hose must be cut and the inside diameter measured for size. NOTE: Before cutting an original hose assembly, measure the overall assembly length and fitting orientation. These measurements will be required to build the replacement assembly.

2. Temperature

When selecting a replacement assembly, two areas of temperature must be considered. These are fluid temperature and ambient temperature. The hose selected must be capable of withstanding the minimum and maximum temperature seen by the system. Care must be taken when routing near hot manifolds and in extreme cases a Gates HeatGuard™ or a heat shield may be advisable.

3. Application

Determine where or how the replacement hose or assembly is to be used. Most often only a duplicate of the original hose will have to be made. To fulfill the requirements of the application, additional questions may need to be answered, such as:

Where will hose be used?	Suction Application?
Fluid and/or Ambient Temperature?	Routing Requirements?
Hose Construction?	Government and Industry Standards Being Met?
Equipment Type?	Unusual Mechanical Loads?
Fluid Compatibility?	Minimum Bend Radius?
Thread End Connection Type?	Non-Conductive Hose Required?

4. Material to be Conveyed

Some applications require specialised oils or chemicals to be conveyed through the system. Hose selection must assure compatibility of the hose tube, cover, couplings and o-rings with the fluid use. Additional caution must be exercised in hose selection for gaseous applications such as refrigerants and LPG.

5. Pressure

Most important in the hose selection process is knowing system pressure, including pressure spikes. Published working pressures must be equal to or greater than the system pressure. Pressure spikes greater than the published working pressure will shorten hose life and must be taken into consideration. Gates DOES NOT recommend using hoses on applications having pressure spikes greater than published working pressures of the hose.

6. Ends or Couplings

Identify end connections using Gates coupling templates and measuring tools.

7. Delivery

Identify how many items and when they need to be supplied.

- Distributors – Call Gates Customer Service.
- End Users – Call Gates Distributors.

Acid-Chemical Hose

Stallion® (Specification 4698B)

(CHEM MASTER™ XTREME™ FEP (125-200) SD)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
3/4	19.1	1.29	32.8	200	1.38	30.0	762	4.0	102.0	0.79	30*	4698-0011
1	25.4	1.56	39.6	200	1.38	30.0	762	5.0	127.0	0.95	30*	4698-0012
1 1/2	38.1	2.05	52.1	200	1.38	30.0	762	8.0	203.0	1.38	30*	4698-0013
2	50.8	2.55	64.8	200	1.38	30.0	762	9.0	229.0	1.77	30*	4698-0014
2 1/2	63.5	3.07	78.0	150	1.03	30.0	762	12.0	305.0	2.23	30*	4698-0015
3	76.2	3.59	91.2	150	1.03	30.0	762	18.0	457.0	2.72	30*	4698-0016
4	101.6	4.66	118.4	125	0.86	30.0	762	24.0	610.0	3.88	30*	4698-0017

* Non-stock. Please contact Gates Customer Service for availability.

Recommended for:

Tank truck, barge, ship or storage tank suction & discharge transfer applications, particularly those involving highly corrosive acids and chemicals.

Stallion® is made to stand up to a wide range of acids and chemicals, including many of industry's most potent and corrosive substances: sulphuric acid, anhydrous acetic acid, oleum, phosphoric acid, propylene, nitric acid, benzene, ethylene dichloride, and xylene to name just a few. It is a rugged performer.

Stallion® has a wire helix for full suction capability. The tube stock has excellent chemical resistance and is backed by Gates Gatron™ (see page 11 for more information on Gates Gatron™) for flex fatigue safety at the coupling. Stallion® is designed for easy cleaning in a bath containing 10% (NaOH) @ 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. Refer to Gates Chemical Resistance Table (see page 6) for proper hose selection.

Stallions FEP tube is FDA approved so is suitable for some specialised food processing applications.

Compatible with commercially available Bio-Diesel fuels up to B-100.

Note: 60m lengths are available. Please contact Gates Customer Service for details.

Temperature: -40°C to +149°C normal service. Stallion® is designed to withstand fluid temperatures to +149°C; however the rating is dependent on the specific chemical conveyed. Contact Gates Customer Service for any chemical above +52°C.

Construction:

Tube: Type T (FEP) Fluoroethylenepropylene or (PTFE) Polytetrafluoroethylene for excellent chemical resistance. White. Backed Gatron™ (Modified XLPE).

Reinforcement: Synthetic, high tensile textile with steel wire helix for full suction capability and flexibility.

Cover: Type P (EPDM). Blue corrugated with red spiral stripe.

Packaging: 30m length coiled and wrapped in polyethylene.

Branding: Continuous transfer label.

Example:  Stallion® U.S. Pat. No. 5,647,400 Acid-Chemical Suction/Discharge 200 PSI (1.38MPa) WP Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards: Tube meets FDA requirements, Code of Federal Regulations 21 CFR 177.1550

Acid-Chemical Hose

Stallion® Crush Resistant (Specification 4698MB) (CHEM MASTER™ XTREME™ FEP 200 SD CR)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
3/4	19.1	1.33	33.8	200	1.38	20.0	508	4.0	102	0.79	30*	4698-0001
1	25.4	1.58	40.1	200	1.38	20.0	508	5.0	127	0.91	30	4698-0002
1 1/2	38.1	2.08	52.8	200	1.38	20.0	508	8.0	203	1.24	30*	4698-0003
2	50.8	2.58	65.5	200	1.38	20.0	508	9.0	229	1.58	30	4698-0004

* Non-stock. Please contact Gates Customer Service for availability. Minimum order quantities may apply to some sizes.

Recommended for:

Tank truck, barge, ship or storage tank suction & discharge transfer applications, particularly those involving highly corrosive acids and chemicals.

Stallion® Crush Resistant is designed to handle many of industry's most highly corrosive acids and chemicals. In addition, the monofilament helix provides superior crush and kink resistance in hose up to 2" in diameter.

The tube stock has excellent chemical resistance and is backed by Gates Gatron™ for (see page 11 for more information) flex fatigue safety at the coupling. Stallion® Crush Resistant is designed for easy cleaning in a bath containing 10% (NaOH) @ 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. Refer to Gates Chemical Resistance Table (see page 6) for proper hose selection.

Stallions FEP tube is FDA approved so is suitable for some specialised food processing applications.

Compatible with commercially available Bio-Diesel fuels up to B-100.

Temperature: -40°C to +149°C normal service. Stallion® Crush Resistant is designed to withstand fluid temperatures to +149°C, however the rating is dependent on the specific chemical conveyed. Contact Gates Customer Service for any chemical above +52°C.

Construction:

Tube: Type T (FEP) Fluoroethylenepropylene or (PTFE) Polytetrafluoroethylene for excellent chemical resistance. White. Backed with Gatron™ (Modified XLPE).

Reinforcement: Synthetic, high tensile textile with monofilament helix (and static wire) for full suction, crush and kink resistant capability.

NOTE: The hose is crush "resistant" but will not survive repeated crushings in the same area.

Cover: Type P (EPDM). Blue corrugated with red spiral stripe.

Packaging: 30m length coiled and wrapped in polyethylene.

Branding: Continuous transfer label.

Example: Stallion® U.S. Pat. No. 5,647,400 Crush Resistant Acid-Chemical Suction/Discharge 200 PSI (1.38MPa) WP Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use Permanent Fittings Only.

Standards: Tube meets FDA requirements, Code of Federal Regulations 21 CFR 177.1550

Acid-Chemical Hose

Mustang® (Specification 4695) (CHEM MASTER™ PLUS XLPE (125-200) SD)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
3/4	19.1	1.25	31.8	200	1.38	30.0	762	4.0	102	0.63	30	4695-0002
1	25.4	1.50	38.1	200	1.38	30.0	762	5.0	127	0.79	30	4695-0003
1 1/4	31.8	1.75	44.5	200	1.38	30.0	762	6.0	152	0.92	30	4695-0004
1 1/2	38.1	2.04	51.8	200	1.38	30.0	762	8.0	203	1.25	30	4695-0005
2	50.8	2.54	64.5	200	1.38	30.0	762	9.0	229	1.57	30*	4695-0001
2 1/2	63.5	3.05	77.5	150	1.03	30.0	762	12.0	305	2.01	30*	4695-0006
3	76.2	3.58	90.9	150	1.03	30.0	762	18.0	457	2.61	30*	4695-0007
4	101.6	4.69	119.1	125	0.86	30.0	762	24.0	610	3.95	30*	4695-0008

* Non-stock. Please contact Gates Customer Service for availability. Minimum order quantities may apply to some sizes.

Recommended for:

Tank truck, barge, ship or storage tank transfer of a variety of chemical products.

Mustang® 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, (see Gatron™ information below) and is designed for cleaning with "open end" 50 PSI steam or in a bath containing 10% (NaOH) @ 100°C. Cleaning in place (CIP) methods may be used. Not recommended for "closed steam" cleaning.

Applications include over 950 basic chemicals that are building blocks for numerous chemicals used in a variety of industries. Please refer to the Gates Chemical Resistance Table (see page 6) or proper hose selection.

NOTE: For applications requiring greater than 90% sulphuric acid contact Gates Customer Service.

Temperature: -40°C to +121°C normal service.

Mustang® is designed to withstand fluid temperatures to +121°C; however the rating is dependent on the specific chemical conveyed. Contact Gates Customer Service for any chemical above +52°C.

Construction:

Tube: Type K (Gatron™ Modified Cross-linked Polyethylene). Tan. High chemical resistance.

Reinforcement: Synthetic, high tensile textile with steel wire helix for full suction capability and flexibility.

Cover: Type P (EPDM). Black corrugated with orange spiral stripe.

Packaging: 30m length coiled and wrapped in polyethylene..

Branding: Continuous transfer label.

Example:  Mustang® Acid-Chemical Suction/Discharge 200 PSI (1.38MPa) WP Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use Permanent Couplings above 125°F.

GATES VALUE POINT: GATRON™

Gates uses a proprietary material called Gatron™ in many of its Acid-Chemical hose. A blend of rigid cross-linked Polyethylene (XLPE) and a number of other polymers and additives. Gatron™ offers excellent resistance to a variety of acids and chemicals, while providing much better flexibility, higher temperature capability, improved coupling seal, and better resistance to coupling "spinning" in high temperature applications or cleaning operations when compared to competitive XLPE products.

Gatron™ is the tube material used in Mustang®, Mustang® Crush Resistant and Appaloosa. It is also used as a "back-up" tube for the FEP and UHMWPE liners in the Stallion®, Stallion® Crush Resistant and Renegade. This extra Gatron™ layer provides a safety factor in the event of a liner tear in the hose, and also adds to hose performance capabilities.

Gatron™ is a major reason why Gates Acid-Chemical hose are recognised as the premier line in the industry.

Acid-Chemical Hose

Mustang® Crush Resistant (Specification 4695M) (CHEM MASTER™ PLUS XLPE 200 SD CR)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
3/4	19.1	1.36	34.5	200	1.38	20.0	508	4.0	102	0.69	30*	4695-0607
1	25.4	1.61	40.9	200	1.38	20.0	508	5.0	127	0.84	30*	4695-0608
1 1/2	38.1	2.13	54.1	200	1.38	20.0	508	8.0	203	1.18	30*	4695-0609
2	50.8	2.63	66.8	200	1.38	20.0	508	9.0	229	1.76	30*	4695-0610

* Non-stock. Please contact Gates Customer Service for availability. Minimum order quantities may apply to some sizes.

Recommended for:

Tank truck, barge, ship or storage tank transfer of a variety of chemical products.

Mustang® contains a monofilament 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, (see Gatron™ information on page 11) and is designed for cleaning with "open end" 50 PSI steam or in a bath containing 10% (NaOH) @ 100°C. Cleaning in place (CIP) methods may be used. Not recommended for "closed steam" cleaning. The monofilament helix is corrosion resistant and crush "resistant".

Applications include over 950 basic chemicals that are building blocks for numerous chemicals used in a variety of industries. Please refer to the Gates Chemical Resistance Table (see page 6) for proper hose selection.

NOTE: For applications requiring greater than 90% sulphuric acid contact Gates Customer Service.

Temperature: -40°C to +121°C normal service. Mustang® Crush Resistant is designed to withstand fluid temperatures to +121°C; however the rating is dependent on the specific chemical conveyed. Contact Gates Customer Service for any chemical above +52°C.

Construction:

Tube: Type K (Gatron™ Modified Cross-linked Polyethylene). Tan. High chemical resistance.

Reinforcement: Synthetic, high tensile textile with monofilament helix and static wire providing crush and kink resistance. NOTE: The hose is crush "resistant" but will not survive repeated crushing's in the same area.

Cover: Type P (EPDM). Black corrugated with orange spiral stripe.

Packaging: 30m length coiled and wrapped in polyethylene.

Branding: Continuous transfer label.

Example:  Mustang® Acid-Chemical Suction/Discharge 200 PSI (1.38MPa) WP Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use Permanent Couplings above 125°F.

Acid-Chemical Hose

Thermo AG® 570 Ag Spray (Specification 4465) (AG MASTER™ SPRAY 570)



Nom. I.D.		Nom. O.D.		Maxi. W.P. *		Suction #		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
3/8	9.5	0.67	17.0	570	3.93	25.0	635	4.0	102	0.16	91*	4465-1701
3/8	9.5	0.67	17.0	570	3.93	25.0	635	4.0	102	0.16	122*	4465-1702
1/2	12.7	0.81	20.6	570	3.93	25.0	635	5.0	127	0.26	91*	4465-1704
1/2	12.7	0.81	20.6	570	3.93	25.0	635	5.0	127	0.26	122*	4465-1705
3/4	19.1	1.08	27.4	570	3.93	25.0	635	6.0	152	0.39	91*	4465-1706
3/4	19.1	1.08	27.4	570	3.93	25.0	635	6.0	152	0.39	122*	4465-1707

Working pressure and suction at +22°C.

* Non-stock. Please contact Gates Customer Service for availability. Minimum order quantities may apply to some sizes.

Recommended for:

Spraying dilute solutions of water and oil based pesticides or herbicides as well as liquid fertilisers. Thermo AG® 570 is right at home in the yard, the garden, the park – anywhere you find grass, plants, and trees.

Flexible and kink resistant, it's made for spraying diluted pesticides and herbicides at working pressures up to 570 psi. It can also be used for spraying most liquid fertilisers.

NOTE: for products containing more than 2% toluene or xylene, use 77B Paint Spray & Chemical Hose (See Pg 15).

Temperature: -23°C to +55°C. Maximum temperature dependent on pesticide/herbicide or chemicals conveyed. Call Gates Customer Service for applications above +49°C.

Construction:

Tube: Type G (PVC). Yellow.

Reinforcement: Synthetic, high tensile textile cord.

Cover: Type G (PVC). Yellow. Striated.

Design Factor: 3:1

Couplings: Gates GLX™. (See Pg 30).

Packaging: All lengths coiled in a polyethylene bag.

Branding: Continuous ink brand. Example: 3/8" 570 PSI WP SPRAY HOSE JAPAN.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Acid-Chemical Hose

Thermo AG[®] 800 Ag Spray (Specification 4465) (AG MASTER[™] SPRAY 800)



Nom. I.D.		Nom. O.D.		Maxi. W.P. *		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
3/8	9.5	0.69	17.5	800	5.52	25.0	635	4.0	102	0.20	91*	4465-1361
1/2	12.7	0.84	21.3	800	5.52	25.0	635	5.0	127	0.26	91*	4465-1371
3/4	19.1	1.41	35.8	800	5.52	25.0	635	6.0	152	0.46	91*	4465-1381

* Non-stock. Please contact Gates Customer Service for availability.

Recommended for:

Spraying dilute solutions of water and oil based pesticides or herbicides as well as liquid fertilisers.

Durable, yet lightweight and flexible, Thermo AG[®] 800 is made for spraying diluted pesticides and herbicides at higher working pressures (up to 800 psi) on lawns, gardens, trees, and plants. It can also be used for spraying most liquid fertilisers.

NOTE: For products containing more than 2% toluene or xylene, use 77B Paint Spray & Chemical Hose (see page 5).

Temperature: -23°C to +55°C. Maximum temperature dependent on pesticide/herbicide or chemicals conveyed. Call Gates Customer Service for applications above +49°C.

Construction:

Tube: Type G (PVC). Green.

Reinforcement: Synthetic, high tensile textile cord.

Cover: Type G (PVC). Green, striated.

Design Factor: 3:1

Couplings: Gates GLX[™] (see page 30).

Packaging:

All lengths coiled in a polyethylene bag.

Branding:

Continuous ink brand. Example: 1/2" 800 PSI WP SPRAY HOSE JAPAN.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Acid-Chemical Hose

77B Paint Spray & Chemical (Specification 3207NN/3207T) (CHEM MASTER™ PAINT SPRAY 500/750)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1/4	6.4	0.52	13.2	500	3.45	30.0	762	3.0	76	0.13	213*	3207-0290
5/16	7.9	0.59	15.0	500	3.45	30.0	762	3.0	76	0.16	213*	3207-0291
3/8	9.5	0.67	17.0	500	3.45	30.0	762	3.0	76	0.20	213	3207-0292
1/2	12.7	0.87	22.1	750	5.17	25.0	635	5.0	127	0.33	213*	3207-0294
3/4	19.1	1.16	29.5	750	5.17	25.0	635	6.0	152	0.52	106*	3207-0296

* Non-stock. Please contact Gates Customer Service for availability. Minimum order quantities may apply to some sizes.

Recommended for:

Spray applications including paint, pesticides and herbicides; suction and discharge transfer of petroleum based products.

77B is designed for maximum flexibility and kink resistance. It will handle most paints, coatings, and solvents in spray applications from 500 to 750 psi; and it is ideal for the transfer of a variety of petroleum based products (aliphatic, aromatic, and chlorinated hydrocarbons such as toluene, xylene, benzene, gasoline, and carbon tetrachloride).

Compatible with commercially available Bio-Diesel up to B-100.

NOTE: Not recommended for acids or use in high pressure paint spray applications requiring a static conductive hose.

Temperature: -40°C to +66°C continuous service. Call Gates Customer Service for applications above +49°C.

Construction:

Tube: Type Z (Special flexible nylon material). Clear.

Reinforcement: Synthetic, high tensile textile cord.

Cover: Type A (Neoprene). Black.

Packaging:

1/4" through 1/2": Packaged in 182m to 243 Reels.

Maximum 4 pieces. One length 7m to 15m. Maximum of 2 lengths under 30m.

3/4": Packaged in 91m to 121m reels. Maximum 3 pieces.

One length between 7m to 15m.

All other lengths over 7m. Maximum 2 pieces under 30m.

Branding: Continuous ink print label.

Example: 77B PAINT SPRAY AND CHEMICAL 3/8 Inch (9.5mm) 500 PSI (3.45MPa) WP Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

GATES VALUE POINT: BETTER CHOICES

It's obvious that no single hose will work for all acid and chemical applications. That's why Gates provides you with choices to meet your specific transfer needs. Gatron™, FEP, Neoflon, UHMWPE, EPDM, PVC, and nylon tube materials offering various chemical resistance properties. EPDM, UHMWPE, PVC, and neoprene covers to handle different working conditions and external factors. A range of sizes, temperature limits and working pressure ratings that fit your transfer application requirements. If you need assistance in making the right choice, contact your Gates Distributor or Gates Product Application.

At Gates, the choice is yours.

Air & Multi-Purpose Hose

Terminator® (Specification 3202T/3202TW) (PLANT MASTER™ XTREME™ 501 AR)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1/4	6.4	0.57	14.5	501	3.45	30.0	762	3.0	76	0.16	183	3202-0001
3/8	9.5	0.75	19.1	501	3.45	25.0	635	3.0	76	0.30	183	3202-0006
1/2	12.7	0.89	22.6	501	3.45	25.0	635	5.0	127	0.36	183	3202-0011
3/4	19.1	1.22	31.0	501	3.45	15.0	381	6.0	152	0.62	183	3202-0016
1	25.4	1.51	38.4	501	3.45	10.0	254	7.9	203	0.85	107	3202-0021
1 1/4	31.8	1.78	45.2	501	3.45	10.0	254	10.0	254	1.08	107	3202-0027
1 1/2	38.1	2.09	53.1	501	3.45	10.0	254	12.0	305	1.44	30*	3202-0029
2	50.8	2.64	67.1	501	3.45	10.0	254	14.0	356	2.00	30	3202-0032

* Non-stock. Please contact Gates Customer Service for availability. Minimum order quantities may apply to some sizes.

Recommended for:

Terminator®, is one tough hose with a rugged cover for outstanding abrasion resistance and extended service life where constant flexing and bending is required.

This top-of-the-line premium oil-resistant hose is designed for applications involving air, oil, and water. As well as grease sprays, paraffin waxes, salt solutions, and a variety of chemicals. It offers excellent durability for extra long life in mining, air drill, construction, poultry plants, abattoirs, quarries, shipyards, food processing, railroads, and other severe service environments.

Excellent weather and ozone resistance, and nonconductive at 1000 volts D.C.

Temperature: -40°C to +100°C continuous service.

Construction:

Tube: Type C (Nitrile). Black. RMA (Class A) high oil resistance.

Reinforcement: Synthetic, high tensile textile cord.

Cover: Type C₄ (Carboxylated Nitrile). Yellow.

Couplings: Gates MegaCrimp®, Gates GLX™ Gates GSP (1-1/2 & 2" only) (see page 30).

Packaging: Minimum of 90% of hose reels will be 1-piece lengths. **1/4" thru 3/4":** 152m to 213m reels, maximum two pieces in 15m increments

1" and 1 1/4": 106m reels, maximum three pieces, minimum length 15m

1 1/2" and 2": Packaged 30m coiled and wrapped in polyethylene.

Branding: Continuous ink brand.

Example: TERMINATOR® 501 PSI (3.45MPa) WP 3/4 Inch (19.1mm) Flame Resistant, MSHA 2G-IC-11C Made in U.S.A.

Standards:

Tube: RMA (Class A) High oil resistance.

Cover: RMA (Class A) High oil resistance. Meets MSHA 30 CFR 18.65. Flame-resistant. All sizes except 1-1/2" and 2" are nonconductive at 1000 volts D.C. Electrical resistance is greater than one mega ohm per inch when subjected to 1000 volts D.C. Storage and use may adversely affect electrical properties.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

GATES VALUE POINT: CARBOXYLATED NITRILE

This specially compounded elastomer offers the same oil resistance as more commonly used Modified Nitrile covers, but does it while offering substantially improved abrasion capability. In tests, this cover material has demonstrated up to 10 times the durability of other hose products including those with Modified Nitrile or EPDM covers. Terminator®, is made with this material, and you'll find it to be an extremely versatile, long lasting product.

GATES VALUE POINT: MULTI-PURPOSE CAPABILITY

While many hoses carry the moniker "General Purpose" or "Multi-Purpose", few really offer the versatility of products such as Terminator®. This hose is constructed to handle high working pressures and severe working conditions, as well as having the capability to truly "multi-task" – gasoline, petroleum oils, kerosene, fuel oil, air, and water are just a few of the materials which can be conveyed by this product.

If you want one hose that "does it all," take a look at this product.

Air & Multi-Purpose Hose

PREMO FLEX® (Specification 3205R) (PLANT MASTER™ XTREME™ 250/315)



250psi Working Pressure

Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1/4	6.4	0.50	12.7	250	1.72	30.0	762	2.0	51	0.16	183	3205-0015
5/16	7.9	0.56	14.2	250	1.72	30.0	762	2.0	51	0.15	183	3205-0020
3/8	9.5	0.66	16.8	250	1.72	30.0	762	3.0	76	0.25	183	3205-0025
1/2	12.7	0.85	21.6	250	1.72	25.0	635	4.0	102	0.36	183	3205-0030
3/4	19.1	1.15	29.2	250	1.72	20.0	508	5.0	127	0.60	183	3205-0040
1	25.4	1.47	37.3	250	1.72	10.0	254	7.9	203	0.86	107	3205-0046
1 1/4	31.8	1.75	44.5	250	1.72	10.0	254	10.0	254	1.07	91	3205-0049
1 1/2	38.1	2.00	50.8	250	1.72	10.0	254	12.0	305	1.27	76	3205-0055

315psi Working Pressure

3/16	4.8	0.43	10.9	500	3.45	30.0	762	3.0	76	0.10	191	3219-2901
1/4	6.4	0.57	14.5	315	2.17	30.0	762	2.0	51	0.18	183*	3205-0016
3/8	9.5	0.73	18.5	315	2.17	30.0	762	3.0	76	0.27	183*	3205-0026
1/2	12.7	0.88	22.4	315	2.17	25.0	635	4.0	102	0.42	183*	3205-0031
5/8	15.9	0.98	24.9	315	2.17	20.0	508	5.0	127	0.39	183	3205-0036
3/4	19.1	1.19	30.2	315	2.17	20.0	508	5.0	127	0.58	183	3205-0041

* Non-stock. Please contact Gates Customer Service for availability.

Recommended for:

Premo Flex® is the perfect choice for multiple applications requiring a highly flexible, cost-effective hose with maximum resistance to petroleum oils, kerosene, and fuel oil (to 49°C), and lubricating oils (to 100°C).

Premo Flex® can be used for transferring petrol or diesel fuels. It is also suitable for air and water applications, offers excellent weather and ozone resistance, and is non-conductive at 1000 volts D.C.

Temperature: -40°C to +100°C continuous service.

Construction:

Tube: Type C (Nitrile). Black.

Reinforcement: Synthetic, high tensile textile cord.

Cover: Type C₂ (Modified Nitrile). Red.

Couplings: Gates GLX™ (see page 30).

Packaging: All on reels, maximum two pieces in 15m increments.

Minimum of 90% of hose reels will be 1-piece lengths.

3/16" thru 3/4": 152m to 213m reels

1": 91m to 121m reels

1 1/4": 91m reels

1 1/2": 76m reels

Branding: Continuous ink brand.

Example: Premo Flex® Multi-Purpose 3/8 Inch(9.5mm) 250 PSI (1.72MPa) WP NONCONDUCTIVE @1000V D.C.— (1 MEGOHM/IN.) Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Tube: RMA (Class A) High oil resistance.

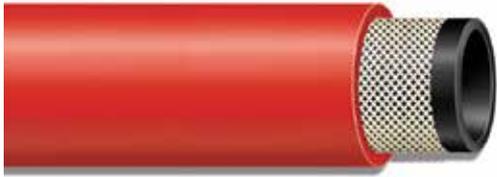
Cover: RMA (Class B) Medium oil resistance.

Mil-H-2815G Section 3.12.2 off-gassing for breathing applications such as supplied air respirators, 3/16" through 3/8", 3/4" and 1" I.D.'s.

Nonconductive at 1000 volts D.C. Meets electrical resistance of one mega ohm per inch when subjected to 1000 volts D.C. Storage and use may adversely affect electrical properties.

Air & Multi-Purpose Hose

Adapta Flex™ (RED) (Specification 3204EB/3204SB) (PLANT MASTER™ 200/250/300)



Red Cover

200psi Working Pressure

Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1/4	6.4	0.50	12.7	200	1.38	30.0	762	3.0	76	0.12	183	3204-1301
5/16	7.9	0.53	13.5	200	1.38	30.0	762	3.0	76	0.15	183	3204-1316
3/8	9.5	0.66	16.8	200	1.38	30.0	762	3.0	76	0.22	183*	3204-1319
1/2	12.7	0.81	20.6	200	1.38	25.0	635	5.0	127	0.31	183	3204-1328
5/8	15.9	0.97	24.6	200	1.38	20.0	508	6.0	152	0.37	183	3204-1337
3/4	19.1	1.11	28.2	200	1.38	15.0	381	6.0	152	0.46	183	3204-1346
1	25.4	1.40	35.6	200	1.38	10.0	254	7.9	203	0.73	107*	3204-1361

250psi Working Pressure

1/4	6.4	0.50	12.7	250	1.72	30.0	762	3.0	76	0.12	183*	3204-1304
3/8	9.5	0.66	16.8	250	1.72	30.0	762	3.0	76	0.22	183*	3204-1322
1/2	12.7	0.81	20.6	250	1.72	25.0	635	5.0	127	0.31	183*	3204-1331
3/4	19.1	1.15	29.2	250	1.72	20.0	508	6.0	152	0.55	183*	3204-1349

300psi Working Pressure

1/4	6.4	0.53	13.5	300	2.07	30.0	762	3.0	76	0.13	183*	3204-1307
3/8	9.5	0.69	17.5	300	2.07	30.0	762	3.0	76	0.24	183*	3204-1325
1/2	12.7	0.83	21.1	300	2.07	25.0	635	5.0	127	0.34	183*	3204-1334
3/4	19.1	1.15	29.2	300	2.07	15.0	381	6.0	152	0.55	183*	3204-1355
1	25.4	1.47	37.3	300	2.07	10.0	254	7.9	203	0.89	152*	3204-1364

* Non-stock. Please contact Gates Customer Service for availability. Minimum order quantities may apply to some sizes.

NOTE: Additional hose specifications on following page.

Air & Multi-Purpose Hose

Adapta Flex™ (BLACK) (Specification 3204EB/3204SB) (PLANT MASTER™ 200/250)



Black Cover

200psi Working Pressure

Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1/4	6.4	0.50	12.7	200	1.38	30.0	762	3.0	76	0.12	183	3204-1401
3/8	9.5	0.66	16.8	200	1.72	30.0	762	3.0	76	0.22	183	3204-1407
1/2	12.7	0.81	20.6	200	1.38	25.0	635	5.0	127	0.33	183	3204-1413
5/8	15.9	0.97	24.6	200	1.38	20.0	508	6.0	152	0.37	183	3204-1419
3/4	19.1	1.11	28.2	200	1.38	15.0	381	6.0	152	0.46	183	3204-1422
1	25.4	1.40	35.6	200	1.38	10.0	254	7.9	203	0.72	107	3204-1431

250psi Working Pressure

3/8	9.5	0.66	16.8	250	1.72	30.0	762	3.0	76	0.22	183*	3204-1410
1/2	12.7	0.81	20.6	250	1.72	25.0	635	5.0	127	0.34	183*	3204-1416
3/4	19.1	1.15	29.2	250	1.72	20.0	508	6.0	152	0.54	183*	3204-1425
1 1/4	31.8	1.73	43.9	250	1.72	10.0	254	10.0	254	1.09	91	3204-1434
1 1/2	38.1	1.98	50.3	250	1.72	10.0	254	12.0	305	1.27	76	3204-1437

* Non-stock. Please contact Gates Customer Service for availability. Minimum order quantities may apply to some sizes.

Recommended for:

Adapta Flex™ is the preferred hose choice for air and water applications requiring maximum flexibility.

Red and black cover hose are available in multiple size and pressure combinations while blue, green, and yellow cover versions come in the most popular sizes.

Adapta Flex™ offers outstanding resistance to heat and ozone. It is also excellent for use with dilute solutions of agricultural chemicals such as Lasso* and Roundup*.

Black and Red cover is a stock item; please contact Gates Customer Service to enquire about other colours available.



Temperature: -40°C to +93°C continuous service.

Construction:

Tube: Type P (EPDM). Black.

Reinforcement: Synthetic, high tensile textile cord.

Cover: Type P (EPDM). Red, black, blue, green, and yellow. All sizes thru 1/2" are perforated.

Couplings: Gates GLX™ (see page 30).

Packaging: Minimum of 90% of hose reels will be 1-piece lengths.

1/4" through 3/4": Packaged in 152m to 213m reels. Maximum 2 pieces in 15m increments.

1": Packaged in 91m to 121m reels. Maximum 2 pieces in 15m increments.

1 1/4": Packaged in 91m reels. Maximum 2 pieces in 15m increments.

1 1/2": Packaged in 76m reels. Maximum 2 pieces in 15m increments.

Branding: Continuous ink brand.

Example:  Adapta Flex™ Multi-Purpose 3/8 Inch (9.5mm) 250 PSI (1.72MPa) WP Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Tube: RMA (Class C) Limited oil resistance.

Cover: RMA (Class C) Limited oil resistance.

*Lasso and Roundup are registered trademarks of Dow Chemical.

Air & Multi-Purpose Hose
Duro Flex® (Specification 3200R)
(PLANT MASTER™ PLUS 250-300)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1/4	6.4	0.50	12.7	250	1.72	30.0	762	2.0	51	0.15	152	3200-0002
3/8	9.5	0.66	16.8	250	1.72	30.0	762	3.0	76	0.21	152	3200-0006
1/2	12.7	0.81	20.6	250	1.72	25.0	635	4.0	102	0.28	182	3200-0008
5/8	15.9	0.98	24.9	300	2.07	20.0	508	5.0	127	0.42	182	3200-0011
3/4	19.1	1.15	29.2	250	1.72	20.0	508	5.0	127	0.51	182	3200-0012
1	25.4	1.47	37.3	250	1.72	10.0	254	7.9	203	0.88	121	3200-0014
1 1/4	31.8	1.73	43.9	250	1.72	10.0	254	10.0	254	1.10	91	3200-0015
1 1/2	38.1	1.98	50.3	250	1.72	10.0	254	12.0	305	1.28	76	3200-0016

Recommended for:

Cost effective Duro Flex® features a specially compounded tube that make it ideal for applications requiring maximum flexibility combined with medium resistance to air, water, heat, and high viscosity oils.

For SAE oils intermittent contact only.

Temperature: -40°C to +93°C continuous service.

Construction:

Tube: Type B₁ (Specially compounded elastomer). Black.

Reinforcement: Synthetic, high tensile textile cord.

Cover: Type P (EPDM). Red. All sizes thru 1/2" have a perforated cover.

Couplings: Gates GLX™ (see page 30).

Packaging: Minimum of 90% of hose reels will be 1-piece lengths.

1/4" through 3/4": Packaged in 152m to 213m reels. Maximum 2 pieces in 15m increments.

1": Packaged in 91m to 121m reels. Maximum 2 pieces in 15m increments.

1 1/4": Packaged in 91m reels. Maximum 2 pieces in 15m increments.

1 1/2": Packaged in 76m reels. Maximum 2 pieces in 15m increments.

Branding: Continuous ink brand.

Example: Duro Flex® Multi-Purpose 3/8 Inch (9.5mm) 250 PSI (1.72MPa) WP Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Tube: RMA (Class B) Medium oil resistance.

Air & Multi-Purpose Hose

Lock-On-Hose LOL Plus (Specification 3284D, E, G, H R, Y) (PLANT MASTER™ XTREME™ 300 LOCK-ON BRAID)



Black Cover - FRAS & MSHA Approved

Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius	Kg. Per	Standard Pack	Part No.	
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
3/16	5.1	0.41	10.4	300	2.07	27.9	711	3.0	76	0.10	300	3284-5159
1/4	6.4	0.47	11.9	300	2.07	27.9	711	3.0	76	0.12	145	3284-5160
5/16	7.9	0.55	14.0	300	2.07	27.9	711	3.0	76	0.15	300	3284-5161
3/8	9.5	0.63	15.9	300	2.07	27.9	711	3.0	76	0.19	91	3284-5162
1/2	12.7	0.77	19.6	300	2.07	27.9	711	5.0	127	0.25	91	3284-5163
5/8	15.9	0.94	23.9	300	2.07	27.9	711	6.0	152	0.30	76	3284-5164
3/4	19.1	1.06	26.9	300	2.07	15.0	381	7.0	178	0.40	68	3284-5165

Blue Cover

3/16	5.1	0.41	10.4	300	2.07	27.9	711	3.0	76	0.10	91*	3284-2510
1/4	6.4	0.47	11.9	300	2.07	27.9	711	3.0	76	0.12	145	3284-2511
3/8	9.5	0.63	15.9	300	2.07	27.9	711	3.0	76	0.19	91	3284-2513
1/2	12.7	0.77	19.6	300	2.07	27.9	711	5.0	127	0.25	91	3284-2515
5/8	15.9	0.94	23.9	300	2.07	27.9	711	6.0	152	0.30	76	3284-2517
3/4	19.1	1.06	26.9	300	2.07	15.0	381	7.0	178	0.40	68	3284-2519

Recommended for:

When matched with push-lock style couplings, LOL Plus hose is an outstanding performer for a wide range of low pressure transfer applications including petroleum-base hydraulic oils, water, glycol antifreeze solutions, hot lubricating oils and air.

NOTE: Lock-on 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 petrol or diesel fuel applications.**

Black & Blue covers are stock items. Grey, Green, Red and Yellow stocked in 3/8". Please contact Gates Customer Service to enquire about other colours.



Temperature: -40°C to +100°C normal service. For temperatures exceeding 70°C use hose clamps.

GATES VALUE POINT: LOCK-ON HOSE

Gates LOL Plus is designed to accommodate lock-on fittings. When pressurised, the lock-on hose firmly grips the push-on fitting to establish a tight, permanent, positive seal. Lock-on hose eliminates the need for ferrules or clamps in the fabrication of hose assemblies and facilitates fast, effective assembly, installation, and/or repair in the field.

Construction:

Tube: Type C (Nitrile). Black. RMA (Class A) high oil resistance.

Reinforcement: Braided, high tensile synthetic textile cord.

Cover: Type C₂ (Modified Nitrile). Blue, Red, Yellow, Green, or Gray. Type A (Neoprene) Black.

Couplings: Gates GLX™, Gates Lock-on Couplings (Note: Do not use clamps with Lock-On fittings or clamp over beaded nipple) (see pages 22-30).

Packaging: Maximum of three pieces per reel, minimum length 15m.

1/4" thru 1/2": 91m reels

5/8": 76m reels

3/4": 68m reels

Branding: Continuous ink brand.

Example: LOL 4LOLA 1/4 INCH 300 PSI WP MADE IN INDIA Flame Resistant Anti-Static FRAS

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Tube: RMA (Class A) High oil resistance.

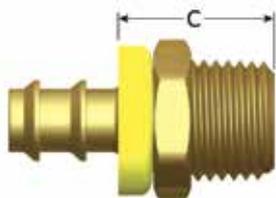
Cover: RMA (Class A) High oil resistance. Flame-resistant.

Lock-On Couplings for LOL Plus Hose - BRASS



Gates Lock-On fittings are specifically designed for use with our LOL Plus and other Lock-On style hoses. When pressurised, the Lock-On hose firmly grips the push-on fitting to establish a tight, permanent, positive seal. Lock-On hose eliminates the need for ferrules or clamps in the fabrication of hose assemblies and facilitates fast, effective assembly, installation, and/or repair in the field.

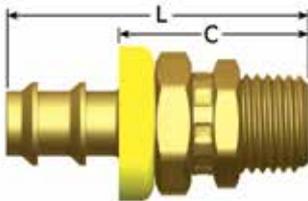
Male Pipe (NPTF – 30° Cone Seat)



Coupling Description	Gates Part Number	Nom I.D.		Thread	C	
		(In.)	(mm)		(In.)	(mm)
4LOC-2RMP	7207-06545	1/4	6.4	1/8-27	0.56	14.2
4LOC-4RMP	7207-06555	1/4	6.4	1/4-18	0.81	20.6
4LOC-6RMP	7207-10005	1/4	6.4	3/8-18	0.88	22.4
5LOC-2RMP	7207-86515	5/16	7.9	1/8-27	0.81	20.6
5LOC-4RMP	7207-86516	5/16	7.9	1/4-18	0.77	19.6
6LOC-2RMP	7207-10015	3/8	9.5	1/8-27	0.56	14.2
6LOC-4RMP	7207-06565	3/8	9.5	1/4-18	0.81	20.6
6LOC-6RMP	7207-06575	3/8	9.5	3/8-18	0.88	22.4
6LOC-8RMP	7207-10025	3/8	9.5	1/2-14	0.88	22.4
8LOC-4RMP	7207-10035	1/2	12.7	1/4-18	0.81	20.6
8LOC-6RMP	7207-06585	1/2	12.7	3/8-18	0.88	22.4
8LOC-8RMP	7207-06595	1/2	12.7	1/2-14	0.88	22.4
8LOC-12RMP	7207-10045	1/2	12.7	3/4-14	1.13	28.7
10LOC-6RMP	7207-10055	5/8	15.8	3/8-18	0.88	22.4
10LOC-8RMP	7207-86507	5/8	15.8	1/2-14	1.06	26.9
10LOC-12RMP	7207-10065	5/8	15.8	3/4-14	1.13	28.7
12LOC-8RMP	7207-10075	3/4	19.1	1/2-14	0.88	22.4
12LOC-12RMP	7207-06625	3/4	19.1	3/4-14	1.13	28.7

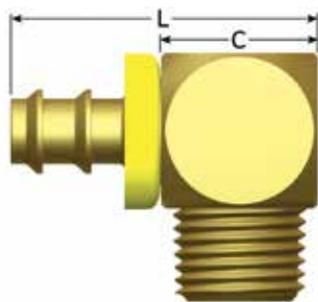


Male Pipe Swivel (NPTF – Without 30° Cone Seat)



Coupling Description	Part Number	Hose I.D.		Thread	C	
		(In.)	(mm)		(In.)	(mm)
4LOC-4RMPX	7207-10085	1/4	6.3	1/4-18	1.81	46.0
6LOC-6RMPX	7207-10095	3/8	9.5	3/8-18	2.00	50.8
8LOC-8RMPX	7207-10105	1/2	12.7	1/2-14	2.38	60.5
12LOC-12RMPX	7207-10115	3/4	19.1	3/4-14	2.68	68.1

Male Pipe – 90° Block (NPTF – Without 30° Cone Seat)

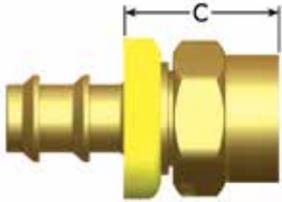


Coupling Description	Part Number	Hose I.D.		Thread	C	
		(In.)	(mm)		(In.)	(mm)
4LOC-2RMP90	7207-10125	1/4	6.3	1/8-27	0.31	7.9
4LOC-4RMP90	7207-10135	1/4	6.3	1/4-18	0.38	9.7
6LOC-2RMP90	7207-10145	3/8	9.5	1/8-27	0.38	9.7
6LOC-6RMP90	7207-10155	3/8	9.5	3/8-18	0.43	10.9
8LOC-8RMP90	7207-10165	1/2	12.7	1/2-14	0.50	12.7
12LOC-12RMP90	7207-10175	3/4	19.1	3/4-14	0.76	19.3

Lock-On Couplings for LOL Plus Hose - BRASS

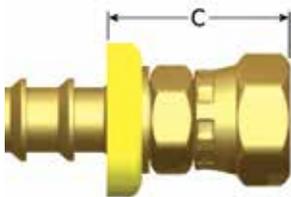


Female Pipe (NPTF – Without 30° Cone Seat)



Coupling Description	Gates Part Number	Hose I.D.		Spring	C	
		(In.)	(mm)		(In.)	(mm)
4LOC-4RFP	7207-10185	1/4	6.3	1/4-18	0.50	12.7
5LOC-4RFP	7207-10195	5/16	7.9	1/4-18	0.50	12.7
6LOC-6RFP	7207-10205	3/8	9.5	3/8-18	0.63	16.0
8LOC-6RFP	7207-10215	1/2	12.7	3/8-18	0.63	16.0
8LOC-8RFP	7207-10225	1/2	12.7	1/2-14	0.75	19.1
10LOC-8RFP	7207-10235	5/8	15.8	1/2-14	0.75	19.1
12LOC-12RFP	7207-10245	3/4	19.1	3/4-14	0.93	23.6

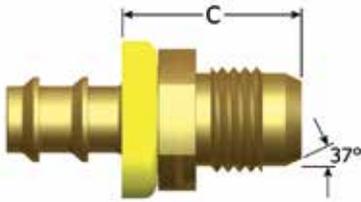
Female Pipe Swivel (NPTF – 30° Cone Seat)



Coupling Description	Gates Part Number	Hose I.D.		Spring	C	
		(In.)	(mm)		(In.)	(mm)
4LOC-2RFPX	7207-10255	1/4	6.3	1/8-27	1.81	46.0
4LOC-4RFPX	7207-10265	1/4	6.3	1/4-18	1.81	46.0
4LOC-6RFPX	7207-10275	1/4	6.3	3/8-18	2.00	50.8
6LOC-4RFPX	7207-10285	3/8	9.5	1/4-18	1.81	46.0
6LOC-6RFPX	7207-10295	3/8	9.5	3/8-18	2.00	50.8
6LOC-8RFPX	7207-10305	3/8	9.5	1/2-14	2.38	60.5
8LOC-8RFPX	7207-10315	1/2	12.7	1/2-14	2.38	60.5
8LOC-12RFPX	7207-10325	1/2	12.7	3/4-14	2.68	68.1
10LOC-12RFPX	7207-10335	5/8	15.8	3/4-14	2.68	68.1
12LOC-12RFPX	7207-10345	3/4	19.1	3/4-14	2.68	68.1

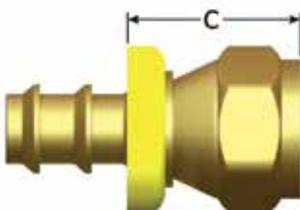


Male JIC 37° Flare



Coupling Description	Gates Part Number	Hose I.D.		Threads	C	
		(In.)	(mm)		(In.)	(mm)
4LOC-4RMJ	7207-10355	1/4	6.3	7/19-20	0.81	20.6
4LOC-5RMJ	7207-10365	1/4	6.3	1/2-20	0.94	23.9
4LOC-6RMJ	7207-10375	1/4	6.3	9/16-18	1.00	25.4
6LOC-4RMJ	7207-10385	3/8	9.5	7/19-20	0.88	22.4
6LOC-5RMJ	7207-10395	3/8	9.5	1/2-20	0.94	23.9
6LOC-6RMJ	7207-10405	3/8	9.5	9/16-18	1.00	25.4
6LOC-8RMJ	7207-10415	3/8	9.5	3/4-16	1.19	30.2
8LOC-8RMJ	7207-10425	1/2	12.7	3/4-16	1.19	30.2
8LOC-10RMJ	7207-10435	1/2	12.7	7/8-14	1.27	32.3
10LOC-8RMJ	7207-10445	5/8	15.8	3/4-16	1.19	30.2
10LOC-10RMJ	7207-10455	5/8	15.8	7/8-14	1.27	32.3
12LOC-10RMJ	7207-10465	3/4	19.1	7/8-14	1.27	32.3
12LOC-12RMJ	7207-10475	3/4	19.1	1 1/16-12	1.33	33.8

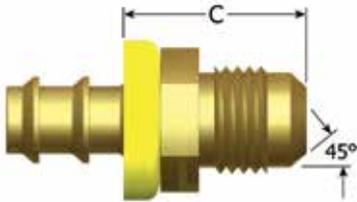
Female JIC 37° Flare Swivel



Coupling Description	Gates Part Number	Hose I.D.		Threads	C	
		(In.)	(mm)		(In.)	(mm)
4LOC-6RFJX	7207-10485	1/4	6.3	9/16-18	0.74	18.8
6LOC-6RFJX	7207-06705	3/8	9.5	9/16-18	0.81	20.6
6LOC-8RFJX	7207-06785	3/8	9.5	3/4-16	0.78	19.8
12LOC-12RFJX	7207-86536	3/4	19.1	1 1/16-12	1.09	27.7

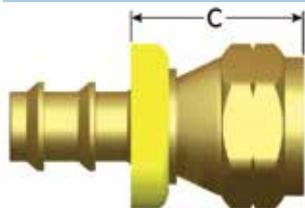


Male SAE 45° Flare



Coupling Description	Gates Part Number	Hose I.D.			C	
		(In.)	(mm)		(In.)	(mm)
4-LOC-4RMS	7207-86511	1/4	6.4	7/16-20	0.69	17.5
4-LOC-5RMS	7207-86512	1/4	6.4	1/2-20	0.81	20.6
4-LOC-6RMS	7207-10495	1/4	6.3	5/8-18	0.88	22.4
6-LOC-4RMS	7207-10505	3/8	9.5	7/16-20	0.69	17.5
6-LOC-5RMS	7207-10515	3/8	9.5	1/2-20	0.81	20.6
6-LOC-6RMS	7207-86513	3/8	9.5	5/8-18	0.88	22.4
6-LOC-8RMS	7207-10525	3/8	9.5	3/4-16	1.13	28.7
8-LOC-8RMS	7207-86514	1/2	12.7	3/4-16	1.13	28.7
8-LOC-10RMS	7207-10535	1/2	12.7	7/8-14	1.27	32.3
10LOC-8RMS	7207-10545	5/8	15.8	3/4-16	1.13	28.7
10LOC-10RMS	7207-10555	5/8	15.8	7/8-14	1.27	32.3
12LOC-10RMS	7207-10565	3/4	19.1	7/8-14	1.27	32.3
12LOC-12RMS	7207-10575	3/4	19.1	1 1/16-14	1.33	33.8

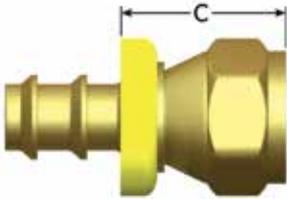
Female SAE 45° Flare Swivel



Coupling Description	Gates Part Number	Hose I.D.			C	
		(In.)	(mm)		(In.)	(mm)
4LOC-6RFSX	7207-10585	1/4	6.3	5/8-18	0.69	17.5
5LOC-6RFSX	7207-86528	5/16	7.9	5/8-18	0.81	20.6
6LOC-6RFSX	7207-06665	3/8	9.5	5/8-18	0.84	21.3
8LOC-6RFSX	7207-10595	1/2	12.7	5/8-18	0.84	21.3
12LOC-12RFSX	7207-86526	3/4	19.1	1 1/16-14	1.09	27.7

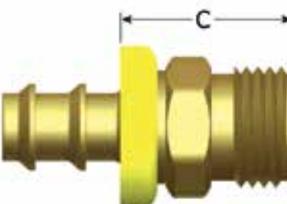


Dual Seat Female JIC 37°/SAE 45° Flare Swivel



Coupling Description	Gates Part Number	Hose I.D.		Spring	C	
		(In.)	(mm)		(In.)	(mm)
4LOC-4RFJSX	7207-06635	1/4	6.3	7/16-20	0.75	19.1
4LOC-5RFJSX	7207-06655	1/4	6.3	1/2-20	0.78	19.8
5LOC-5RFJSX	7207-86527	5/16	7.9	1/2-20	0.81	20.6
6LOC-5RFJSX	7207-10605	3/8	9.5	1/2-20	0.81	20.6
8LOC-8RFJSX	7207-06725	1/2	12.7	3/4-16	0.97	24.6
8LOC-10RFJSX	7207-07385	1/2	12.7	7/8-14	1.00	25.4
10LOC-10RFJSX	7207-86535	5/8	15.8	7/8-14	1.00	25.4
12LOC-10RFJSX	7207-10615	3/4	19.1	7/8-14	1.00	25.4

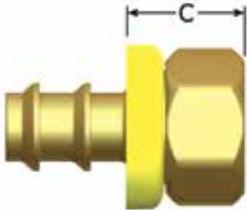
Male SAE Inverted Swivel



Coupling Description	Gates Part Number	Hose I.D.		Spring	C	
		(In.)	(mm)		(In.)	(mm)
4LOC-3RMIX	7207-86541	1/4	6.4	3/8-24	0.78	19.8
4LOC-4RMIX	7207-06735	1/4	6.4	7/16-24	0.78	19.8
4LOC-5RMIX	7207-06745	1/4	6.4	1/2-20	0.78	19.8
5LOC-5RMIX	7207-86548	5/16	7.9	1/2-20	0.82	20.8
5LOC-6RMIX	7207-86549	5/16	7.9	5/8-18	0.86	21.8
6LOC-5RMIX	7207-10625	3/8	9.5	1/2-20	0.82	20.8
6LOC-6RMIX	7207-06765	3/8	9.5	5/8-18	0.97	24.6
6LOC-8RMIX	7207-10635	3/8	9.5	3/4-18	1.00	25.4
8LOC-6RMIX	7207-10645	1/2	12.7	5/8-18	0.97	24.6
8LOC-8RMIX	7207-86545	1/2	12.7	3/4-18	1.00	25.4
10LOC-10RMIX	7207-86546	5/8	15.8	7/8-18	1.00	25.4

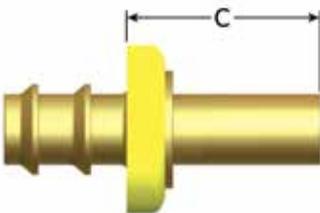


Female SAE Inverted Solid



Coupling Description	Gates Part Number	Hose I.D.			C	
		(In.)	(mm)		(In.)	(mm)
4LOC-3RFI	7207-86551	1/4	6.4	3/8-24	0.75	19.1
4LOC-4RFI	7207-86552	1/4	6.4	7/16-24	0.75	19.1
4LOC-5RFI	7207-86553	1/4	6.4	1/2-20	0.75	19.1
6LOC-5RFI	7207-10655	3/8	9.5	1/2-20	0.75	19.1
6LOC-6RFI	7207-86554	3/8	9.5	5/8-18	0.88	22.4
8LOC-8RFI	7207-10665	1/2	12.7	3/4-18	0.93	23.6

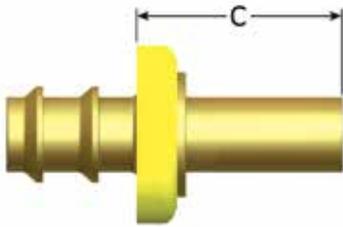
SAE Stand Pipe



Coupling Description	Gates Part Number	Hose I.D.		Pipe O.D.		C	
		(In.)	(mm)	(In.)	(mm)	(In.)	(mm)
6LOC-6RSP	7207-86564	3/8	9.5	3/8	9.5	1.25	31.8
8LOC-8RSP	7207-10675	1/2	12.7	1/2	12.7	1.00	25.4
10LOC-10RSP	7207-10685	5/8	15.9	5/8	15.9	1.00	25.4

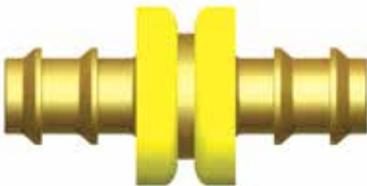


Flareless Tube Fitting (Compression Type)



Coupling Description	Part Number	Hose I.D.		Pipe O.D.		C	
		(In.)	(mm)	(In.)	(mm)	(In.)	(mm)
4LOC-3RFT	7207-86561	1/4	6.4	3/16	4.8	0.75	19.1
4LOC-4RFT	7207-86562	1/4	6.4	1/4	6.4	1.00	25.4
4LOC-5RFT	7207-86563	1/4	6.4	5/16	7.9	1.13	28.7
8LOC-8RFT	7207-86565	1/2	12.7	1/2	12.7	1.00	25.4
10LOC-10RFT	7207-86566	5/8	15.9	5/8	15.9	1.00	25.4

Hose Mender



Coupling Description	Part Number	Hose I.D.	
		(In.)	(mm)
4LOC-4RHM	7207-86571	1/4	6.4
5LOC-5RHM	7207-86575	5/16	7.9
6LOC-6RHM	7207-86572	3/8	9.5
8LOC-8RHM	7207-86573	1/2	12.7
10LOC-10RHM	7207-86574	5/8	15.8
12LOC-12RHM	7207-86577	3/4	19.1

Air & Multi-Purpose Hose

GLX™ Couplings for Industrial Hoses

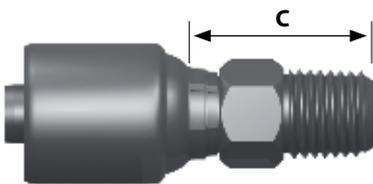


The Gates GLX™ coupling is specifically designed for textile-reinforced hoses up to 1,000 psi working pressure. You can be confident this coupling is backed by all the solid design expertise, extensive testing and robust quality that you expect from Gates.

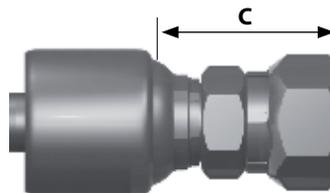
GLX™ couplings are finished with the exclusive Gates TuffCoat™ plating providing four times greater rust resistance than standard plating.

The GLX™ coupling line brings simplicity and efficiency to your assembly operations. One coupling per size fits Air and Multi-Purpose, LP350 and many of our other hoses. There's no need to decide which ferrule to use with which hose. This simplifies your assembly procedures, while keeping inventories to a minimum. Following Gates crimp recommendations ensures assemblies with top quality, performance and safety.

Male Pipe (NPTF - 30° Cone Seat)



Female JIC 37° Flare Swivel



Coupling Description	 Part Number	Hose I.D.		C
		(In.)		(mm)
4GLX-2MP	7107-00105	1/4	1/8-27	24.9
4GLX-4MP	7107-00115	1/4	1/4-18	29.0
6GLX-4MP	7107-00135	3/8	1/4-18	31.0
6GLX-6MP	7107-00145	3/8	3/8-18	31.0
8GLX-6MP	7107-00165	1/2	3/8-18	31.5
8GLX-8MP	7107-00175	1/2	1/2-14	35.6
8GLX-12MP	7107-00785	1/2	3/4-14	36.9
10GLX-8MP	7107-00195	5/8	1/2-14	39.3
12GLX-8MP	7107-00215	3/4	1/2-14	37.1
12GLX-12MP	7107-00225	3/4	3/4-14	37.1
16GLX-16MP	7107-00255	1	1-11 1/2	47.8
20GLX-20MP	7107-00265	1 1/4	1/4-11 1/2	53.0

Coupling Description	 Part Number	Hose I.D.		C
		(In.)		(mm)
4GLX-4FJX	7107-00275	1/4	7/16-20	27.4
6GLX-6FJX	7107-00285	3/8	9/16-18	30.2
8GLX-8FJX	7107-00295	1/2	3/4-16	34.0
10GLX-10FJX	7107-00305	5/8	7/8-14	36.0
12GLX-12FJX	7107-00315	3/4	1 1/16-12	42.4
16GLX-16FJX	7107-00325	1	1 5/16-12	49.3
20GLX-20FJX	7107-00335	1 1/4	1 5/8-12	57.4

NOTE: For other available end terminations please contact Gates Customer Service.



Air & Multi-Purpose Hose

Scorpion™ (Specification 3618HT) (MINE MASTER™ AIR DRILL 600 HT)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1 1/2	38.1	2.02	51.3	600	4.13	—	—	12.0	305	1.60	15*	3618-0311
2	50.8	2.62	66.6	600	4.13	—	—	16.0	406	2.18	15*	3618-0312
2 1/2	63.5	3.12	79.3	600	4.13	—	—	18.0	457	2.70	15*	3618-0313
3	76.2	3.77	95.8	600	4.13	—	—	20.0	508	4.22	15*	3618-0314
4	101.6	4.79	121.7	600	4.13	—	—	25.6	650	5.91	15*	3618-0315

* Non-stock. Please contact Gates Customer Service for availability. Minimum order quantities may apply to some sizes.

Recommended for:

Scorpion™ wire braided hose is ideal for industrial, construction, pneumatic mining and drilling applications requiring a high degree of hot air resistance.

Temperature: -40°C to +135°C service range.

Construction:

Tube: Type J (CPE). Black.

Reinforcement: High tensile steel wire.

Cover: Type J (CPE). Black. All sizes are perforated.

Packaging: All lengths coiled in a carton. Maximum of 2 pieces. Minimum length of 3m.

Branding: Continuous transfer label

Example:  Scorpion Hi-Temp Air Drill 600psi (4.13MPa) WP Made In USA.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Tube: RMA (Class B) Medium oil resistance

Air & Multi-Purpose Hose

18MB Air Drill (Wire Braid) (Specification 3618/3618GL) (MINE MASTER™ AIR DRILL 500)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
3/4	19.1	1.28	32.5	500	3.45	25.0	635	6.0	152	0.97	15*	3618-0011
1	25.4	1.55	39.4	500	3.45	25.0	635	8.0	203	1.28	15*	3618-0021
1 1/2	38.1	2.21	56.1	500	3.45	15.0	381	12.0	305	2.12	15*	3618-0041
2	50.8	2.77	70.4	600	4.14	15.0	381	14.0	356	3.43	15	3618-0051
2 1/2	63.5	3.46	87.9	500	3.45	10.0	254	30.0	762	4.89	15	3618-0201
3	76.2	3.97	100.8	500	3.45	10.0	254	36.0	914	6.67	15	3618-0215
4	101.6	5.06	128.5	500	3.45	10.0	254	47.6	1219	7.93	15*	3618-0225

* Non-stock. Please contact Gates Customer Service for availability. Minimum order quantities may apply to some sizes.

Recommended for:

Premium quality 18MB is ready when the going gets tough. It is designed for extra heavy-duty, high pressure use on industrial, construction, and pneumatic mining applications requiring a sturdy wire braided hose with an oil resistant tube and abrasion resistant cover.

Temperature: -34°C to +100°C continuous service.

Construction:

Tube: Type A (Neoprene). Black.

Reinforcement: Braided, high tensile steel wire.

Cover: All sizes are perforated.

3/4" – 1 1/4": Type C₂ (modified Nitrile). Gray with yellow spiral stripe.

1 1/2" – 4": Type D₃ (Natural Rubber). Gray with yellow spiral stripe.

Packaging:

3/4" through 1 1/2": Packaged 14.9m-15.24m length coiled in a carton.

2" through 4": Packaged 14.6m-15.24m length coiled in a carton.

Branding: Continuous transfer label.

Example:  18MB Premium Air Drill 500 PSI (3.45MPa) WP Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Tube: RMA (Class B) Medium oil resistance.

Air & Multi-Purpose Hose

1000 MP/Mine Spray (Specification 3619M) (MINE MASTER™ SPRAY 1000)



15 Metre Carton

Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1/2	12.7	0.84	21.3	1000	6.90	30.0	762	5.0	127	0.43	15*	3619-0699
3/4	19.1	1.10	27.9	1000	6.90	25.0	635	7.9	203	0.64	15*	3619-0700
1	25.4	1.42	36.1	1000	6.90	25.0	635	11.0	279	0.98	15*	3619-0701
1 1/4	31.8	1.69	42.9	1000	6.90	20.0	508	16.0	406	1.21	15*	3619-0702
1 1/2	38.1	1.92	48.8	1000	6.90	15.0	381	17.9	457	1.46	15*	3619-0708
2	50.8	2.45	62.0	1000	6.90	10.0	254	25.0	635	2.03	15*	3619-0760

30 Metre Carton

1/2	12.7	0.84	21.3	1000	6.90	30.0	762	5.0	127	0.43	30*	3619-0716
3/4	19.1	1.10	27.9	1000	6.90	25.0	635	7.9	203	0.64	30*	3619-0721
1	25.4	1.42	36.1	1000	6.90	25.0	635	11.0	279	0.98	30*	3619-0786
1 1/4	31.8	1.69	42.9	1000	6.90	20.0	508	16.0	406	1.21	30*	3619-0787
1 1/2	38.1	1.92	48.8	1000	6.90	15.0	381	17.9	457	1.46	30*	3619-0788
2	50.8	2.45	62.0	1000	6.90	10.0	254	25.0	635	2.03	30*	3619-0745

* Non-stock. Please contact Gates Customer Service for availability.

Recommended for:

1000MP is designed for high-pressure water service in underground mining applications and hot water washdown service.

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

Temperature: -40°C to +100°C service range.

Construction:

Tube: Type P (EPDM). Black.

Reinforcement: Braided, high tensile steel wire.

Cover: Type C₂ (Modified Nitrile). Yellow (non-marking). All sizes are perforated.

Couplings: Gates MegaCrimp®.

Packaging:

All lengths coiled in a carton (15m or 30m).

Branding:

Continuous transfer label.

Example:  1000 MP/Mine Spray 1 1/2 INCH (38.1mm) 1000 PSI (6.90MPa) WP

300 PSI (2.07MPa) MAX Air Service MSHA IC-11C MADE IN INDIA

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Cover: Meets MSHA 30CFR 18.65. Flame- resistant

Air & Multi-Purpose Hose

500 MP Air Drill (Wire Braid) (Specification 3618/3618Y) (MINE MASTER™ AIR DRILL 500 FR)



Black Cover (3618)

Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
3/4	19.1	1.11	28.2	500	3.45	25.0	635	6.0	152	0.62	30*	3618-0801
1	25.4	1.45	36.6	500	3.45	25.0	635	7.9	203	0.98	30*	3618-0802
1 1/4	31.8	1.74	44.2	500	3.45	15.0	381	10.0	254	1.28	30*	3618-0803
1 1/2	38.1	1.99	50.6	500	3.45	15.0	381	12.0	305	1.48	30*	3618-0804
2	50.8	2.50	63.5	500	3.45	15.0	381	14.0	356	2.10	30*	3618-0805
2 1/2	63.5	3.14	79.8	500	3.45	10.0	254	30.0	762	3.22	30	3618-0806
3	76.2	3.67	93.2	500	3.45	10.0	254	36.0	914	4.07	30*	3618-0807

NOTE: For 4" I.D. see 18MB

Yellow Cover (3618Y)

3/4	19.1	1.11	28.2	500	3.45	25.0	635	6.0	152	0.62	30	3618-0808
1	25.4	1.45	36.6	500	3.45	25.0	635	7.9	203	0.98	30*	3618-0809
1 1/4	31.8	1.74	44.2	500	3.45	15.0	381	10.0	254	1.28	30*	3618-0810
1 1/2	38.1	1.99	50.6	500	3.45	15.0	381	12.0	305	1.48	30*	3618-0811
2	50.8	2.50	63.5	500	3.45	15.0	381	14.0	356	2.13	30*	3618-0812
2 1/2	63.5	3.14	79.8	500	3.45	10.0	254	30.0	762	3.25	30*	3618-0813
3	76.2	3.67	93.2	500	3.45	10.0	254	36.0	914	4.13	30*	3618-0814

NOTE: For 4" I.D. see 18MB

* Non-stock. Please contact Gates Customer Service for availability.

Recommended for:

500MP is built to take all that rugged environments can give it. It's ideal for heavy-duty, high pressure use on industrial, construction, and pneumatic mining applications requiring a tough wire braided hose with an oil resistant tube and abrasion resistant cover.

Temperature: -30°C to +82°C continuous service.

Construction:

Tube: Type C (Nitrile). Black.

Reinforcement: Braided, high tensile steel wire.

Cover: All sizes are perforated.

Black: Type D₃ (Natural Rubber). Black with yellow stripe.

Yellow: Type C₄ (Modified Nitrile). Yellow with black stripe.

Packaging:

30m length coiled in a carton.

Branding:

Continuous transfer label.

Example: 500 MP/Air Drill 3/4 Inch (19.1mm) 500 PSI (3.45MPa) WP Made In India.

Continuous transfer label.

Example: 500 MP/Air Drill 3/4 Inch (19.1mm) 500 PSI (3.45MPa) WP MSHA IC-11C Made In India. (Yellow cover only)

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

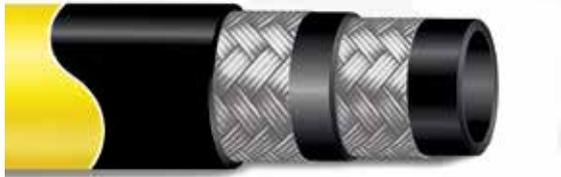
Tube: RMA (Class B) Medium oil resistance.

Cover: MSHA 30CFR 18.65, flame resistant.

Yellow cover only.

Air & Multi-Purpose Hose

Longwall Mine Emulsion (Specification 3619MC/3619MY) (MINE MASTER™ LONGWALL EMULSION 1000)



Black Cover (3619MC)

15 Metre Carton

Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.	
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(kg)	(m.)	(m.)	
2 1/2	63.5	3.34	84.8	1000	6.90	10.0	254	20.0	508	4.32	15*		3619-0809
3	76.2	3.91	99.3	1000	6.90	10.0	254	20.0	508	6.04	15*		3619-0810

30 Metre Carton

2 1/2	63.5	3.34	84.8	1000	6.90	10.0	254	20.0	508	4.32	30*		3619-0811
3	76.2	3.91	99.3	1000	6.90	10.0	254	20.0	508	6.04	30*		3619-3531

Yellow Cover (3619MY)

3	76.2	3.91	99.3	1000	6.90	10.0	254	20.0	508	4.32	15*		3619-0051
3	76.2	3.91	99.3	1000	6.90	10.0	254	20.0	508	6.04	30*		3619-3530

* Non-stock. Please contact Gates Customer Service for availability.

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 rough mining environment.

Temperature: -40°C to +100°C service range.

Construction:

Tube: Type A (Neoprene). Black.

Reinforcement: Two braids of high tensile steel wire.

Cover: Type C₂ (Modified Nitrile). Black.

Type C₄ (Modified Nitrile). Yellow (non-marking)

Couplings: Gates MegaCrimp®.

Packaging:

All lengths coiled in a carton (15m or 30m).

Branding: Continuous transfer label.

Continuous ink brand.

Example: Longwall Mine Emulsion 3" (76.2mm) 1000 PSI (6.90MPa)WP MSHA 2G-IC-11C Made In India.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

1000 PSI (6.90MPa) WP MSHA IC-11C Made In India (Yellow cover only).

Standards:

Cover: Meets MSHA 30CFR 18.65. Flame Resistant.

Air & Multi-Purpose Hose

Omega® (Pot Room) (Specification 3237A) (PLANT MASTER™ 300 NC)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius	Kg. Per	Standard Pack	Part No.	
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
3/8	9.5	0.75	19.1	300	2.07	30.0	762	3.0	76	0.33	190*	3237-0704
1/2	12.7	0.88	22.4	300	2.07	25.0	635	5.0	127	0.40	190*	3237-0705
3/4	19.1	1.16	29.5	300	2.07	20.0	508	6.0	152	0.58	190*	3237-0706

* Non-stock. Please contact Gates Customer Service for availability.

NOTE: For additional sizes see Premo Flex®

Recommended for:

Omega® is the premium choice for medium duty air and water applications where a hose with high electrical resistance is needed.

Temperature: -29°C to +66°C continuous service.

Construction:

Tube: Type P (EPDM). Green.

Reinforcement: High tensile synthetic textile cord.

Cover: Type P (EPDM). Red

Couplings: Gates GLX™.

Packaging:

3/8" through 3/4": Packaged in 152m to 228m reels. Maximum of 3 pieces. Minimum length of 15m.

Branding: Continuous ink print label.

Example: Omega® Air and Water 3/8 INCH (9.5mm) 300 PSI (2.07 MPa)

WP NONCONDUCTIVE @ 1000V D.C. (>1 MEGOHM/IN.) Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Cover: Nonconductive at 1000 volts D.C.

Meets electrical resistance of one mega ohm per inch when subjected to 1000 volts D.C. Storage and use may adversely affect electrical properties.

Divers Hose

33HB (Divers Air) (Specification 3333) (AIR MASTER™ DIVING UMBILICAL 1000/1125)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
3/8	9.5	0.75	19.1	1125	7.76	30.0	762	4.0	102.0	0.28	201-213*	3333-0015
3/8	9.5	0.75	19.1	1125	7.76	30.0	762	4.0	102.0	0.28	305+*	3333-0017
1/2	12.7	0.94	23.9	1000	6.9	30.0	762	5.0	127.0	0.43	15-91*	3333-0038
1/2	12.7	0.94	23.9	1000	6.9	30.0	762	5.0	127.0	0.43	305+*	3333-0035

* Non-stock. Please contact Gates Customer Service for availability. Minimum order quantities may apply.

Recommended for:

33HB is 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.

Temperature: -40°C to +49°C continuous service.

Construction:

Tube: C(Nitrile).Black.

Reinforcement: Braided, high tensile synthetic textile cord.

Cover: A (Neoprene). Black. All sizes are perforated.

Couplings: Corrosion resistant couplings supplied and applied by diving contractors and Gates 33HB Divers' Air Hose Couplings.

Packaging:

Lengths >91m packaged on reel, one continuous length.

Lengths <91m coiled in a carton, one continuous length.

Branding: Continuous ink print label.

Example: 33HB Divers Air 3/8 INCH (9.5mm) Made in U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Cover: Meets MIL-H-2815G Section 3.12.2 off-gassing for air breathing applications, especially diving.

Divers Air Hose Couplings

Ferrule

Nom I.D.	Description	Gates Part No.	Standard Pack	Material
(In.)	(mm)		(ea)	
3/8	9.5	33HB-6-FRLB	7207-0597	50 Brass



Stem

Nom I.D.	Description	Gates Part No.	Standard Pack	Material		
(In.)	(mm)		(ea)			
3/8	9.5	33HB-6-6RFJX-STB	7207-0598	50	Brass	9/16"-18 UNF
3/8	9.5	33HB-6-6RWELD-STB	7207-0599	50	Brass	9/16"-18 UNF



NOTE: These couplings are to be used with 33HB Divers' Air hose only.

Divers Hose

High Pressure Air Gauge (Specification 3233) (AIR MASTER™ SCUBA 5000)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius	Kg. Per	Standard Pack	Part No.	
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(m.)	(m.)		
3/16	5.1	0.51	13.0	5000	34.5	28.0	711	2.0	50	0.15	200*	3233-0148

* Non-stock. Please contact Gates Customer Service for availability. Minimum order quantities may apply.

Recommended for:

Divers Gauge hose is specifically designed 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.

Temperature: -40°C to +49°C continuous service.

Construction:

Tube: C (Nitrile). Black.

Reinforcement: Braided, high tensile synthetic textile cord.

Cover: A (Neoprene). Black.

Couplings: Corrosion resistant couplings supplied and applied by diving contractors.

Packaging:

200 meter length coiled in carton. Maximum of 10 pieces. Minimum Length 7m.

Branding: Continuous ink print label.

Example: Aqua-Pilot 3/16" ID (4.8mm) 5000 PSI WP (34.5MPa) Meets BS EN 250:2000 Made In India EB

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Meets BS EN 250:2000 requirements

Food & Beverage Hose

Food & Beverage Master® (Specification 3132C) (FOOD MASTER™ XTREME™ 250 SD CR)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
3/4	19.1	1.22	31.0	250	1.72	30.0	762	2.0	51	0.62	30	3132-0222
1	25.4	1.48	37.6	250	1.72	30.0	762	3.0	76	0.79	30	3132-0216
1 1/2	38.1	2.07	52.6	250	1.72	30.0	762	4.5	114	1.35	30	3132-0217
2	50.8	2.62	66.6	250	1.72	30.0	762	6.0	152	1.77	30	3132-0218
2 1/2	63.5	3.25	82.6	250	1.72	30.0	762	12.0	305	2.69	30	3132-0219
3	76.2	3.86	98.0	250	1.72	30.0	762	18.0	457	3.67	30	3132-0220
4	101.6	4.88	124.0	250	1.72	30.0	762	36.0	914	4.82	30	3132-0221

Recommended for:

Featuring a glass-smooth Sanitron™ tube, Food & Beverage Master® is ideal for the transfer of a range of products requiring an FDA sanitary hose including: wine, beer, ale, milk, juices, soft drinks, cosmetics, pharmaceuticals and water-based products that require an FDA sanitary hose.

It is also suitable for many dry bulk products via suction, pneumatic, or gravity transfers where a sanitary hose is required.

Temperature: -40°C to +110°C continuous service.

Construction:

Tube: Type S (Sanitron™). White.

Reinforcement: Synthetic, high tensile textile with static conductive filament; resilient monofilament helix providing crush and kink resistance.

Cover: Type P (EPDM). White with burgundy spiral stripe.

Packaging: 30m length coiled and wrapped in polyethylene.

Branding: Continuous transfer label.

Example:  Food & Beverage Master Meets FDA, 3A and USDA 250 PSI WP (1.72MPa) Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Meets FDA Requirements, 3A-Class 3 and USDA.

GATES VALUE POINT: SANITRON™

Sanitron™ is a proprietary elastomer blend developed by Gates for use in Food & Beverage Master®. As a tube material, Sanitron™ provides a glass-smooth interior surface for efficient product flow – a smoothness competitors can't match. It will not discolour foods and beverages or impart any unusual taste or odour during product transfer. And Sanitron™ is a snap to clean using open-end steam or high-temperature cleaning solutions up to 110°C. It meets all FDA and USDA standards and regulations.

A food processor's dream – only from Gates.

GATES VALUE POINT: FOOD GRADE HOSE ASSEMBLIES

Need an assembly and not just a bulk hose? Select the hose that meets your requirements, find out which couplings you need, and tell us the length of the assembly. We will manufacture the assembly, pressure test it and identify it for traceability. We have food grade SS crimped fittings available in all common end configurations, eg. BSM/RJT, Tri-Clamp and Cam-lock. Don't risk losing valuable produce such as vintage wines due to inferior hose assemblies.

Food & Beverage Hose

Cellar Master® Light (Specification 3132LW)
(FOOD MASTER™ BEVERAGE 150 SD CR)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius	Kg. Per	Standard Pack	Part No.	
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(m.)	(m.)		
1 1/2	38.1	2.00	50.8	150	1.03	30.0	762	6.0	152	0.97	30*	3132-0171
2	50.5	2.50	63.5	150	1.03	30.0	762	12.0	305	1.43	30	3132-0172
2 1/2	63.5	3.11	79.0	150	1.03	30.0	762	22.0	599	2.09	30*	3132-0173
3	76.2	3.75	95.3	150	1.03	30.0	762	20.0	356	2.42	30	3132-0174
4	101.6	4.79	120.9	150	1.03	30.0	762	28.0	610	4.19	30*	3132-0175

* Non-stock. Please contact Gates Customer Service for availability. Minimum order quantities may apply.

Recommended for:

Featuring a glass-smooth Sanitron™ tube, (see page 39 for more information) Cellar Master® light is ideal for the transfer of a range of products requiring an FDA sanitary hose including: wine, beer, ale, milk, juices, soft drinks, cosmetics, pharmaceuticals and water-based products.

Cellar Master® Light is specifically designed with the user in mind. The weight has been reduced to make handling and dragging the hose around as easy as possible.

Temperature: -40°C to +100°C continuous service.

Construction:

Tube: Type S (Sanitron™). White.

Reinforcement: Synthetic, high tensile textile with resilient monofilament helix providing crush and kink resistance.

Cover: Type P (EPDM). Grey with maroon spiral stripe.

Packaging: 30m length coiled and wrapped in polyethylene.

Branding: Continuous transfer label.

Example: Cellar Master® Light Meets FDA, 3A and USDA 150 PSI WP (1.03MPa) Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Meets FDA Requirements, 3A-Class 3 and USDA.

GATES VALUE POINT: MONOFILAMENT HELIX

Food & Beverage Master® along with Cellar Master® Light are made with a monofilament polyethylene helix instead of the traditional wire helix. This material provides the needed flexibility and kink resistance, while at the same time offers outstanding crush resistant capability. This results in longer hose life when occasional crush damage to the hose occurs. This helix also does not rust, and the hose construction is suitable for full vacuum (762mm Hg), making Food & Beverage Master® Light the premium hose in the business.

Food & Beverage Hose

Food Master™ Lite™ (Specification 3133) (FOOD MASTER™ OILS & DAIRY 150SD)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
3/4	19.1	1.33	33.8	150	1.03	30.0	762	2.0	51	0.98	30*	3133-0001
1	25.4	1.58	40.1	150	1.03	30.0	762	3.0	76	1.18	30*	3133-0002
1 1/2	38.1	2.10	53.3	150	1.03	30.0	762	4.5	114	1.71	30*	3133-0003
2	50.8	2.60	66.0	150	1.03	30.0	762	6.0	152	2.23	30*	3133-0004
2 1/2	63.5	3.13	79.5	150	1.03	30.0	762	12.0	305	2.95	30*	3133-0005
3	76.2	3.63	92.2	150	1.03	30.0	762	18.0	457	3.51	30*	3133-0006
4	101.6	4.65	118.1	150	1.03	30.0	762	24.0	610	4.66	30*	3133-0007
6	152.4	6.74	171.2	150	1.03	30.0	762	36.0	914	8.33	15*	3133-0008

* Non-stock. Please contact Gates Customer Service for availability.

Recommended for:

Use FoodMaster® Lite™ in transfer applications for a wide variety of food products including animal fat, vegetable oil, and other edible oils at temperatures up to 110°C.

This FDA sanitary hose is ideal for tank truck, barge, ship, or storage tank transfers. It is also suitable for transfers of ice cream and other dairy products requiring 3A-Class 3 standards.

Temperature: -40°C to +110°C continuous service.

Construction:

Tube: Type C₂ (Modified Nitrile). White.

Reinforcement: Synthetic, high tensile textile with steel wire helix.

Cover: Type C₂ (Modified Nitrile). White corrugated with burgundy spiral stripe.

Packaging:

All lengths coiled and wrapped in polyethylene.

Branding: Continuous transfer label.

Example:  FoodMaster® Lite™ Meets FDA, 3A and USDA 150 PSI (1.03MPa) WP Made in U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Tube meets FDA requirements, 3A-Class 3 and USDA.

Food & Beverage Hose

Food Master™ OILS & DAIRY 150SD MEGAFLEX™
(Specification 3133F)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1	25.4	1.47	37.3	150	1.03	30.0	762	2.0	51	0.26	30*	3133-0100
1 1/2	38.1	1.99	50.5	150	1.03	30.0	762	3.0	76	0.00	30*	3133-0101
2	50.8	2.51	63.8	150	1.03	30.0	762	4.0	102	0.52	30*	3133-0102
3	76.2	3.56	90.4	150	1.03	30.0	762	9.0	229	0.84	30*	3133-0103
4	101.6	4.73	120.1	150	1.03	30.0	762	12.0	305	1.39	30*	3133-0104

* Non-stock. Please contact Gates Customer Service for availability.

NOTE: For additional sizes see Food Master® Lite™

Recommended for:

Used in transfer applications for a wide variety of food products including animal fat, vegetable oil, and other edible oils at temperatures up to 110°C.

This FDA sanitary hose is ideal for tank truck, barge, ship, or storage tank transfers. It is also suitable for transfers of ice cream and other dairy products requiring 3A-Class 3 standards.

Temperature: -40°C to +110°C continuous service.

Construction:

Tube: Type C₂ (Modified Nitrile). Sanitary FDA and 3A-Class 3. Phthalate free. White.

Reinforcement: Synthetic, high tensile textile with steel wire helix providing kink resistance.

Cover: Type C₂ (Modified Nitrile). White corrugated with purple transfer label.

Packaging:

All lengths coiled and wrapped in polyethylene.

Branding: Continuous transfer label.

Example:  Food Master™ Oils & Dairy 150SD MegaFlex™ 150 PSI (10.3 BAR) Meets FDA, 3A and USDA [non toxic/phthalate free] Made In U.S.A.

Standards:

Tube meets FDA requirements, 3A-Class 3 and USDA.

Food & Beverage Hose

Aquarius® Potable Water (Specification 3132P)

(BLACK GOLD™ POTABLE WATER (150-300) D)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1	25.4	1.53	38.9	300	2.07	15.0	381	10.0	254	0.91	61*	3132-0803
2	50.8	2.70	69.9	300	2.07	10.0	254	14.0	356	2.18	61*	3132-0815
3	76.2	3.70	95.3	200	1.38	10.0	254	21.0	533	3.21	61*	3132-0823
4	101.6	4.70	119.6	150	1.03	10.0	254	28.0	711	4.03	61*	3132-0832

* Non-stock. Please contact Gates Customer Service for availability. Minimum order quantities may apply to some sizes.

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 and for transfer applications on offshore or onshore drilling rigs or platforms; applications which require a lightweight, flexible hose with a tight bend radius and a high rated working pressure in long continuous lengths.

Temperature: -40°C to +66°C continuous service.

Construction:

Tube: Type D₂ (Food Grade Natural Rubber). White

Reinforcement: Multiple plies of synthetic cord.

Cover: Type P (EPDM). Tan with green spiral stripe. Abrasion and weather resistant.

Packaging: All lengths coiled and wrapped in polyethylene.

Branding: Continuous transfer label.

Example:  Aquarius® Potable Water meets FDA stds. 200PSI (1.38MPa) WP Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Tube meets FDA requirements

Food & Beverage Hose

690SB (Bulk Commodity) (Specification 4693B)
(FOOD MASTER™ DRY GOODS (50 -150) SD)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1 1/2	38.1	2.23	56.6	150	1.03	30.0	762	10.0	254	2.10	30*	4693-0205
2	50.8	2.75	69.9	150	1.03	30.0	762	12.0	305	2.80	30*	4693-0210
2 1/2	63.5	3.23	82	125	0.86	30.0	762	15.0	381	3.36	30*	4693-0220
3	76.2	3.75	95.3	100	0.69	30.0	762	18.0	457	4.07	30*	4693-0225
4	101.6	4.71	119.6	75	0.52	30.0	762	24.0	610	5.23	30*	4693-0235
5	127	5.75	146	55	0.38	30.0	762	30.0	762	6.41	15*	4693-0251
6	152.4	6.91	175.5	50	0.34	30.0	762	36.0	914	10.56	15*	4693-0260

* Non-stock. Please contact Gates Customer Service for availability.

Recommended for:

With its natural rubber components, steel wire helix reinforcement, and corrugated cover, 690SB is ideal for the bulk transfer of food products such as flour, sugar, syrup, and edible grains where a strong, flexible, FDA sanitary tube is required. It can be used in suction, pneumatic, or gravity systems.

NOTE: Not recommended for vinegar, mustard or other compounds containing acetic acid.

Temperature: -40°C to +66°C continuous service.

Construction:

Tube: D₂ (Natural Rubber). Sanitary FDA. White. 3/16" (4.7mm) thick.

Reinforcement: High tensile synthetic textile with steel wire helix.

Cover: Type D₃ (Natural Rubber). Grey corrugated with burgundy spiral stripe.

Packaging: All lengths coiled and wrapped in polyethylene.

Branding: Continuous transfer label.

Example:  690SB Food-Beverage Transfer Meets FDA 100PSI (.69MPa) 3/16 Inch Tube Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Tube meets FDA requirements.

Marine Hose

Redback® Wet Exhaust - Marine (Specification 4684CF) (MARINE MASTER™ PLUS WET EXHAUST (15-100) SD)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius	Kg. Per	Standard Pack	Gates Part No.	
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1	25.4	1.44	36.6	100	0.69	25.0	635	3.0	76	0.75	3	4684-1540
1 1/8	28.6	1.56	39.6	100	0.69	25.0	635	4.0	102	0.82	3	4684-1545
1 1/4	31.8	1.69	42.9	100	0.69	25.0	635	4.0	102	0.92	3	4684-1551
1 3/8	34.9	1.81	46.0	85	0.59	25.0	635	4.0	102	0.98	3	4684-1556
1 1/2	38.1	1.94	49.3	85	0.59	25.0	635	4.0	102	1.05	3	4684-1561
1 5/8	41.3	2.06	52.3	75	0.52	20.0	508	5.0	127	1.12	3	4684-1601
1 3/4	44.5	2.19	55.6	75	0.52	20.0	508	5.0	127	1.18	3	4684-1611
1 7/8	47.6	2.31	58.7	60	0.41	20.0	508	5.0	127	1.25	3	4684-1651
2	50.8	2.44	62.0	60	0.41	20.0	508	5.0	127	1.31	3	4684-1660
2 1/8	54.0	2.56	65.0	55	0.38	20.0	508	6.0	152	1.38	3	4684-1670
2 1/4	57.2	2.69	68.3	55	0.38	20.0	508	6.0	152	1.48	3	4684-1680
2 3/8	60.3	2.81	71.4	50	0.34	20.0	508	7.0	178	1.54	3	4684-1690
2 1/2	63.5	2.94	74.7	50	0.34	20.0	508	7.0	178	1.61	3	4684-1700
2 5/8	66.7	3.06	77.7	40	0.28	15.0	381	9.0	229	1.67	3	4684-1711
2 3/4	69.9	3.19	81.0	40	0.28	15.0	381	10.0	254	1.74	3	4684-1720
2 7/8	73.0	3.31	84.1	40	0.28	15.0	381	11.0	279	1.80	3	4684-1730
3	76.2	3.44	87.4	40	0.28	15.0	381	12.0	305	1.87	3	4684-1740
3 1/2	88.9	4.06	103.1	35	0.24	15.0	381	17.0	432	2.17	3	4684-1750
4	101.6	4.44	112.8	30	0.21	10.0	254	24.0	610	2.43	3	4684-1760
4 1/2	114.3	4.94	125.5	25	0.17	5.0	127	27.0	686	2.76	3	4684-1764
5	127.0	5.44	138.2	15	0.10	5.0	127	30.0	702	3.02	3	4684-1766
6	152.4	6.46	164.1	15	0.10	5.0	127	36.0	914	3.61	3	4684-1722

Recommended for:

The corrugated Redback® (4684CF) exceeds SAE J20R2, SAE J20R5 and SAE J2006.

It is a highly flexible hose ideal for use in marine wet exhaust and general purpose applications where tight bends are required. It is also suitable for coolant lines.

Temperature: -40°C to +100°C continuous service.

Construction:

Tube: Type C (Nitrile). Black. Oil and heat resistant.

Reinforcement: Synthetic fabric with built-in wire.

Cover: Type A (Neoprene). Black with red spiral stripe. Oil and heat resistant.

Packaging:

1", 1-1/4", 1-3/8", 1-1/2", 1-5/8", 1-7/8": Packaged 15m coiled in a carton.

4 1/2" through 6": Packaged in straight lengths in woven fibre.

All other sizes: Packaged 3m per carton.

Branding: Continuous transfer labels every 3m.

Example:  4684CF Engine Coolant-Marine Wet Exhaust 2 Inch Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards: Meets requirements of SAE J20R2, SAE J20R5, and SAE J2006.

Tube: RMA (Class B) Medium oil resistance.

Cover: RMA (Class C) Limited oil resistance.

Marine Hose

4219G Fuel Line & Tank Vent (Specification 4219G) (MARINE MASTER™ FUEL LINE (35-50))



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
3/16	4.8	0.41	10.4	50	0.34	24.0	610	3.0	76	0.10	182	4219-0093
1/4	6.4	0.50	12.7	50	0.34	24.0	610	3.0	76	0.15	167	4219-0103
5/16	7.9	0.56	14.2	50	0.34	24.0	610	3.0	76	0.18	167	4219-0107
3/8	9.5	0.62	15.8	50	0.34	24.0	610	4.0	102	0.22	167	4219-0109
1/2	12.7	0.78	19.8	35	0.24	10.0	254	5.0	127	0.27	182	4219-0102
5/8	15.9	0.94	23.9	35	0.24	10.0	254	6.0	152	0.37	167	4219-0097

Recommended for:

4219G exceeds SAE 30R6 and SAE 30R7 and provides flexible connections between rigid fuel distribution lines and the vessel engine.

It can also be used in evaporative emission control systems and as a vent line.

For confined spaces consider the use of Fuel Line (USCG Type A1).

NOTE: Not recommended for fuel injection systems.

Temperature: -40°C to +125°C continuous service.

Construction:

Tube: Type C (Nitrile). Black. Oil, petrol and gasohol resistant.

Reinforcement: Single ply of synthetic fibre.

Cover: Type C₂ (NBR/PVC). Black. Fuel, oil, ozone and high temperature resistant.

Packaging:

3/16" through 5/8": Packaged in 137m to 198m reels. Maximum 5 pieces. One piece 7m to 14m. All other pieces 14m and over.

Branding:

Continuous ink label.

Example:  4219G Fuel Line PCV/EEC 3/8 Inch (9.5mm) SAE 30R7 Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Tube: RMA (Class A) High oil resistance.

Exceeds requirements of SAE 30R6 & SAE 30R7

Hose is NMMA type accepted.

Marine Hose

C5M Fuel Line (Specification 3658F) (MARINE MASTER™ FUEL LINE 500)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1/4	6.4	0.58	14.7	500	3.45	20.0	508	1.0	33	0.31	117*	3658-1965
5/16	7.9	0.67	17.0	500	3.45	20.0	508	1.3	33	0.40	117*	3658-1969
13/32	10.3	0.77	19.6	500	3.45	20.0	508	1.8	46	0.46	100	3658-1973
1/2	12.7	0.92	23.4	500	3.45	20.0	508	2.3	58	0.64	84*	3658-1977
5/8	15.9	1.08	27.4	500	3.45	20.0	508	2.8	71	0.79	67	3658-1981
7/8	22.2	1.23	31.2	500	3.45	20.0	508	3.5	89	0.82	50*	3658-1985

* Non-stock. Please contact Gates Customer Service for availability. Minimum order quantities may apply to some sizes.

Recommended for:

C5M is built for onshore/offshore and marine diesel fuel, petrol applications as well as hot oil lines up to +100°C. It is suitable for commercial and recreational vessels.

Temperature: 20°C to +100°C continuous service.

Construction:

Tube: Type C (Nitrile). Black.

Reinforcement: Braided, high tensile steel wire.

Cover: Type C₂ (Modified Nitrile). Blue.

Packaging:

1/4" and 5/16": Packaged in 117m reels. Maximum of 4 pieces. Minimum length of 3m.

13/32": Packaged in 100m reels. Maximum of 3 pieces. Minimum length of 3m.

1/2": Packaged in 84m reels. Maximum of 3 pieces. Minimum length of 3m.

5/8": Packaged in 67m reels. Maximum of 3 pieces. Minimum length of 3m.

7/8": Packaged in 50m reels. Maximum of 3 pieces. Minimum length of 3m.

Branding:

Continuous transfer label.

Example:  8 C5M SAEJ1527 USCG Type A1 ISO 7840-A1 Hose 500 PSI (3.45MPa) Flame Resistant USMSHA 2G-IC-11C/18

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Tube: RMA (Class A) High oil resistance.

Cover: RMA (Class C) Limited oil resistance.

Hose is NMMA type accepted.

Meets requirements of SAE J1942 and SAE J1527, USCG Type A, Class 1, Style R3, ISO 7840-A1, SAE J30R2, MSHA and ABS.

Marine Hose

Fuel Line (USCG Type A1) (Specification 4219M) (MARINE MASTER™ FUEL LINE 40 USCG TYPE A1)



7 Metre Carton

Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1/4	6.4	0.64	16.3	40	0.28	28.0	711	2.5	64	0.26	7*	4219-4145
5/16	7.9	0.70	17.8	40	0.28	28.0	711	3.0	76	0.29	7*	4219-4565
3/8	9.5	0.77	19.6	40	0.28	28.0	711	3.0	76	0.33	7*	4219-4385
1/2	12.7	0.89	22.6	40	0.28	28.0	711	5.0	127	0.40	7*	4219-4125
5/8	15.9	1.01	25.7	40	0.28	28.0	711	6.0	152	0.46	7*	4219-4585

15 Metre Carton

1/4	6.4	0.64	16.3	40	0.28	28.0	711	2.5	64	0.26	15*	4219-4146
5/16	7.9	0.70	17.8	40	0.28	28.0	711	3.0	76	0.29	15*	4219-4566
3/8	9.5	0.77	19.6	40	0.28	28.0	711	3.0	76	0.33	15*	4219-4567

76 Metre Reel

1/4	6.4	0.64	16.3	40	0.28	28.0	711	2.5	64	0.26	76*	4219-4140
5/16	7.9	0.70	17.8	40	0.28	28.0	711	3.0	76	0.29	76*	4219-4560
3/8	9.5	0.77	19.6	40	0.28	28.0	711	3.0	76	0.33	76*	4219-4380
1/2	12.7	0.89	22.6	40	0.28	28.0	711	5.0	127	0.40	76*	4219-4120
5/8	15.9	1.01	25.7	40	0.28	28.0	711	6.0	152	0.46	76*	4219-4580

* Non-stock. Please contact Gates Customer Service for availability.

Recommended for:

Flexible connections between rigid fuel distribution lines and engine. Excellent for vent lines and emission control systems. Suitable for marine diesel and petrol blends of ethanol, methanol and ethers up to 10%.

Temperature: -40°C to +100°C continuous service.

Construction:

Tube: Type C (Nitrile). Black.

Reinforcement: Braided, high tensile synthetic cord.

Cover: Type A (Neoprene). Black.

Packaging:

1/4" through 5/8": Packaged in 7m or 15m coiled in carton.
1/4" through 5/8": Packaged in 76m single piece reels.

Branding:

Continuous ink label.

Example:  4219M Fuel Line USCG Type A1 SAE J1527 NMMA Type. Accepted Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Tube: RMA (Class A) High oil resistance.

Hose is NMMA type accepted.

Meets requirements of SAE J1527, USCG Type 1 A, Class 1, Style R1.

Marine Hose

Vulco® Straight Coolant Hose (Specification 4178)



nom. I.d. 	Maxi. W.P. 	 Part no.
(In.)	(psi)	3 Foot (0.91m)
1/2	105	24008
3/4	80	24012
7/8	80	24014
1	75	24016
1 1/8	75	24018
1 1/4	65	24020
1 3/8	65	24022
1 1/2	60	24024

nom. I.d. 	Maxi. W.P. 	 Part no.
(In.)	(psi)	3 Foot (0.91m)
1 1/2	55	24026
1 3/4	50	24028
1 7/8	50	24030
2	55	24032
2 1/8	45	24034
2 1/4	40	24036
2 3/8	40	24038
2 1/2	35	24040

nom. I.d. 	Maxi. W.P. 	 Part no.
(In.)	(psi)	3 Foot (0.91m)
2 5/8	55	24042
2 3/4	50	24044
2 7/8	50	24046
3	55	24048
3 1/4	45	24052
3 1/2	40	24056
4	40	24064

Recommended for:

Specially engineered stick hose is ideal for straight coolant/air connections in automotive, stationary engine, industrial and home applications.

Cover marked in one-inch increments for easy measuring and cutting, allows "custom fit" light-duty coolant installations.

Temperature: -40°C to +125°C. continuous service.

Construction:

Tube: Type P (EPDM). Black.

Reinforcement: : Multiple plies of synthetic cord.

Cover: Type P (EPDM). Black . Heat Resistant.

Packaging: 3 ft (0.91m) lengths.

CAUTION: Do not use for fuel or oil transfer applications.

Branding:

Continuous transfer label

Example:  24032 Vulco 2" I.D. (51mm) Made in U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Tube: SAE 20R1 Standard Wall Class D-2

Marine Hose

Green Stripe® Straight Coolant Hose (Specification 4168)



ECR™
ELECTROCHEMICAL
RESISTANT

nom. I.d. 	Maxi. W.P. 	 Part no.
(In.)	(psi)	3 Foot (0.91m)
3/4	80	24212
7/8	75	24214
1	125	24216
1 1/8	100	24218
1 1/4	100	24220
1 3/8	100	24222
1 1/2	100	24224
1 5/8	85	24226
1 3/4	75	24228

nom. I.d. 	Maxi. W.P. 	 Part no.
(In.)	(psi)	3 Foot (0.91m)
1 7/8	75	24230
2	75	24232
2 1/8	60	24234
2 1/4	60	24236
2 3/8	60	24238
2 1/2	60	24240
2 5/8	60	24242
2 3/4	60	24244
2 7/8	55	24246

nom. I.d. 	Maxi. W.P. 	 Part no.
(In.)	(psi)	3 Foot (0.91m)
3	25	24248
3 1/8	25	24250
3 1/4	20	24252
3 1/2	18	24256
3 3/4	18	24260
4	12	24264
4 1/2	12	24272

Recommended for:

Provides the ability to replace many sizes of tailor-made curved hose. Results in maximum coverage with minimum inventory.

Bends easily to make curved connections. Cuts easily with knife and wire cutters to reduce installation time.

Reduces water loss from water permeation. Engineered to resist electrochemical degradation – the leading cause of hose failure.

Note: Long spans must be supported every 0.91m.

Temperature: -40°C to +125°C continuous service.

Construction:

Tube: Type P (EPDM). Black.

Reinforcement: Multiple plies of synthetic cord.

Cover: Type P (EPDM). Black. Heat Resistant.

Packaging:

3 ft (0.91m) lengths.

CAUTION: Do not use for fuel or oil transfer applications

Branding:

Continuous transfer label.

Example:  24232 Green Stripe® II Straight Coolant 2" I.D. (51mm) Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Exceeds SAE 20R1 Type 1 EC (Class D-1 Tube, and cover, Standard Wall).

Marine Hose

Green Stripe® 4-Ply Coolant Hose (Specification 4179G)



ECR™
ELECTROCHEMICAL
RESISTANT

nom. I.d.	Maxi. W.P.	Fates Part no.
(In.)	(psi)	3 Foot (0.91m)
1 3/4	100	24428
1 7/8	100	24430
2	90	24432
2 1/8	90	24434
2 1/4	90	24436
2 3/8	90	24438

nom. I.d.	Maxi. W.P.	Fates Part no.
(In.)	(psi)	3 Foot (0.91m)
2 1/2	75	24440
2 5/8	75	24442
2 3/4	60	24444
2 7/8	60	24446
3	60	24448
3 1/8	60	24450

nom. I.d.	Maxi. W.P.	Fates Part no.
(In.)	(psi)	3 Foot (0.91m)
3 1/4	50	24452
3 1/2	50	24456
3 5/8	50	24458
3 3/4	50	24460
4	40	24464
5	40	24480

Recommended for:

For severe operating conditions found on stationary engines, construction equipment and off-road vehicle applications. Specially compounded Nitrile rubber tube handles higher temperatures and resists petroleum additives. Reduces water loss from water permeating the hose wall and cover, a distinct advantage over silicone. Engineered to resist electrochemical degradation – the leading cause of hose failure.

Temperature: -40°C to +100°C continuous service, intermittent to 125°C.

CAUTION: Do not use for fuel or diesel transfer applications.

Construction:

Tube: Type C (Nitrile). Black.

Reinforcement: : Four plies of woven, heavy-duty fabric reinforcement

Cover: Type A (Neoprene). Black. Heat and Oil Resistant.

Packaging: 3 ft (0.91m) lengths.

CAUTION: Do not use for fuel or oil transfer applications.

Branding:

Continuous transfer label

Example:  24432 Green Stripe® 4-Ply (4y Straight Coolant 2" I.D. (51mm) Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Tube: Exceeds SAE 20R1 (Class B Tube, Class C Cover, Heavy Wall).

Marine Hose

Green Stripe® Wire-Inserted Coolant Hose (Specification 4685)



nom. I.d.	Maxi. W.P.	Vacuum	Min. Bend Radius	Part no.	
				5 Foot (1.52m)	10 Foot (3.05m)
(In.)	(psi)	(In. HG.)	(In.)		
1	100	25	2	-	28316
1 1/8	100	25	2 1/2	24918	-
1 1/4	100	25	2 1/2	24920	28320
1 3/8	85	25	3	24922	-
1 1/2	85	20	3 1/2	24924	28324
1 3/4	75	25	4	24928	28328
1 7/8	60	20	4 1/2	24930	28330
2	60	20	4 1/2	24932	28332
2 1/8	55	20	5 1/2	24934	-
2 1/4	55	20	5 1/2	24936	28336
2 3/8	50	20	6 1/2	24938	-
2 1/2	50	20	6 1/2	24940	28340
2 5/8	40	15	7 1/2	24942	-
2 3/4	40	15	7 1/2	24944	28344
2 7/8	40	15	9	24946	-
3	40	15	9	24948	28348
3 1/2	35	15	12	24956	28356
4	30	10	20	24964	-
5	15	5	24	24980	-

Recommended for:

Provides the ability to replace many sizes of tailor-made curved hose. Results in maximum coverage with minimum inventory.

Bends easily to make curved connections. Cuts easily with knife and wire cutters to reduce installation time.

Reduces water loss from water permeation. Engineered to resist electrochemical degradation – the leading cause of hose failure.

Note: Long spans must be supported every 0.91m.

Temperature: -40°C to +125°C continuous service.

CAUTION: Do not use for fuel or oil transfer applications.

Construction:

Tube: Type P (EPDM). Black.

Reinforcement: Heavy-duty fabric reinforcement with helical steel wire.

Cover: Type P (EPDM). Black. Heat Resistant

Packaging:

5 ft (1.52m) & 10 ft (3.05m) lengths.

Branding:

Continuous transfer label.

Example:  24432 Green Stripe® 4-Ply Straight Coolant 2" I.D. (51mm) Made In U.S.A.

Note: New naming system to be implemented as a running change.

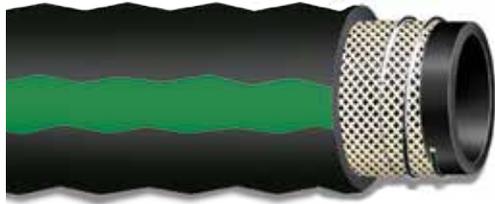
For your safety: Use permanent fittings only.

Standards:

Exceeds SAE 20R2 Type EC (Class D2 Tube and cover) except in vacuum applications.

Marine Hose

Green Stripe® Vulco-Flex® Coolant Hose (Specification 4284)



ECR™
ELECTROCHEMICAL
RESISTANT

STRAIGHT

nom. I.d.		Length	Maxi. W.P.	Part no.
(in.)	(mm)	(mm)	(psi)	
1 3/4	44.5	152	40	26601
1 3/4	44.5	216	40	26602
1 3/4	44.5	279	40	26603
1 3/4	44.5	343	40	26501
1 3/4	44.5	419	40	26502
1 3/4	44.5	483	40	26611
1 3/4	44.5	597	40	26612
2	50.8	241	40	26507
2	50.8	311	40	26508
2	50.8	368	40	26509
2	50.8	432	40	26510
2	50.8	508	40	26511
2	50.8	610	40	26512
2	50.8	838	40	26513
2 1/4	57.2	229	40	26519
2 1/4	57.2	279	40	26520
2 1/4	57.2	356	40	26521
2 1/4	57.2	432	40	26522
2 1/4	57.2	483	40	26523
2 1/4	57.2	610	40	26524
2 1/4	57.2	686	40	26525
2 1/2	63.5	279	40	26529
2 1/2	63.5	356	40	26530
2 1/2	63.5	406	40	26531
2 1/2	63.5	610	40	26532
2 1/2	63.5	711	40	26533
2 3/4	69.9	178	40	26534
2 3/4	69.9	356	40	26535
2 3/4	69.9	457	40	26536
2 3/4	69.9	813	40	26537
3	76.2	940	40	26538

REDUCERS

nom. I.d. - end 1		nom. I.d. - end 2	Length	Maxi. W.P.	Part no.	
(in.)	(mm)	(in.)	(mm)	(psi)		
1 3/4	44.5	2	50.8	254	40	26503
1 3/4	44.5	2	50.8	419	40	26504
1 3/4	44.5	2	50.8	483	40	26505
1 3/4	44.5	2	50.8	597	40	26506
2	50.8	2 1/4	57.2	216	40	26514
2	50.8	2 1/4	57.2	381	40	26515
2	50.8	2 1/4	57.2	445	40	26516
2	50.8	2 1/4	57.2	635	40	26517
2	50.8	2 1/2	63.5	508	40	26518
2 1/4	57.2	2 1/2	63.5	457	40	26526
2 1/4	57.2	2 1/2	63.5	533	40	26527
2 1/4	57.2	2 1/2	63.5	635	40	26528

Recommended for:

Heavy-duty flexible hose designed to replace straight or curved coolant hose. The benefit is maximum coverage with minimum inventory. Hose inside diameter remains constant from end to end.

Excellent flexibility, yet collapse and kink resistant. Engineered to resist electrochemical degradation – the leading cause of hose failure.

Temperature: -40°C to +125°C continuous service.
CAUTION: Do not use for fuel or oil transfer applications.

Construction:

Tube: Type P (EPDM). Black.

Reinforcement: Extra strength fabric reinforcement with helical steel wire.

Cover: Type A (Neoprene). Black. Heat Resistant.

Packaging: 5 lengths coiled in carton

Branding:

Continuous transfer label

Example:  26510 Green Stripe® Vulco-flex x 2" I.D. (51mm) Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Tube: SAE 20R5 Type EC Class D-2.



Marine Hose

Green Stripe® Heater Hose (Specification 3269S)



nom. I.d.		Maxi. W.P.	Part no.
(In.)	(mm)	(psi)	50 Foot (15.25m)
1/2	12.7	105	28439
5/8	15.9	95	28441
3/4	19.0	80	28442
7/8	22.2	80	28443
1	25.4	75	28444
1 1/4	31.7	70	28445

Recommended for:

Heavy-duty construction assures dependable operation in truck, bus and off-road equipment heater systems. Green Stripe® construction provides best cost-per-km economics.

Advanced EPDM tube, cover and reinforcement withstand high under-hood and coolant temperatures. Designed for extended use without cracking or hardening.

Reduces water loss from water permeating the hose wall and cover, a distinct advantage over silicone. Engineered to resist electrochemical degradation – the leading cause of hose failure.

Temperature: -40°C to +135°C continuous service.
CAUTION: Do not use for fuel or oil transfer applications.

Construction:

Tube: Type P (EPDM). Black.

Reinforcement: Fabric reinforcement.

Cover: Type P (EPDM). Black. Abrasion Resistant

Packaging:

Coiled in carton.

Branding:

Continuous transfer label.

Example:  Green Stripe Heater Hose 1/2" I.D. (12.7mm) – 105 PSI WP Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Exceeds SAE 20R1 Type EC, Standard Wall Class D-1.

Material Handling Hose

Master-Flex® 400 (Specification 7744)

(BULK MASTER-FLEX™ (25-40) SD AR)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1 1/2	38.1	1.88	47.8	40	0.28	28.0	711	3.0	76	0.60	30*	7744-6102
2	50.8	2.41	61.2	35	0.24	28.0	711	4.0	102	0.81	30*	7744-6103
2 1/2	63.5	2.98	75.7	35	0.24	28.0	711	5.0	127	1.15	30*	7744-6104
3	76.2	3.87	98.3	30	0.21	28.0	711	6.0	152	1.57	30*	7744-6105
4	101.6	4.65	118.1	30	0.21	28.0	711	8.0	203	2.54	30*	7744-6106
5	127.0	5.77	146.6	30	0.21	28.0	711	9.0	229	3.58	30*	7744-6107
6	152.4	6.86	174.2	25	0.17	28.0	711	12.0	305	4.79	30*	7744-6108
8	203.2	9.10	231.1	25	0.17	28.0	711	16.0	406	8.61	15*	7744-6209

Working Pressure and Suction at +22°C (+72°F).

* Non-stock. Please contact Gates Customer Service for availability. Minimum order quantities may apply to some sizes.

Recommended for:

Heavy duty abrasion resistant hose for transfer of dry bulk materials via suction, pneumatic or gravity systems where abrasion resistance is the primary requirement and a static conductive hose is needed.

Can also be used for vacuum or ducting service or handling abrasives such as crushed rock, sand pea gravel, cement powder, dry fertiliser, iron ore and grains.

Temperature: -34°C to +60°C.

Construction:

Tube: Type C (Nitrile). Black

Reinforcement: Rigid PVC helix. Black.

Cover: Type G (PVC). Black with grey helix. Corrugated.

Packaging:

All lengths coiled and wrapped in polythylene.

Branding: Unlabelled

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Tube: RMA (Class B) Medium Oil Resistance.

Material Handling Hose

429W (Sand Blast) (Specification 4129A) (BULK MASTER™ SANDBLAST (120-150) D)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1/2	12.7	1.23	31.2	150	1.03	25.0	635	5.0	127	0.82	15*	4129-0085
3/4	19.1	1.50	38.1	150	1.03	15.0	381	8.0	203	1.05	15*	4129-0086
1	25.4	1.63	41.4	150	1.03	5.0	127	12.0	305	0.75	15*	4129-0256
1	25.4	1.87	47.5	150	1.03	5.0	127	12.0	305	1.43	15*	4129-0100
1 1/4	31.8	2.16	54.9	150	1.03	5.0	127	12.0	305	1.67	15*	4129-0105
1 1/2	38.1	2.37	60.2	135	0.93	5.0	127	18.0	457	2.33	15*	4129-0150
2	50.8	2.94	74.7	120	0.83	5.0	127	20.0	508	2.98	15*	4129-0200

* Non-stock. Please contact Gates Customer Service for availability.

Recommended for:

With its rugged natural rubber static conductive tube, 429W can be used for sand, shot blasting, cleaning, cutting, and finishing products made of stone, metal, glass, and other materials.

It will handle metal shot and other abrasives carried at high velocity.

Temperature: -40°C to +66°C continuous service.

Construction:

Type: Type D₃ (Natural Rubber). Black. Static conductive.

Reinforcement: Synthetic, high tensile textile.

Cover: Type D (SBR). Black with yellow spiral stripe. All sizes are perforated.

Packaging:

15m length coiled and wrapped in polyethylene.

Branding: Continuous transfer label.

Example:  429W Sandblast 150 PSI (1.03MPa) WP Made In India

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

GATES VALUE POINT: RUBBER EXPERTISE

Whether it's natural or synthetic, nobody knows rubber like the experts at Gates. We've been manufacturing a variety of rubber products for industrial applications since 1917. Today, we bring you a line of material handling hose that has been designed, engineered, and manufactured to meet a variety of service requirements. All feature components selected and formulated by Gates rubber specialists can deliver the performance characteristics you want and need, providing resistance to abrasion, chemicals, UV, ozone, etc.

Nobody can make rubber products work like Gates.

Petroleum Transfer Hose

Gasflex® Curb Pump (Hard Wall) (Specification 3624) (FUEL MASTER™ CURB PUMP 101)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
5/8	16.0	1.00	25.4	101.5	0.7	30.0	762	6.0	152	0.61	107	3624-0814
3/4	20.0	1.26	32.0	101.5	0.7	30.0	762	6.0	152	0.92	122	3624-0815
1	25.0	1.49	38.0	101.5	0.7	25.0	635	8.0	203	1.11	61	3624-0816

Recommended for:

Dispensing all types of commercial petrol's, or other petroleum based products, from service station pumps.

Gasflex® Curb Pump is a heavy duty hard wall hose which does not collapse in reel use or behind the nozzle in heavy duty service.

Temperature: -30°C to +49°C continuous service.

Construction:

Tube: Type C (Nitrile). Black.

Reinforcement: Braided, high tensile steel wire.

Cover: Type C₂ (Modified Nitrile). Black.

Packaging:

5/8": Packaged 107m per reel.

3/4": Packaged 122m per reel

1": Packaged 61m per reel

Branding:

Example:  16mm GASFLEX Petrol Pump Hose AS 2683/2000 Type 4 grade 2 kind 1 and 2 WP 700KPA MADE IN INDIA.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

AS 2683/2000 Type 4 grade 2 kind 1 & 2

Petroleum Transfer Hose

Longhorn® Megaflex® (Specification 4688F) (FUEL MASTER™ 150 SD MEGAFLEX™)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1	25.4	1.41	35.8	150	1.03	30.0	762	1.0	25	0.69	30*	4688-1732
1 1/2	38.1	1.90	48.3	150	1.03	30.0	762	1.5	38	0.97	30*	4688-2031
2	50.8	2.39	60.7	150	1.03	30.0	762	2.0	51	1.28	30	4688-1733
3	76.2	3.44	87.4	150	1.03	30.0	762	3.0	76	2.16	30*	4688-1734
4	101.6	4.48	113.8	150	1.03	30.0	762	4.0	102	3.21	30	4688-1735
6	152.4	6.82	173.2	150	1.03	30.0	762	6.0	152	5.97	30*	4688-2033

* Non-stock. Please contact Gates Customer Service for availability.

Recommended for:

Transfer of refined fuels (commercial petrol and diesel fuel), oils and other petroleum products.

Ideal for tank truck, fuel farm, and oil field service truck use where a super flexible, maximum kink resistant fuel transfer hose is needed.

For bio-diesel and other alternative fuel applications, see Longhorn® AF.

CAUTION: Drain hose after use.

Temperature: -40°C to +82°C continuous service.

Warning: Do not convey fuels over +49°C.

Construction:

Tube: Type C (Nitrile).

Reinforcement: Synthetic, high tensile textile reinforcement with steel wire helix.

Cover: Type A (Chloroprene). Black with red stripe.

Packaging:

All lengths coiled and wrapped in polyethylene.

Branding: Continuous transfer label.

Example:  Longhorn® MegaFlex® Petroleum Transfer 150PSI (1.03MPa) W.P. Made In U.S.A.

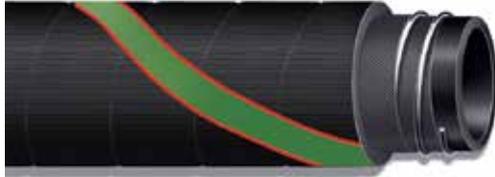
Note: New naming system to be implemented as a running change.

For your safety: Use Permanent Fittings Only.

Standards: Tube: ARPM (Class A) High oil resistance

Petroleum Transfer Hose

Longhorn® AF (Alternative Fuel) (Specification 4688AF) (FUEL MASTER™ XTREME™ 150 SD)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1	25.4	1.50	38.1	150	1.03	30.0	762	3.0	76	0.88	30*	4688-1700
1 1/4	31.8	1.75	44.5	150	1.03	30.0	762	4.0	102	1.04	30*	4688-1702
1 1/2	38.1	2.02	51.3	150	1.03	30.0	762	4.0	102	1.30	30*	4688-1704
2	50.8	2.52	64.0	150	1.03	30.0	762	6.0	152	1.64	30*	4688-1706
2 1/2	63.5	3.05	77.5	150	1.03	30.0	762	8.0	203	2.19	30*	4688-1708
3	76.2	3.58	90.9	150	1.03	30.0	762	9.0	229	2.77	30*	4688-1710
4	101.6	4.62	117.4	150	1.03	30.0	762	12.0	305	3.86	30*	4688-1712

* Non-stock. Please contact Gates Customer Service for availability.

Recommended for:

Longhorn® AF hose 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 transfer of commercial fuels, diesel fuels, oils and other petroleum products. It is ideal for tank truck, terminal loading and in-plant operations.

Temperature: -40°C to +82°C continuous service.

Warning: Do not convey fuels over +49°C.

Construction:

Tube: Type C (Nitrile). Black.

Reinforcement: Synthetic, high tensile textile with steelwire helix.

Cover: : Type C₂ (Modified Nitrile). Black with green and red spiral stripe.

Packaging:

All lengths coiled and wrapped in polyethylene.

Branding: Continuous transfer label.

Example:  Longhorn® AF 150 PSI (1.03MPa) WP Flame Resistant MSHA IC-4116 Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Tube: RMA (Class A) High oil resistance

Cover: RMA (Class A) High oil resistance

Meets MSHA 30 CFR 18.65. Flame resistant.

Petroleum Transfer Hose

LP350X Butane-Propane (Specification 3220SP) (FUEL MASTER™ LP 350)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1/4	6.4	0.58	14.7	350	2.41	30	762	3.0	76	0.16	213*	3220-1200
3/8	9.5	0.74	18.8	350	2.41	30	762	3.0	76	0.23	213*	3220-1202
1/2	12.7	0.91	23.1	350	2.41	25	635	5.0	127	0.33	213	3220-1204
3/4	19.1	1.23	31.2	350	2.41	20	508	6.0	152	0.66	107	3220-1206
3/4	19.1	1.23	31.2	350	2.41	20	508	6.0	152	0.66	30*	3220-1207
3/4	19.1	1.23	31.2	350	2.41	20	508	6.0	152	0.66	38	3220-1208
3/4	19.1	1.23	31.2	350	2.41	20	508	6.0	152	0.66	45	3220-1209
1	25.4	1.51	38.4	350	2.41	15	381	8.0	203	0.89	91*	3220-1210
1	25.4	1.51	38.4	350	2.41	15	381	8.0	203	0.89	30	3220-1211
1	25.4	1.51	38.4	350	2.41	15	381	8.0	203	0.89	38	3220-1212
1	25.4	1.51	38.4	350	2.41	15	381	8.0	203	0.89	45*	3220-1213

* Non-stock. Please contact Gates Customer Service for availability.

Recommended for:

LP350X is designed to convey liquid or gaseous propane, butane, or a combination of the two.

Consumer applications include gas grills, heaters, torches, and other outdoor equipment. It can also be used as an industrial transfer hose and for natural gas under certain conditions such as open/outside areas and well ventilated factory buildings (if local building codes permit).

NOTE: Not recommended for residential or office buildings. Contact Gates Customer Service for inspection and assembly testing information.

LP350X is for LPG and natural gas applications only.

Do not use for anhydrous ammonia or refrigeration applications.

Temperature: -40°C to +82°C continuous service.

Warning: Do not convey LP Gas over +60°C

Construction:

Tube: Type C (Nitrile). Black.

Reinforcement: High tensile synthetic textile cord.

Cover: Type A (Neoprene). Black. All sizes are perforated.

Couplings: Gates GLX™. Do not use male swivel, reusable or o-ring type couplings.

Packaging:

1/4" through 1/2": Packaged in 182m to 243m reels. Maximum 4 pieces. One length 7m to 15m. Maximum of 2 pieces under 30m.

3/4" through 1": Packaged in 91m to 121m reels. Maximum 3 pieces. One length 7m to 15m. All other lengths over 15m. Maximum of 2 pieces under 30m.

3/4" and 1" Cut lengths: Coiled in cartons.

Branding: Continuous molded strip brand label.

Example:  LP350X UL/CGA TYPE 1 LP-Gas Hose 1 INCH DO NOT EXCEED 350 PSI WP Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Underwriters Laboratories Standard No. 21. (Applies to all sizes). CAN/CGA-8.1-M86. (Applies to 1/4" through 1" sizes only). NFPA 58, Section 2-4.6.

Petroleum Transfer Hose

LP350 Butane-Propane (Specification 3220LP, 3320) (FUEL MASTER™ LP 350)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1 1/4	31.8	1.85	47.0	350	2.41	10.0	254	10.0	254	1.46	30	3220-3221
1 1/2	38.1	2.25	57.2	350	2.41	10.0	254	12.0	305	1.88	18*	3320-0935
2	50.8	2.86	72.6	350	2.41	10.0	254	14.0	356	2.70	18	3320-0938
3	76.2	3.88	98.6	350	2.41	10.0	254	24.0	610	3.85	18*	3320-0934

* Non-stock. Please contact Gates Customer Service for availability.

Recommended for:

LP350 is designed to convey liquid or gaseous propane, butane, or a combination of the two.

Consumer applications include gas grills, heaters, torches, and other outdoor equipment. It can also be used as an industrial transfer hose and for natural gas under certain conditions such as open/outside areas and well ventilated factory buildings (if local building codes permit).

NOTE: Not recommended for residential or office buildings. Contact Gates Customer Service for inspection and assembly testing information.

LP350 is for LPG and natural gas applications only.

Do not use for anhydrous ammonia or refrigeration applications.

Temperature: --40°C to +82°C continuous service.

Warning: Do not convey LP Gas over +60°C

Construction:

Tube: Type C (Nitrile) 1-1/4". Black. Type A (Neoprene) 1-1/2", 2" and 3" Black

Reinforcement: Braided, high tensile synthetic textile cord.

Cover: Type A (Neoprene). Black. All sizes are perforated.

Couplings: Gates Power Crimp (1-1/4" to 2")

Do not use male swivel, reusable or o-ring type couplings.

Packaging:

1 1/4": Packaged 30m in a carton.

1 1/2" through 3": Packaged 18m in a carton.

Branding: Continuous transfer label.

Example:  GATES LP350 LP-Gas Hose 2 INCH DO NOT EXCEED 350 PSI WP Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Underwriters Laboratories Standard No. 21.
(Applies to all sizes). NFPA 58, Section 2-4.6.

Petroleum Transfer Hose

LPG Vapour (Specification 3220E) (FUEL MASTER™ LPG VAPOR 125)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
3/16	4.8	0.44	11.2	125	0.86	30.0	762	2.0	51	0.13	213*	3220-0451
1/4	6.4	0.53	13.5	125	0.86	30.0	762	3.0	76	0.16	213	3220-0456
3/8	9.5	0.66	16.8	125	0.86	25.0	635	3.0	76	0.20	213	3220-0461

* Non-stock. Please contact Gates Customer Service for availability.

Recommended for:

LPG Vapour is a flexible connector for conveying low pressure LPG (vapor only) in many types of heating/ cooking equipment such as space heaters, outdoor gas grills, and trailer/camper stoves.

NOTE: Meets requirements of UL® Bulletin 569, low pressure type. However, only coupled assemblies actually receive UL approval. Makers of coupled hose assemblies are responsible for UL approval of their assemblies.

Not recommended for automotive under bonnet applications.

Temperature: -34°C to +66°C continuous service.

Construction:

Tube: Type C (Nitrile). Black..

Reinforcement: High tensile synthetic textile cord.

Cover: Type A (Neoprene). Black.

Packaging:

3/16" through 3/8": Packaged in 182m to 243 reels. Maximum 4 pieces. One length 7m to 15m. Maximum of 2 lengths under 30m.

Branding:

Continuous ink print label.

Example:  LPG Vapor 3/8 Inch (9.5mm) 125 PSI (.86MPa) WP Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Underwriters Laboratories Standard No. 569 (Applies to hose assemblies only).

Petroleum Transfer Hose

Sea Horse® 400 Fuel Transfer (Specification 4110SH) (BLACK GOLD™ OILFIELD SERVICE 400 D)



Neoprene (4110SH)

Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
2	50.8	2.70	68.6	400	2.76	10.0	254	17.0	432	0.69	61*	4110-0715
3	76.2	3.67	93.2	400	2.76	10.0	254	22.0	559	0.97	61*	4110-0716
4	101.6	4.83	122.7	400	2.76	10.0	254	30.0	762	1.56	61*	4110-0717

MegaTuff® UHMWPE (4110MT)

Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
3	76.2	3.67	93.2	400	2.76	10.0	254	22.0	559	1.11	30*	4110-1107
3	76.2	3.67	93.2	400	2.76	10.0	254	22.0	559	1.11	61*	4110-1101
4	101.6	4.83	122.7	400	2.76	10.0	254	30.0	762	1.67	30*	4110-1108
4	101.6	4.83	122.7	400	2.76	10.0	254	30.0	762	1.67	61*	4110-1102

* Non-stock. Please contact Gates Customer Service for availability.

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 petrol, 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 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.

For bio-diesel and other alternative fuel applications, see Longhorn® AF. 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°C to +82°C continuous service.
Warning: Do not convey fuels over +49°C.

Construction:

Tube: Type C (Nitrile). Black.

Reinforcement: Synthetic, high tensile textile with double static wire.

Cover: Type A (Neoprene). Black with red spiral stripe.

Packaging:

All lengths coiled and wrapped in polyethylene.

Branding:

Continuous transfer label.
Example: Sea Horse® 400 Fuel Transfer 400 PSI (2.76MPa) WP Made In U.S.A

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Tube: RMA (Class A) High oil resistance

Petroleum Transfer Hose

OILFIELD SERVICE® 400SD (Specification 4110SH, 4110MT)
(BLACK GOLD™ OILFIELD SERVICE 400 SD)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
2	50.8	2.84	72.1	400	2.76	30.0	762	15.0	381	3.03	60*	4688-0590
3	76.2	4.00	101.6	400	2.76	30.0	762	20.0	508	5.46	60*	4688-0591
4	101.6	4.99	126.8	400	2.76	30.0	762	25.0	635	5.29	60*	4688-0592

* Non-stock. Please contact Gates Customer Service for availability.

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 petrol, 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 lightweight, 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 Longhorn® AF. 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°C to +82°C continuous service.
Warning: Do not convey fuels over +49°C.

Construction:

Tube: Type C (Nitrile). Black.

Reinforcement: Synthetic, high tensile textile with steel wire helix.

Cover: Type A (Neoprene). Black with red spiral stripe.

Packaging:

All lengths coiled and wrapped in polyethylene.

Branding: Continuous transfer label.

Example:  Oilfield Service 400SD 150 PSI (2.76MPa) WP Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

RMA (Class A) High oil resistance.

Oilfield Hose



The Gates commitment to the oilfield industry is reflected in our experience and in our complete product line. We make technically superior products to serve the industry:

- Full line of specialty oilfield hoses manufactured to the API 7K specification
- Full line of hydraulic hose and connectors
- Hydraulic crimpers and equipment
- Complete industrial hose line

Gates Black Gold® Rotary Drilling/Vibrator Hose or Motion Compensator Hose

Recommended for: Flexible connection between standpipe and swivel (Rotary Drilling) or between pump and standpipe (Rotary Vibrator) for pumping mud at extra high pressure in oil drilling and exploration work. Meets the high demands of directional drilling and down linking with negative pressure pulses and elevated temperatures. This hose can also be used as a Motion Compensator hose for stabilization of rotary drilling and pumping equipment against vertical wave action on offshore drill platforms. **The Motion Compensator hose is not recommended for phosphate ester fluid.**

API Grade D (Specification 4774PE)

**5,000 psi W.P. - 10,000 psi Test
(12,500 Minimum Burst)**



Available Sizes: 2½", 3", 3½" & 4" I.D.

API Grade E (Specification 4773PE)

**7,500 psi W.P. - 15,000 psi Test
(18,750 Minimum Burst)**



(Shown with Female Sub Hammer Union)

Available Sizes: 2½", 3", 3½" & 4" I.D.

Gates Black Gold® Cementing Hose (with nitrile Tube)

Recommended for: Used as a flexible connection between the cementing pump manifold and cementing head for conveyance of cement slurries at high pressure.

API Grade D (Specification 4774PE)

**5,000 psi W.P. - 10,000 psi Test
(12,500 Minimum Burst)**



Available Sizes: 2½", 3", 3½" & 4" I.D.

API Grade E (Specification 4773PE)

**10,000 psi W.P. - 15,000 psi Test
(22,500 Minimum Burst)**



(Shown with Female Sub Hammer Union)

Available Sizes: 2½", 3", 3½" & 4" I.D.

For more detailed information please visit www.gatesaustralia.com.au/oilfieldhose.

For enquiries on other hose options or quotations on hose assemblies please contact Gates Technical Assistance via gatestech@gates.com or contact Gates Customer Service.



Gates Black Gold® Cementing Hose

Recommended for: Used as a flexible connection between the cementing pump manifold and cementing head for conveyance of cement slurries at high pressure.

API Grade D (Specification 4651ZL)

**5,000 psi W.P. - 10,000 psi Test
(12,500 Minimum Burst)**



Available Sizes: 2" I.D.

API Grade E (Specification 4651ZA)

**10,000 psi W.P. - 15,000 psi Test
(22,500 Minimum Burst)**



Available Sizes: 2" I.D.

Gates Black Gold® Cementing Hose (With Fluroelastomer) (Specification 4758L)

Recommended for: Used as a flexible connection between the cementing pump manifold and cementing head for conveyance of cement slurries at high pressure.

**15,000 psi W.P. - 22,500 psi Test
(33,750 Minimum Burst)**



(Shown with hub fitting)

Available Sizes: 2½" & 3" I.D.

Gates Black Gold® Sour Service Hose (Specification 4774F)

Recommended for: Flexible connection between the standpipe and swivel (rotary drilling) or between pump and standpipe (rotary vibrator).

(Specification 4774F)
**5,000 psi W.P. - 10,000 psi Test
(12,500 Minimum Burst)**



Available Sizes: 2½", 3", 3½" & 4" I.D.

(Specification 4773LE)
**7,500 W.P. - 15,000 psi Test
(18,750 Minimum Burst)**



(Shown with Female Sub Hammer Union)

Available Sizes: 2½", 3", 3½" & 4" I.D.

For more detailed information please visit www.gatesaustralia.com.au/oilfieldhose.

For enquiries on other hose options or quotations on hose assemblies please contact Gates Technical Assistance via gatestech@gates.com or contact Gates Customer Service.



Gates Black Gold® Choke and Kill Hose

Recommended for: Flexible hose between the riser and manifold or around the ball joint of offshore drilling rigs.

(Specification 4774F and 4773LE)

**5,000 psi W.P. - 10,000 psi Test
(12,500 Minimum Burst)**



Available Sizes: 2½", 3", 3½" & 4" I.D.

(Specification 4773LE)

**10,000 W.P. - 15,000 psi Test
(22,500 Minimum Burst)**



(Shown with API Flange)

Available Sizes: 2½", 3", 3½" & 4" I.D.

Gates Black Gold® Super Choke and Kill Hose (Specification 4758L)

Recommended for: Flexible hose between the riser and manifold or around the ball joint of offshore drilling rigs.

**15,000 psi W.P. - 22,500 psi Test
(33,750 Minimum Burst)**



(Shown with hub fitting)

Available Sizes: 2½" & 3" I.D.

Gates Black Gold® Decoking Hose

API Grade D

(Specification 4774PE)

**5,000 psi W.P. - 10,000 psi Test
(12,500 Minimum Burst)**



Available Sizes: 3", 3½" & 4" I.D.

API Grade E

(Specification 4773PE)

**7,500 psi W.P. - 15,000 psi Test
(18,750 Minimum Burst)**



(Shown with API Flange)

Available Sizes: 3", 3½" & 4" I.D.

For more detailed information please visit www.gatesaustralia.com.au/oilfieldhose.

For enquiries on other hose options or quotations on hose assemblies please contact Gates Technical Assistance via gatestech@gates.com or contact Gates Customer Service.

Oilfield Hose



Motion Compensator Hose (Plain End) (Specification 4651RL)

Recommended for: Stabilization of rotary drilling and pumping equipment against vertical wave action on offshore drill platforms.

2,500 psi W.P.

Available Sizes: 2" I.D.



Hot Oiler Hose (Specification 4665RL)

Recommended for: Static pressure, hot oiler applications. Designed specifically to handle the transfer of hot oil at 132°C continuous, 149°C intermittent to clear the paraffin around the casing to help start the flow of oil to the surface. Meets Flame Resistance Acceptance Designation "MSHA 2G-11C".

2,300 psi W.P. (Static)

Available Sizes: 1½" I.D.



For more detailed information please visit www.gatesaustralia.com.au/oilfieldhose.

For enquiries on other hose options or quotations on hose assemblies please contact Gates Technical Assistance via gatetech@gates.com or contact Gates Customer Service.

Oilfield Hose

Powerbraid® Plus (Slim Hole Rotary) (BLACK GOLD™ SLIM HOLE ROTARY (1500-5000))



1500-3000psi Working Pressure (4651RL, 3670H)

Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
2	50.8	2.63	66.8	3000	20.68	-	-	25.0	635	4.40	15*	3670-0655
2	50.8	2.63	66.8	3000	20.68	-	-	25.0	635	4.40	60*	3670-0660
2 1/2	63.5	3.38	85.9	2500	17.24	-	-	30.0	762	5.37	15*	3670-0656
3	76.2	3.90	99.1	2000	13.79	-	-	36.0	914	6.46	15*	3670-0657
4	101.6	5.06	128.5	1500	10.30	-	-	48.0	1220	10.02	15*	3670-0701

5000psi Working Pressure (4651ZL)

Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1	25.4	1.53	38.9	5000	34.47	-	-	12.0	305	2.22	60*	3670-0665
1 1/4	31.8	1.97	50.0	5000	34.47	-	-	16.5	419	3.98	60*	3670-0670
1 1/2	38.1	2.26	57.4	5000	34.47	-	-	20.0	508	4.80	60*	3670-0675
2	50.8	2.80	71.1	5000	34.47	-	-	25.0	635	7.04	15*	3670-0679
2	50.8	2.80	71.1	5000	34.47	-	-	25.0	635	7.04	60*	3670-0680

* Non-stock. Please contact Gates Customer Service for availability. Minimum order quantities may apply to some sizes.

Recommended for:

Rotary applications on workover 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. Hoses are flexible connectors in pressure lines used in conveying mud or air. For normal air or mud applications and where increased resistance to external abuse or pump pulsations is required.

Temperature: -40°C to +82°C continuous service.

Construction:

Tube: Type A (Neoprene). Black. For 1 1/2" I.D. and 2" I.D. 5,000 psi and 2" I.D. 3,000 psi.

Type C (Nitrile). Black. For 1' and 1 1/4" I.D. 5,000 psi, 2 1/2" I.D. 2,500 psi and 3" I.D. 2,000 psi and 4" I.D. 1500psi.

Reinforcement: High tensile steel wire. (Minimum 2.5:1 design factor).

Cover: Type A (Neoprene). Black with blue longitudinal stripe. All sizes perforated.

Packaging:

All sizes packaged 1 length in a carton.

Branding:

Continuous transfer label.
Example: Powerbraid® Plus Slim Hole Rotary 2 Inch 3000 PSI WP Flame Resistant, MSHA 2G-IC-11C MADE IN U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

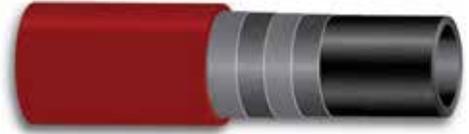
Standards:

Tube: RMA (Class B) Medium oil resistance.

Cover: Meets MSHA 30 CFR 18.65. Flame resistant.

Oilfield Hose

16 EFBOP Blow-Out Preventer (BLACK GOLD™ 5000 MEGASHIELD)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1/4	6.4	0.77	19.6	5000	34.47	-	-	4.0	102	0.55	134	3670-0760
3/8	9.5	0.93	23.5	5000	34.47	-	-	5.0	127	0.77	101	3670-0761
1/2	12.7	1.05	26.7	5000	34.47	-	-	7.0	178	0.94	67	3670-0762
3/4	19.1	1.38	35.1	5000	34.47	-	-	9.5	241	1.56	61	3670-0763
1	25.4	1.67	42.4	5000	34.47	-	-	12.0	305	2.63	61	3670-0764
1 1/4	31.8	2.11	53.6	5000	34.47	-	-	16.5	419	3.97	61	3670-0765
1 1/2	38.1	2.41	61.2	5000	34.47	-	-	20.0	508	5.36	61	3670-0766
2	50.8	2.96	75.2	5000	34.47	-	-	25.0	635	8.53	61	3670-0767

* Non-stock. Please contact Gates Customer Service for availability.

SAFETY, PERFORMANCE, AND DURABILITY

Every component of a BOP (blowout preventer) control system is critical to the safety of workers, equipment, and the environment. BOP systems are becoming more compact and powerful, and Gates offers a line of BOP hose.

Gates line of Black Gold® MegaShield™ 5000 BOP hose is rated for 5,000 psi (350 Bar) constant working pressure in all sizes, 1/4-inch through 2-inch (6.3mm – 51.0mm). This fire resistant hose is designed for the extreme, erratic pressures experienced in BOP control systems. It remains flexible through extremes of temperature for easier handling, and the abrasion-resistant cover stands up to rough treatment. Anti-static and durable, Gates BOP hose is built for a long, usable life in high performance BOP applications.

Temperature: -40°C to +121°C continuous service.

Construction:

Tube: Type C (Nitrile). Black.

Reinforcement: Multiple alternating layers of braided or spiralled, high-tensile steel wire.

Cover: Fibreglass loaded Chloroprene. Red with black stripe.

Packaging:

All lengths coiled in a carton.

Branding: Continuous transfer label.

Example: MEGASHIELD 5000 6BOP Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

API 16D Lloyd's 1000/499 fire test (5 minutes at 700°C).

Pressure Washer Hose

PowerClean™ – 1 Wire (Specification 4657, PB, PG, PY, KK, KB, KG, KY) (CLEAN MASTER™ PRESSURE WASH 2500/3000/3500/4000)



PowerClean 2500 (4657, 4657PB, 4657PG, 4657PY)

Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.	
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)		
1/2	12.7	0.80	20.3	2500	17.24	30.0	762	7.0	178	0.42	91*	4657-2408	Black
1/2	12.7	0.80	20.3	2500	17.24	30.0	762	7.0	178	0.42	91*	4657-2413	Blue
1/2	12.7	0.80	20.3	2500	17.24	30.0	762	7.0	178	0.42	91	4657-2414	Grey
1/2	12.7	0.80	20.3	2500	17.24	30.0	762	7.0	178	0.42	91*	4657-2415	Yellow

PowerClean 3000 (4657, 4657PB, 4657PG, 4657PY)

3/8	9.5	0.68	17.3	3000	20.68	30.0	762	5.0	127	0.34	91	4657-2402	Black
3/8	9.5	0.68	17.3	3000	20.68	30.0	762	5.0	127	0.34	91	4657-2404	Blue
3/8	9.5	0.68	17.3	3000	20.68	30.0	762	5.0	127	0.34	91*	4657-2416	Grey
3/8	9.5	0.68	17.3	3000	20.68	30.0	762	5.0	127	0.34	90*	4657-2417	Yellow

PowerClean 3500 (4657, 4657PB, 4657PG, 4657PY)

1/4	6.4	0.53	13.5	3500	24.13	30.0	762	4.0	102	0.22	91	4657-2400	Black
1/4	6.4	0.53	13.5	3500	24.13	30.0	762	4.0	102	0.22	91	4657-2419	Blue
1/4	6.4	0.53	13.5	3500	24.13	30.0	762	4.0	102	0.22	91*	4657-2420	Grey
1/4	6.4	0.53	13.5	3500	24.13	30.0	762	4.0	102	0.22	91*	4657-2421	Yellow

PowerClean 4000 (4657KK, 4657KB, 4657KG, 4657KY)

3/8	9.5	0.68	17.3	4000	27.58	30.0	762	5.0	127	0.34	91	4657-2225	Black
3/8	9.5	0.68	17.3	4000	27.58	30.0	762	5.0	127	0.34	91*	4657-2422	Blue
3/8	9.5	0.68	17.3	4000	27.58	30.0	762	5.0	127	0.34	91*	4657-2423	Grey
3/8	9.5	0.68	17.3	4000	27.58	30.0	762	5.0	127	0.34	91*	4657-2424	Yellow

* Non-stock. Please contact Gates Customer Service for availability. Minimum order quantities may apply to some sizes.

Recommended for:

When you have to keep it clean, nothing does the job better than Gates PowerClean™ high pressure cleaning hose for water cleanup applications at food handling and processing operations, meat and poultry plants, creameries, paper mills, and other facilities. Depending on your need, our durable, reliable hose line handles pressures up to 5000 psi, temperatures up to 121°C, and can be used with hot or cold water, steam injected water, and mild detergents. Use bend restrictors to extend service life.

NOTE: Not recommended for steam service.

Temperature: -40°C to +121°C normal service.

Construction:

Tube: Type C (Nitrile). Black. Specially compounded to handle high pressure water service.

Reinforcement: High tensile steel one-wire braid.

Cover: Type C₂ (Modified Nitrile). Black, Blue, Grey, Yellow. Specially compounded to handle pressure washer environment. (Blue, Grey and Yellow covers are non-marking).

Couplings: Gates MegaCrimp®.

Packaging:

1/4" through 1/2": Packaged in 91m reels. Any number of pieces. All pieces in 15m increments. Minimum length 15m.

Branding: Continuous ink brand.

Example: 3/8 Inch PowerClean™ 3000 Max WP 3000 PSI Not For Steam Service Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Pressure Washer Hose

PowerClean™ – 2 Wire (Specification 4657F, XB, XG, XY) (CLEAN MASTER™ PRESSURE WASH 4000/5000/6000)



PowerClean 4000 (4657F, 4657XB, 4657XG, 4657XY)

Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Part No.	
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)		
1/2	12.7	0.86	21.8	4000	27.58	30.0	762	7.0	178	0.63	91	4657-2426	Black
1/2	12.7	0.86	21.8	4000	27.58	30.0	762	7.0	178	0.63	91*	4657-2409	Blue
1/2	12.7	0.86	21.8	4000	27.58	30.0	762	7.0	178	0.63	91*	4657-2427	Grey
1/2	12.7	0.86	21.8	4000	27.58	30.0	762	7.0	178	0.63	91*	4657-2428	Yellow

PowerClean 5000 (4657F, 4657XB, 4657XG, 4657XY)

3/8	9.5	0.74	18.8	5000	34.47	30.0	762	5.0	127	0.52	91	4657-2407	Black
3/8	9.5	0.74	18.8	5000	34.47	30.0	762	5.0	127	0.52	91	4657-2429	Blue
3/8	9.5	0.74	18.8	5000	34.47	30.0	762	5.0	127	0.52	91*	4657-2430	Grey
3/8	9.5	0.74	18.8	5000	34.47	30.0	762	5.0	127	0.52	91*	4657-2431	Yellow

PowerClean 6000 (4657F)

1/4	6.4	0.59	15.0	6000	41.37	30.0	762	4.0	102	0.37	91*	4657-2410	Black
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* Non-stock. Please contact Gates Customer Service for availability. Minimum order quantities may apply to some sizes.

Recommended for:

When you have to keep it clean, nothing does the job better than Gates PowerClean™ high pressure cleaning hose for water cleanup applications at food handling and processing operations, meat and poultry plants, creameries, paper mills, and other facilities. Depending on your need, our durable, reliable hose line handles pressures up to 6000 psi, temperatures up to 121°C, and can be used with hot or cold water, steam injected water, and mild detergents. Use bend restrictors to extend service life.

NOTE: Not recommended for steam service.

Temperature: -40°C to +121°C normal service.

Construction:

Tube: Type C (Nitrile). Black. Specially compounded to handle high pressure water service.

Reinforcement: High tensile steel two-wire braid.

Cover: Type C₂ (Modified Nitrile). Black, Blue, Grey, Yellow. Specially compounded to handle pressure washer environment. (Blue, Grey and Yellow covers are non-marking).

Couplings: Gates MegaCrimp®.

Packaging:

1/4" through 1/2": Packaged in 91m reels. Any number of pieces. All pieces in 15m increments. Minimum length 15m.

Branding: Continuous ink brand.

Example:  3/8 Inch PowerClean™ 5000 Max WP 5000 PSI Not For Steam Service Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Pressure Washer Hose

113S Creamery/Paper Mill Washdown (CLEAN MASTER™ WASHDOWN 150-200)



Without Nozzle (3213B)

Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1/2	12.7	0.91	23.1	200	1.38	25.0	635	5.0	127	0.48	213	3213-0401
3/4	19.1	1.25	31.8	200	1.38	15.0	381	6.0	152	0.88	106	3213-0501
1	25.4	1.52	38.6	200	1.38	15.0	381	8.0	203	1.01	15*	3213-0416

With Nozzle (3325T)

3/4	19.1	1.25	31.8	150	1.03	25.0	635	6.0	152	12.47	15*	3213-0543
1	25.4	1.50	38.1	150	1.03	15.0	381	8.0	203	15.20	15	3213-0544
1 1/4	31.8	1.75	44.5	150	1.03	15.0	381	10.0	254	17.92	15*	3213-0545

* Non-stock. Please contact Gates Customer Service for availability.

Recommended for:

Cold and hot water up to 100°C where steam is injected into the water. Used for paper mill, food handling or processing plant washdown service requiring hose with a white **non-marking** cover.

CAUTION: NOT RECOMMENDED FOR USE WITH PURE STEAM.

NOTE: Nozzle is moulded into the end of the hose and tapers down to 1/2" inside diameter over 600mm.

Temperature: -40°C to +100°C continuous service. -29°C to +82°C continuous service. For nozzle only.

Construction:

Tube: Type P (EPDM). Black.

Type D (SBR). Black. For nozzle only.

Reinforcement: Synthetic, high tensile textile cord. Braided, high tensile synthetic textile cord. For nozzle only.

Cover: Type P (EPDM). White. All sizes are perforated on plain end hose only.

Type D (Natural Rubber). Gray with green stripe. For nozzle only.

Couplings: Gates GLX™.

Packaging:

1/2": Packaged in 182m to 243m reels. Maximum 4 pieces. One length 7m to 15m. Maximum of 2 lengths under 30m.

3/4" and 1": Packaged in 91m to 121m reels. Maximum 3 pieces. One length 7m to 15m. Maximum of 2 lengths under 30m.

15m lengths (with nozzle). Packaged each length coiled and wrapped in polyethylene.

Branding:

Continuous ink print label.

Example: Washdown 3/4 Inch (19.1mm) 200 PSI (1.38Mpa) WP Made In U.S.A.

Continuous transfer label.

Example: Washdown 3/4 Inch (19.1mm) 150 PSI (1.03Mpa) WP Made In Mexico.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Pressure Washer Hose

113W Washdown (Specification 33213W) (CLEAN MASTER™ FDA WASHDOWN 200)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1/2	12.7	0.91	23.0	200	1.37	15.0	381	3.0	76.2	0.44	100	3213-0601
3/4	19.0	1.25	32.0	200	1.37	15.0	381	4.5	114.0	0.82	100	3213-0602
1	25.4	1.53	39.0	200	1.37	15.0	381	6.0	152.4	1.10	100*	3213-0603

* Non-stock. Please contact Gates Customer Service for availability.

Recommended for:

Hot water up to 100°C where steam is injected into the water for food handling or processing plant washdown service hose with a white cover and tube. Especially useful for dairy applications.

CAUTION: NOT RECOMMENDED FOR USE WITH PURE STEAM.

113W is manufactured with a Design Ratio of 3:1.

Temperature: -20°C to +100°C continuous service.

Construction:

Tube: Type P (EPDM). White. FDA.

Reinforcement: High tensile synthetic textile cord.

Cover: Type P (EPDM). White. All sizes are perforated.

Packaging:

All sizes 100m per coil wrapped in PVC film.

Branding: Continuous ink print label.

Example:  113W Washdown 1 Inch (25.4mm) 200 PSI (1.38Mpa) WP

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards: FDA Quality hose.

Steam Hose

232MB Steam Queen® (Specification 3602EL) (PLANT MASTER™ PLUS STEAM 250)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
3/8	9.5	0.80	20.3	250	1.72	30.0	762	4.0	102	0.46	15*	3602-1051
3/8	9.5	0.80	20.3	250	1.72	30.0	762	4.0	102	0.46	76*	3602-1061
1/2	12.7	1.02	25.9	250	1.72	25.0	635	7.0	178	0.73	15	3602-1052
1/2	12.7	1.02	25.9	250	1.72	25.0	635	7.0	178	0.73	76*	3602-1062
3/4	19.1	1.27	32.3	250	1.72	20.0	508	9.0	229	0.95	15	3602-1055
3/4	19.1	1.27	32.3	250	1.72	20.0	508	9.0	229	0.95	76	3602-1065
1	25.4	1.52	38.6	250	1.72	20.0	508	11.0	279	1.18	15	3602-1057
1 1/2	38.1	2.18	55.4	250	1.72	10.0	254	20.0	508	1.84	15	3602-1059
2	50.8	2.66	67.6	250	1.72	10.0	254	25.0	635	3.34	15*	3602-1060

* Non-stock. Please contact Gates Customer Service for availability.

Recommended for:

Steam Queen® features a specially compounded, perforated synthetic rubber cover intended for use where the hose is exposed to oils, grease, fats, and similar materials.

It will handle all types of steam - saturated and superheated - up to 250 psi +232°C.

WARNING: DO NOT ALTERNATE USE BETWEEN STEAM AND WATER.

232MB is manufactured with a Design Ratio of 10:1.

Temperature: -40°C to +232°C continuous service.

Construction:

Tube: Type P₂ (EPDM). Black.

Reinforcement: Braided, high tensile steel wire.

3/8" & 1/2": one-braid.

3/4" thru 2": two-braid.

Cover: Type B₁ (special compound designed to withstand heat and oil). Red. All sizes are perforated.

Packaging:

15m lengths: Coiled in a carton.

3/8" through 3/4": Packaged in 60m to 91m reels.

Maximum of 3 pieces. Minimum length 7m. One length under 30m.

Branding: Continuous moulded brand.

Example:  232MB Steam Queen® 3/4 Inch 2 Wire Braid 250 PSI WP at 450°F Degrees F Made In U.S.A. Caution: Tighten Clamps Before Using.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Standards:

Cover: RMA (Class C) Limited oil resistance.

Water Hose

Shark® (Specification 4686AR/4686DC) (WATER MASTER™ (100-150) SD AR)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1	25.4	1.45	36.8	150	1.03	25.0	635	5.0	127	0.79	30*	4686-0701
1 1/4	31.8	1.71	43.4	150	1.03	25.0	635	6.0	152	1.02	30*	4686-0702
1 1/2	38.1	1.96	49.8	150	1.03	25.0	635	8.0	203	1.18	30*	4686-0703
2	50.8	2.46	62.5	150	1.03	25.0	635	10.0	254	1.51	30*	4686-0704
2 1/2	63.5	3.02	76.7	150	1.03	25.0	635	12.0	305	2.17	30*	4686-0705
3	76.2	3.58	90.9	150	1.03	25.0	635	15.0	381	2.83	30*	4686-0706
4	101.6	4.58	116.3	150	1.03	25.0	635	20.0	508	3.70	30*	4686-0707
5	127.0	5.60	142.2	100	0.69	25.0	635	25.0	635	5.40	30*	4686-0708
6	152.4	6.65	168.9	100	0.69	25.0	635	30.0	762	7.10	30*	4686-0709

* Non-stock. Please contact Gates Customer Service for availability.

Recommended for:

Shark® is a premium quality suction/discharge hose designed to convey water as well as detergents, phosphate ester hydraulic fluids (not oil based), and dilute solutions of acids, alkalies, and glycols.

It will also handle a variety of herbicides including dilute solutions of Lasso*, Lasso II*, and Freedom*.

Temperature: -40°C to +82° continuous service.

Construction:

Tube: Type P (EPDM). Black.

Reinforcement: Synthetic, high tensile textile with steel wire helix.

Cover: All Type D (SBR). Black with green spiral stripe.

Packaging:

All lengths coiled and wrapped in polyethylene.

Branding: Continuous transfer label.

Example:  Shark® Water Suction/Discharge 150 PSI (1.03MPa) WP Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

*Registered trademarks of Monsanto.

Water Hose

Barracuda® (Specification 4686AT) (WATER MASTER™ (100-150) SD)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1	25.4	1.33	33.8	150	1.03	30.0	762	5.0	127	0.59	30*	4686-0199
1 1/4	31.8	1.61	40.9	150	1.03	30.0	762	5.0	127	0.84	30*	4686-0203
1 1/2	38.1	1.86	47.2	150	1.03	30.0	762	6.0	152	0.75	30*	4686-0204
2	50.8	2.36	59.9	150	1.03	30.0	762	8.0	203	1.15	30*	4686-0200
2 1/2	63.5	2.96	75.2	150	1.03	30.0	762	10.0	254	1.57	30*	4686-0205
3	76.2	3.54	89.9	150	1.03	30.0	762	14.0	356	2.59	30*	4686-0201
4	101.6	4.54	115.3	150	1.03	30.0	762	18.0	457	3.50	30*	4686-0202
6	152.0	6.68	170.0	100	0.69	30.0	762	28.0	711	6.14	7*	4686-0206
8	203.2	9.00	228.6	100	0.69	30.0	762	40.0	1016	12.95	7*	4686-0209
10	254.0	11.27	286.3	100	0.69	30.0	762	50.0	1270	23.52	7*	4686-0210
12	304.8	13.27	337.1	100	0.69	30.0	762	60.0	1524	26.25	7*	4686-0211

* Non-stock. Please contact Gates Customer Service for availability.

Recommended for:

Barracuda® is an economical water suction/discharge hose designed for light to medium duty agricultural, construction, and industrial applications.

In addition to water, the EPDM tube will handle a variety of liquids including dilute solutions of Lasso*, Lasso II*, and Freedom* herbicides.

Recommended for sanitation lines in marine applications.

Temperature: -40°C to +82°C continuous service.
For 1" through 6" sizes.
-36°C to +93°C continuous service.
For 8" through 12" sizes.

Construction:

Tube: Type P (EPDM). Black.

Reinforcement: Synthetic, high tensile textile with steel wire helix.

Cover: Type P (EPDM). Black with green spiral stripe.

Packaging:

1" through 6": Packaged with each length coiled and wrapped in polyethylene.

8" through 12": Packaged with each length in nylon woven fabric.

Branding: Continuous transfer label.

Example:  Barracuda® Water Suction/Discharge 150 PSI (1.03MPa) WP Made In U.S.A.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

*Registered trademarks of Monsanto.

Water Hose

Master-Flex® 500 (Specification 7744) (WATER MASTER-FLEX™ (45-75) D)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Gates Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1 1/2	38.1	1.67	42.4	75	0.52	-	-	-	-	0.26	91*	7744-1001
2	50.8	2.16	54.9	65	0.45	-	-	-	-	0.33	91*	7744-1002
2 1/2	63.5	2.55	64.8	60	0.41	-	-	-	-	0.43	91*	7744-1003
3	76.2	3.17	80.5	60	0.41	-	-	-	-	0.59	91*	7744-1004
4	101.6	4.20	106.7	60	0.41	-	-	-	-	0.79	91*	7744-1005
6	152.4	6.20	157.5	45	0.31	-	-	-	-	1.31	91*	7744-1006
8	203.2	8.16	207.3	45	0.31	-	-	-	-	1.90	91*	7744-1007

* Non-stock. Please contact Gates Customer Service for availability.

Recommended for:

Master-Flex® 500 is ideal for general low-pressure, lay-flat water discharge service. It is an excellent choice for job sites in construction, irrigated fields, and areas where a lightweight, highly flexible hose is required.

Temperature: -4°C to +49°C continuous service.

Construction:

Body: Type G (PVC). Blue with yellow identification

Reinforcement: Synthetic, high tensile textile.

Cover: Type G (PVC). Blue. Smooth.

Packaging:

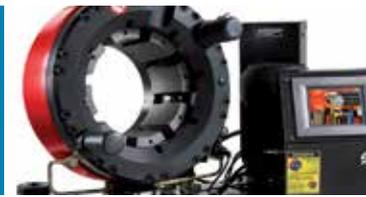
91m length coiled in polyethylene and banded, one length.

Branding: Ink stamp every 1.5m with I.D. only.

Note: New naming system to be implemented as a running change.

For your safety: Use permanent fittings only.

Crimper Gates GC96™ Industrial Hose Crimper



The GC96™ crimper is capable of crimping up to 6 inch ID industrial hose. The Large crimper head allows industrial hose assemblies to be made with a variety of terminations using crimpable ferrules and sleeves. The GC96™ crimper has additional versatility since in conjunction with optional spacer dies and GC32–XD™ dies; it can make Gates hydraulic hose assemblies also.

Features:

- Touch pad to easily load Gates eCrimp settings and activate the crimper.
- 340 tonne force that allows crimping of a wide variety of couplings.
- 2 speed die closure and rapid retract permit fast assembly fabrication.
- Three-phase inverter allows crimper to be used all over the world.
- Full range of die sets that enable production of a wide range of hose assemblies.
- Complete line of options permit customising the crimper to meet your needs.

Capability:

- 1/4" – 6" Industrial Hose*
- 1/4" – 2" Hydraulic Hose**

*Crimps 6" industrial hose up to 100 psi WP.

**Not recommended for crimping 2", 6-spiral hydraulic hose.

Motor: Five Horsepower

Pump: Two-Stage

Power Source:

208-264 Volts, 45-65 HZ, 1 or 3 Phase and 20 Amps Electrical inverter for world-wide use

Crimper dimensions:

790mm H x 810mm W x 406mm D

Crimper	Part No.	Weight (kg)
GC96 Crimper – Includes Starter Kit, Foot Pedal, 96-610 Die Set and Lifting Rope	7480-9001	295

Dies and Accessories	Part No.	Weight (kg)
Standard Die Kit includes GC32 QCT and GC96 Spacer Dies	7482-9104	16.4
GC96 Spacer Dies with box	7482-9600	14.1
Calibration Ring	7482-9200	0.9
Die Set — 96-610 with box	7482-9610	21.4
Die Set — 96-611 with box	7482-9611	18.6
Die Set — 96-612 with box	7482-9612	18.2
Die Set — 96-613 with box	7482-9613	20.9
Die Set — 96-614 with box	7482-9614	14.1

Note: For information on other equipment please contact Gates Customer Service.

For crimp data and specifications please visit www.gates.com/ecrimp



Ideal™ Hose Clamps



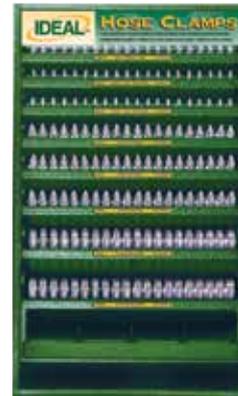
Ideal™ manufactures a broad line of standard worm drive, t-bolts, and specialty hose clamps and come in a wide variety of constructions, from plated carbon steel to 316 stainless steel which are designed to satisfy a wide range of fastening applications.

There is a large range of Ideal™ Hose Clamp merchandiser's available:

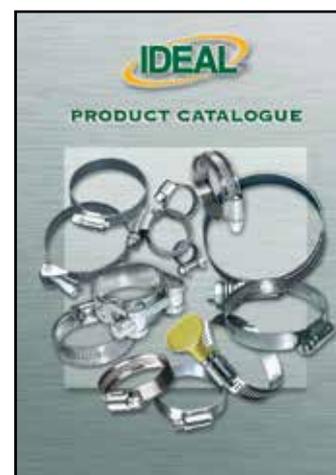
- Hose Clamp Merchandiser 57 SERIES
- Hose Clamp Merchandiser 67 SERIES
- T-Bolt Clamp Merchandiser 32 SERIES
- T-Bolt Clamp Merchandiser 33 SERIES

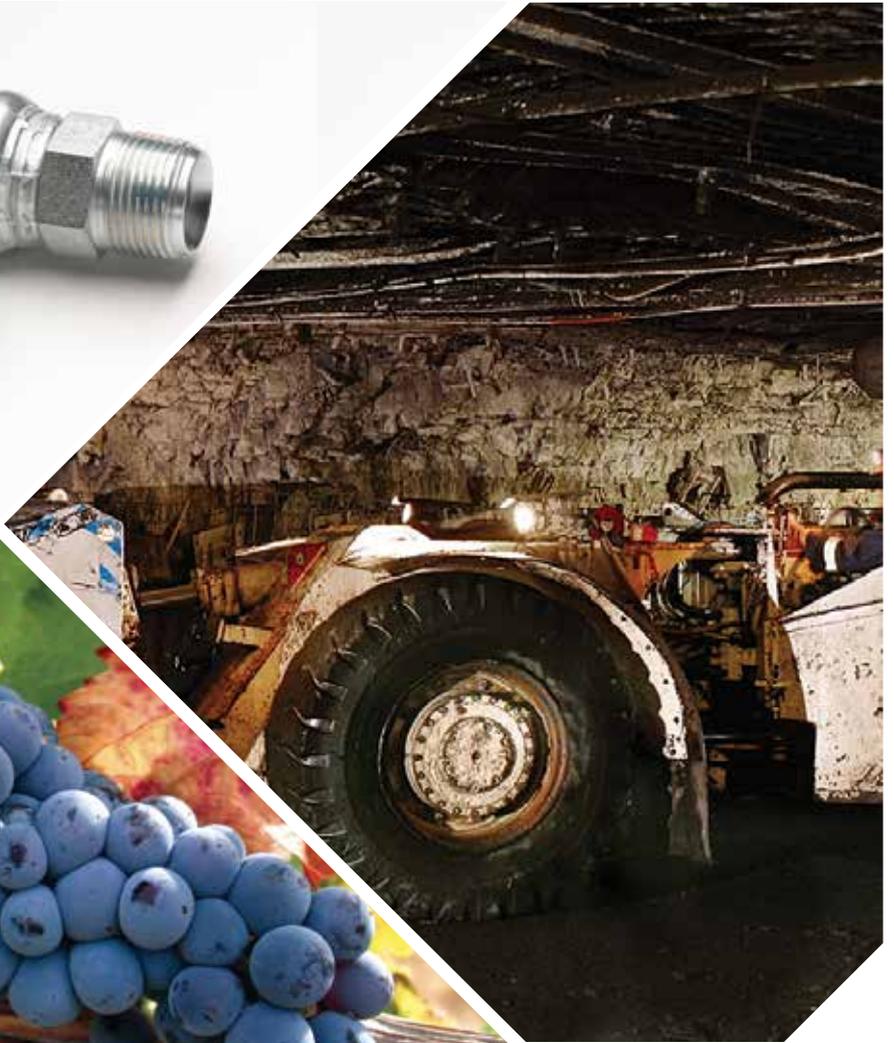
The product range consists of:

- Small Diameter Clamps
- 12mm Band Clamps
- Lined Clamps
- Non-Perforated Band Clamps
- Powergrip SB Clamps
- T-Bolt Clamps
- V-Band Clamps
- High Performance Worm Drive Clamps
- Flex-Gear Clamps
- Quick Release Clamps
- Two Part Clamps



Please contact your nearest Gates distributor to request a copy of the Ideal Hose Clamp catalogue (P/N# 496-2091)





POWERING PROGRESS™

496-3000

2015

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