

OILFIELD

HOSE, COUPLINGS + EQUIPMENT



2017 PRODUCTS CATALOG



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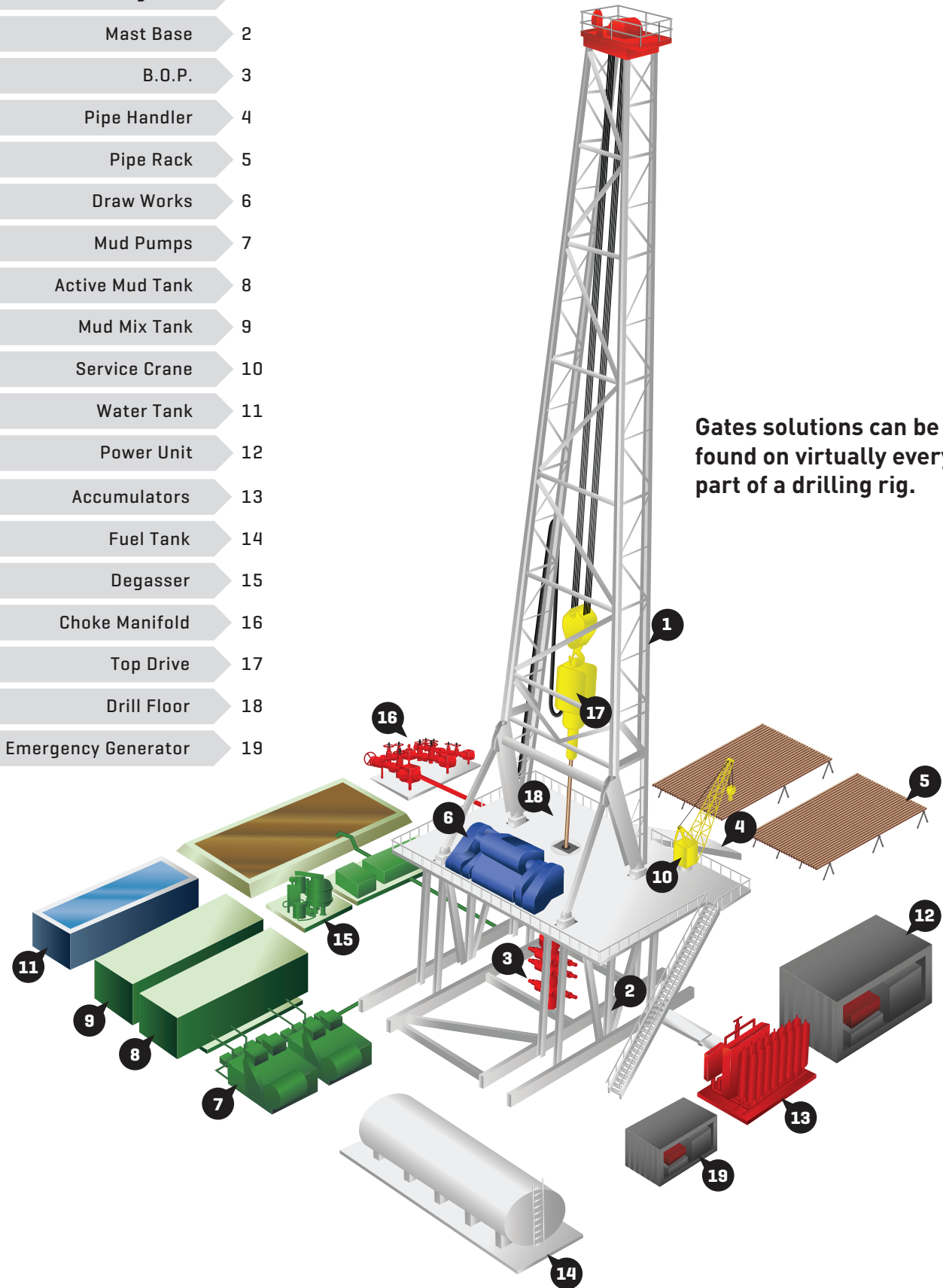


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Oilfield Applications

- Drilling Mast 1
- Mast Base 2
- B.O.P. 3
- Pipe Handler 4
- Pipe Rack 5
- Draw Works 6
- Mud Pumps 7
- Active Mud Tank 8
- Mud Mix Tank 9
- Service Crane 10
- Water Tank 11
- Power Unit 12
- Accumulators 13
- Fuel Tank 14
- Degasser 15
- Choke Manifold 16
- Top Drive 17
- Drill Floor 18
- Emergency Generator 19

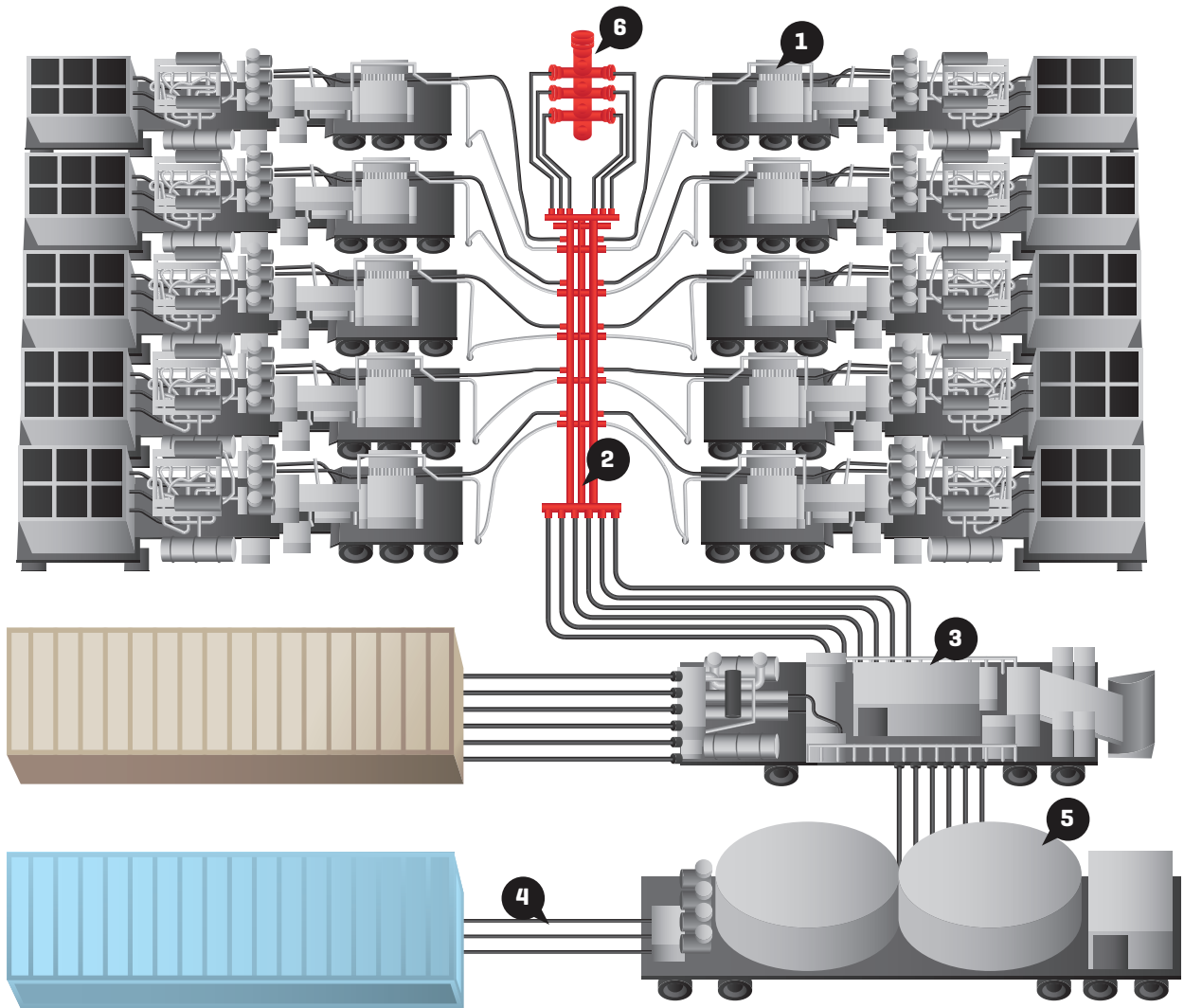


Gates solutions can be found on virtually every part of a drilling rig.

Well Completion Applications

FRAC FLEET

Hydraulic fracturing fleets can consist of a variety of oilfield service trucks that feature applications in which Gates can be a solutions provider.



- 1 PUMP TRUCKS
- 2 MANIFOLD
- 3 BLENDER TRUCKS
- 4 WATER TRANSFER SYSTEM
- 5 HYDRATION UNIT
- 6 WELLHEAD

Engineering & Services

Gates delivers premium Engineering & Services to decrease downtime, increase safety for the oil & gas market, and foster risk management. It only takes one hose-related incident on a rig to shut down your an entire operation. Gates E&S is dedicated to providing world-class products and support services to minimize downtime.

Gates Hose Management System (GHMS)

Hose management is key in maximizing production. The Gates Hose Management System is a comprehensive Lifecycle Management System for critical hose assemblies.

Contact your nearest Gates E&S location to help eliminate expensive downtime and prevent dangerous, environmentally devastating and expensive accidents.



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POTENTIAL CONSEQUENCES OF HOSE FAILURES

Beyond disastrous results, failure of a choke & kill hose causes:



Downtime and loss of production



Endangerment of workers



Environmental spills and clean-up costs



Equipment replacement costs

Safe Hydraulics



WHY PREVENTIVE MAINTENANCE?

There are several valid reasons to begin a preventive maintenance program. Costly emergency repairs, production downtime and worker safety are just a few. The main objective of a preventive maintenance program is to identify component weaknesses before failure and loss of production. Some believe that PM actually should mean “predictive maintenance” rather than “preventive maintenance.”

Preventive maintenance is especially important with hydraulic products. The high pressures and temperatures associated with hydraulics make hose and fitting maintenance, as well as selection, critical. If done correctly, the risk of injury and/or excessive, costly downtime decreases significantly. In addition, there is a growing awareness regarding costs associated with cleaning up a hydraulic spill (EPA). Combining top-quality Gates products with a regular preventive maintenance program will keep your equipment operating at maximum efficiency.

BENEFITS

1. **Safety hazards** are minimized.
2. **Efficient production** because equipment is in good operating condition at all times.
3. **Better use of in-shop maintenance personnel** since there's less emergency work and more scheduled work.
4. **Improved control** of spare parts inventory, and reduced parts usage.
5. **Reduction of equipment downtime** through scheduled inspections.
6. **Increased life expectancy** of equipment.
7. **Fewer capital outlays** for purchasing new equipment prematurely.
8. **Reduced repair costs** due to fewer breakdowns.
9. **Prevention of equipment deterioration** from causes other than obsolescence.



For more information on Gates Safe Hydraulics™ program visit gates.com/safehydraulics

Safety Connections

Industrial hose applications become more demanding every day. New rubber compounds, higher working pressures and temperatures, stricter environmental and safety regulations – all make hose and coupling selection a challenge. The traditional industry practice of mixing and matching hoses and fittings from different manufacturers carries greater risk than ever. Poor quality or incorrectly fabricated hose assemblies cause equipment damage, lost productivity, personal injury, or worse.



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

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

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

TESTING AND CERTIFICATION

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

WE'VE GOT YOU COVERED

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

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

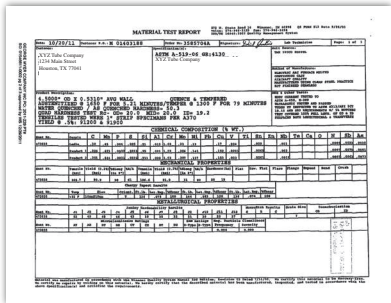


For more information on Gates industrial hose systems visit gates.com/ih

Certifications and Standards



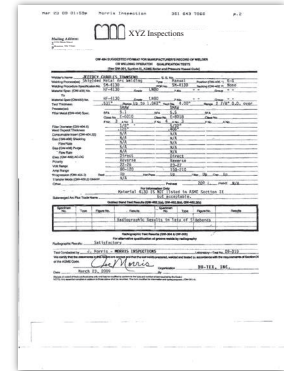
MTR Data Book



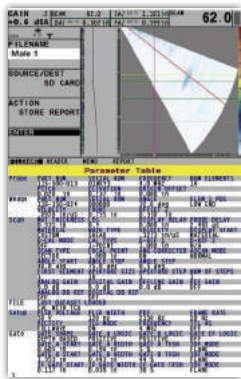
Couplings (Fittings)



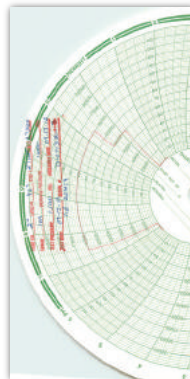
Unions



Welding Specifications



NDE Results



Test Chart



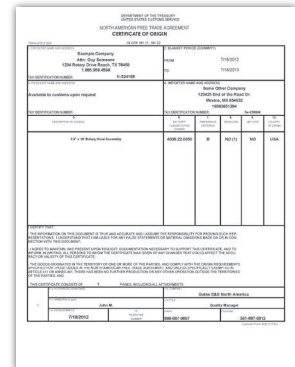
Test Certificate



Images



Packing List



NAFTA Certificate of Origin

Efficiency. Engineered

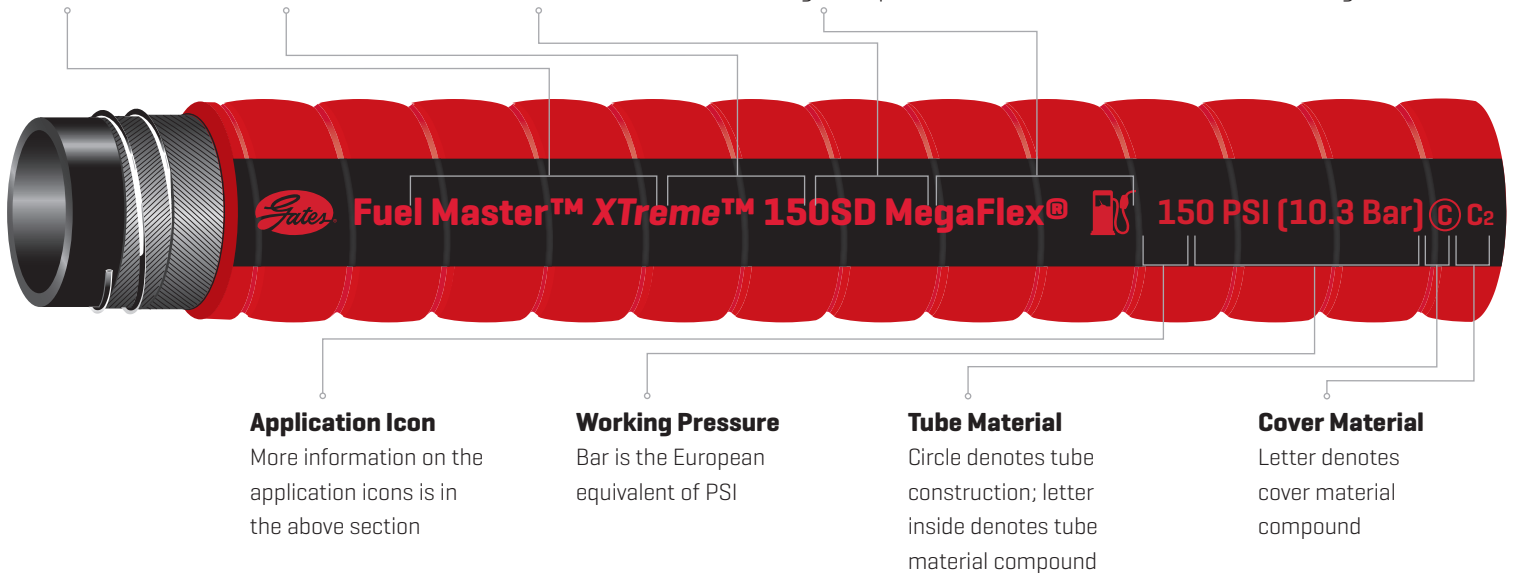
MORE THAN JUST NAMES

Most industrial hose naming systems spawn confusion, so relating them to products and applications becomes a difficult, time consuming chore. Plus, the risk of choosing the wrong hose for the job may compromise safety, performance, and the customer's trust.

We're making our industrial hose naming system more efficient and user-friendly. This running change uses descriptive and intuitive names.

GATES NEW HOSE IDENTIFICATION SYSTEM

Brand Name	Performance Level	Pressure Rating	Premium Performance Feature		
Correlates to the industry or application	<ul style="list-style-type: none"> > Standard > Plus > XTreme™ 	Working pressure [psi] <ul style="list-style-type: none"> > D Discharge > SD Suction Discharge 	<ul style="list-style-type: none"> > AR Abrasion Resistant > CR Crush Resistant > FR Flame Resistant > HT High Temperature 	<ul style="list-style-type: none"> > LT Low Temperature > NC Non Conductive > SF Silicone Free 	<ul style="list-style-type: none"> > Braid > Clear > Barricade™ > MegaFlex™



IDENTIFICATION AT A GLANCE

APPLICATION	ICON	APPLICATION	ICON	APPLICATION	ICON
Agriculture		Food + Beverage		Petroleum	
Air Breathing		Marine		Pressure Wash + Washdown	
Air Duct		Material Handling		Steam	
Air + Multi-Purpose		Mining		Water	
Chemical		Oilfield			

Black Gold® Products

Rotary Vibrator 7500 Grade E



Hose I.D.		Hose O.D.		Max. W.P.		Min. Bend Radius		Wt. Per Ft. (hose)		Max. Hose Length
(In.)	(mm)	(In.)	(mm)	(psi)	(Bar)	(In.)	(mm)	(lb)	(Kg)	(ft)
2 1/2	64	5.16	131	7,500	517	48	914	20.2	9.2	90
3	76	5.66	144	7,500	517	48	1219	22.6	10.3	90
3 1/2	89	6.04	153	7,500	517	54	1372	24.1	10.9	90
4	102	6.48	165	7,500	517	60	1524	25.8	11.7	90

RECOMMENDED FOR: Flexible connection between standpipe and top drive/swivel or between pump and standpipe for pumping mud at extra high pressure in oil drilling and exploration work. Meets the severe demands of today's drilling methods including directional drilling, pressure pulses and elevated temperatures. The 3/16" thick tube is designed to handle abrasive, corrosive and oil based drilling muds. The UltraBration™ cover is designed to handle external damage from abrasion, corrosion, gouges, oil and weather.

CAUTION: Field welding of couplings is not recommended.

TEMPERATURE: -4°F to +180°F [-20°C to +82°C] continuous service [2 1/2" ID through 4" ID] rated FSL 1.

CONSTRUCTION:

- Tube:** Type C3 [Modified Nitrile]. Black.
- Reinforcement:** Multiple layers of textile fabric and steel cable.
- Cover:** Type C4 [Modified Nitrile]. Black with gold stripe.
- Design Factor:**
 - Working Pressure: 7,500 psi
 - Test Pressure: 11,250 psi
 - Burst Pressure: 18,750 psi

COUPLINGS: Swaged couplings. Contact Gates E&S or a Gates Black Gold® distributor for a full range of fitting options such as hammer unions, flanges, hubs, etc.

PACKAGING: Finished assemblies packaged in a heavy-duty corrugated box or wooden crate.

OPTIONS: Accessories such as safety clamps, hose lift eyes and stainless steel armor are available upon request. Test certificates are shipped with every order. Coupling material traceability, letters of conformance and 3rd party witness tests are available for an additional fee.

STANDARDS: API [American Petroleum Institute] Spec 7K [6th Edition], ISO 14693. ABS [American Bureau of Shipping] and DNV-GL [Det Norske Veritas] type approvals. Made in the U.S.A.

Black Gold® Products

Rotary Vibrator 7500 Sour Service



Hose I.D.		Hose O.D.		Max. W.P.		Min. Bend Radius		Wt. Per Ft. (hose)		Max. Hose Length
(In.)	(mm)	(In.)	(mm)	(psi)	(Bar)	(In.)	(mm)	(lb)	(Kg)	(ft)
2 1/2	64	5.14	131	7,500	517	48	1219	20.6	9.3	90
3	76	5.64	143	7,500	517	48	1219	23	10.4	90
3 1/2	89	6.05	154	7,500	517	54	1372	24.6	11.2	90
4	102	6.47	164	7,500	517	60	1524	26.4	12.0	90

RECOMMENDED FOR: Flexible connection between standpipe and top drive/swivel or between pump and standpipe for pumping mud at extra high pressure in oil drilling and exploration work. Meets the severe demands of today's drilling methods including directional drilling, pressure pulses and elevated temperatures. The tube is designed to handle abrasive, corrosive and oil based drilling muds. The UltraBration™ cover is designed to handle external damage from abrasion, corrosion, gouges, oil and weather.

CAUTION: Hoses are manufactured to handle up to 20% hydrogen sulfide H₂S for 1 hour at 200°F (93°C) at rated working pressure. Gates recommends factory welded couplings. Field welding of couplings is not recommended.

TEMPERATURE: -4°F to +200°F (-20°C to +93°C) continuous service.

CONSTRUCTION:

- Tube:** Type V [Fluoroelastomer]. Black.
- Reinforcement:** Multiple layers of textile fabric and steel cable.
- Cover:** Type C4 [Modified Nitrile]. Black with gold stripe.
- Design Factor:** Working Pressure: 7,500 psi
Test Pressure: 15,000 psi
Burst Pressure: 18,750 psi

COUPLINGS: Swaged couplings. Meets NACE [National Association of Corrosion Engineers] MR0175. Contact Gates E&S or a Gates Black Gold® distributor for a full range of fitting options such as hammer unions, flanges, hubs, etc.

PACKAGING: Finished assemblies packaged in a heavy-duty corrugated box or wooden crate.

OPTIONS: Accessories such as safety clamps, hose lift eyes and stainless steel armor are available upon request. Test certificates are shipped with every order. Coupling material traceability, letters of conformance, 3rd party witness tests and NACE certificates are available for an additional fee.

STANDARDS: NACE MR0175. Made in the U.S.A.

Black Gold® Products

Rotary Vibrator 5000 Grade D



Hose I.D.		Hose O.D.		Max. W.P.		Min. Bend Radius		Wt. Per Ft. (hose)		Max. Hose Length
(In.)	(mm)	(In.)	(mm)	(psi)	(Bar)	(In.)	(mm)	(lb)	(Kg)	(ft)
2 1/2	64	4.14	105	5,000	345	36	914	9.8	4.4	90
3	76	4.61	117	5,000	345	48	1219	10.8	4.9	90
3 1/2	89	5.25	133	5,000	345	54	1372	12.8	5.8	90
4	102	5.61	142	5,000	345	54	1372	13.4	6.1	90
5	127	7.41	188	5,000	345	60	1524	30.8	14.0	90

RECOMMENDED FOR: Flexible connection between standpipe and top drive/swivel or between pump and standpipe for pumping mud at extra high pressure in oil drilling and exploration work. Meets the severe demands of today's drilling methods including directional drilling, pressure pulses and elevated temperatures. The 3/16" thick tube is designed to handle abrasive, corrosive and oil based drilling muds. The UltraBration™ cover is designed to handle external damage from abrasion, corrosion, gouges, oil and weather.

TEMPERATURE: -4°F to +180°F [-20°C to +82°C] continuous service.
For 2.5 to 4" ID rated FSL 1.
-4°F to +212°F [-20°C to +100°C] continuous service.
For the 5" ID rated FSL 2.

CONSTRUCTION:

- Tube:** Type C3 [Modified Nitrile]. Black.
- Reinforcement:** Multiple layers of textile fabric and steel cable.
- Cover:** Type C4 [Modified Nitrile]. Black with gold stripe.
- Design Factor:** Working Pressure: 5,000 psi
Test Pressure: 7,500 psi
Burst Pressure: 12,500 psi

COUPLINGS: Swaged couplings. Contact Gates E&S or a Gates Black Gold® distributor for a full range of fitting options such as hammer unions, flanges, hubs, etc.

PACKAGING: Finished assemblies packaged in a heavy-duty corrugated box or wooden crate.

OPTIONS: Accessories such as safety clamps, hose lift eyes and stainless steel armor are available upon request. Test certificates are shipped with every order. Coupling material traceability, letters of conformance and 3rd party witness tests are available for an additional fee.

STANDARDS: API Spec 7K [6th Edition]. ISO 14693. ABS and DNV-GL type approvals. Made in the U.S.A.

Black Gold® Products

Rotary Vibrator 5000 Sour Service



Hose I.D.		Hose O.D.		Max. W.P.		Min. Bend Radius		Wt. Per Ft. (hose)		Max. Hose Length
(In.)	(mm)	(In.)	(mm)	(psi)	(Bar)	(In.)	(mm)	(lb)	(Kg)	(ft)
2 1/2	64	4.15	105	5,000	345	36	914	10.1	4.6	90
3	76	4.61	117	5,000	345	48	1219	11.1	5.0	90
3 1/2	89	5.25	133	5,000	345	54	1372	13.2	6.0	90
4	102	5.58	142	5,000	345	54	1372	13.9	6.3	90

RECOMMENDED FOR: Flexible connection between standpipe and top drive/swivel or between pump and standpipe for pumping mud at extra high pressure in oil drilling and exploration work. Meets the severe demands of today's drilling methods including directional drilling, pressure pulses and elevated temperatures. The tube is designed to handle abrasive, corrosive and oil based drilling muds. The UltraBration™ cover is designed to handle external damage from abrasion, corrosion, gouges, oil and weather.

CAUTION: Hoses are manufactured to handle up to 20% hydrogen sulfide H₂S for 1 hour at 200°F [93°C] at rated working pressure. Field welding of couplings is not recommended.

TEMPERATURE: -4°F to +200°F [-20°C to +93°C] continuous service.

CONSTRUCTION:

- Tube:** Type V [Fluoroelastomer]. Black.
- Reinforcement:** Multiple layers of textile fabric and steel cable.
- Cover:** Type C4 [Modified Nitrile]. Black with gold stripe.
- Design Factor:** Working Pressure: 5,000 psi
Test Pressure: 10,000 psi
Burst Pressure: 12,500 psi

COUPLINGS: Swaged couplings. Meets NACE MR0175. Contact Gates E&S or a Gates Black Gold® distributor for a full range of fitting options such as hammer unions, flanges, hubs, etc.

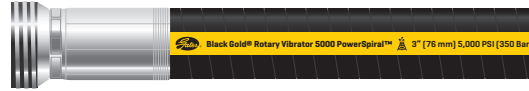
PACKAGING: Finished assemblies packaged in a heavy-duty corrugated box or wooden crate.

OPTIONS: Accessories such as safety clamps, hose lift eyes and stainless steel armor are available upon request. Test certificates are shipped with every order. Coupling material traceability, letters of conformance, 3rd party witness tests and NACE certificates are available for an additional fee.

STANDARDS: NACE MR0175. Made in the U.S.A.

Black Gold® Products

Rotary Vibrator 5000 PowerSpiral™



Hose I.D.		Hose O.D.		Max. W.P.		Min. Bend Radius		Wt. Per Ft. (hose)		Max. Hose Length
(In.)	(mm)	(In.)	(mm)	(psi)	(Bar)	(In.)	(mm)	(lb)	(Kg)	(ft)
3	76	3.86	98	5,000	345	35	889	6.80	2.7	200

RECOMMENDED FOR: Flexible connection between standpipe and top drive/swivel or between pump and standpipe for pumping mud at extra high pressure in oil drilling and exploration work. Meets the severe demands of today's drilling methods including directional drilling, pressure pulses and elevated temperatures.

CAUTION: Field welding of couplings is not recommended.

TEMPERATURE: -4°F to +250°F [-20°C to +121°C] continuous service.

CONSTRUCTION:

- Tube:** Type C2 [Modified Nitrile]. Black.
- Reinforcement:** High tensile steel wire.
- Cover:** Type A [Chlorprene]. Black with gold stripe.
- Design Factor:** 2.5:1

COUPLINGS: Crimped GSM. Contact Gates E&S or a Gates Black Gold® distributor for a full range of fitting options such as hammer unions, flanges, hubs, etc.

PACKAGING: Finished assemblies packaged in a heavy-duty corrugated box or wooden crate.

OPTIONS: Accessories such as safety clamps, hose lift eyes and stainless steel armor are available upon request. Test certificates are shipped with every order. Coupling material traceability, letters of conformance and 3rd party witness tests are available for an additional fee.

STANDARDS: API Spec 7K [6th Edition]. ISO 14693. ABS and DNV-GL type approvals. Made in the U.S.A.

Black Gold® Products

Slim Hole Rotary



Hose I.D.		Hose O.D.		Max. W.P.		Min. Bend Radius		Wt. Per Ft. (hose)		Max. Hose Length
(In.)	(mm)	(In.)	(mm)	(psi)	(Bar)	(In.)	(mm)	(lb)	(Kg)	(ft)
2	50.8	2.63	66.8	3,000	207	25	635	2.86	1.3	50
2	50.8	2.63	66.8	3,000	207	25	635	2.86	1.3	200
2 1/2	63.5	3.38	85.9	2,500	172	30	762	3.6	1.6	50
3	76.2	3.9	99.1	2,000	138	36	914	4.74	2.2	50
4	101.6	5.06	128.5	1,500	103	48	1219	7.22	3.3	50
1	25.4	1.53	38.9	5,000	345	12	305	1.49	0.7	200
1 1/4	31.8	1.97	50.0	5,000	345	16.5	419	2.70	1.2	200
1 1/2	38.1	2.26	57.4	5,000	345	20	508	3.325	1.5	200
2	50.8	2.8	71.1	5,000	345	25	635	4.78	2.2	50
2	50.8	2.8	71.1	5,000	345	25	635	4.78	2.2	50

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. For normal mud applications and where increased resistance to external abuse or pump pulsations is required.

TEMPERATURE: -40°F to +180°F [-40°C to +82°C] continuous service.

CONSTRUCTION:

- Tube:** Type C [Nitrile]. Black.
- Reinforcement:** High tensile steel wire.
- Cover:** Type C2 [Modified Nitrile]. Black with gold stripe All sizes are perforated.
- Design Factor:** 2.5:1

COUPLINGS:

- 1 1/4" I.D. 5,000 psi. Gates 20GS-20MPAPI [7347-7695]
- 1" I.D. 5,000 psi. Gates 16GS-16MPLH [7347-7654]
- 2 1/2", 3" and 4" - Swaged-On Permanent Couplings - API threads on connecting end of stem for easy flange attachment. Strong collar to anchor ferrule to stem. Electroplated steel. Also available in stainless steel and other special metals. Wildman Type Q reusable couplings. Contact Gates E&S for end connections.

STANDARDS: ARPM [Class A] High Oil Resistant Tube and MSHA 2G-IC-11C Flame Resistant Cover. Made in the U.S.A.

Black Gold® Products

Cementing 15000



Hose I.D.		Hose O.D.		Max. W.P.		Min. Bend Radius		Wt. Per Ft. (hose)		Max. Hose Length
(In.)	(mm)	(In.)	(mm)	(psi)	(Bar)	(In.)	(mm)	(lb)	(Kg)	(ft)
2 1/2	64	5.66	144	15,000	1034	60	1524	29.4	13.3	90
3	76	6.16	156	15,000	1034	60	1524	34.7	15.7	90

RECOMMENDED FOR: Used as a flexible connection between the cementing pump manifold and cementing head for conveyance of cement slurries at high pressure. The tube is designed to handle abrasive and corrosive cements. The UltraBration™ cover is designed to handle external damage from abrasion, corrosion, gouges, oil and weather.

CAUTION: Field welding of couplings is not recommended.

TEMPERATURE: -4°F to +212°F [-20°C to +100°C] continuous service.

CONSTRUCTION:

- Tube:** Type V [Fluoroelastomer]. Black.
- Reinforcement:** Multiple layers of textile fabric and steel cable.
- Cover:** Type C4 [Modified Nitrile]. Black with red stripe.
- Design Factor:**
 - Working Pressure: 15,000 psi
 - Test Pressure: 22,500 psi
 - Burst Pressure: 30,000 psi

COUPLINGS: Built-in couplings. Contact Gates E&S or a Gates Black Gold® distributor for a full range of fitting options such as hammer unions, flanges, hubs, etc.

PACKAGING: Finished assemblies packaged in a heavy-duty corrugated box or wooden crate.

OPTIONS: Accessories such as safety clamps, hose lift eyes and stainless steel armor are available upon request. Test certificates are shipped with every order. Coupling material traceability, letters of conformance and 3rd party witness tests are available for an additional fee.

Black Gold® Products

Cementing 15000



Hose I.D.		Hose O.D.		Max. W.P.	Min. Bend Radius		Wt. Per Ft. (hose)		Max. Hose Length	
(In.)	(mm)	(In.)	(mm)	(psi)	(Bar)	(In.)	(mm)	(lb)	(Kg)	(ft)
3	76	6.45	156	15,000	1034	60	1524	38.1	17.3	90

RECOMMENDED FOR: Used as a flexible connection between the cementing pump manifold and cementing head for conveyance of cement slurries at high pressure. The tube is designed to handle abrasive and corrosive cements. The UltraBration™ cover is designed to handle external damage from abrasion, corrosion, gouges, oil and weather.

CAUTION: Field welding of couplings is not recommended.

TEMPERATURE: -4°F to +212 [-20°C to +100°C] continuous service.

CONSTRUCTION:

- Tube:** Type C3 [Modified Nitrile]. Black.
- Reinforcement:** Multiple layers of textile fabric and steel cable.
- Cover:** Type C4 [Modified Nitrile]. Black with red stripe.
- Design Factor:**
 - Working Pressure: 15,000 psi
 - Test Pressure: 22,500 psi
 - Burst Pressure: 33,750 psi

COUPLINGS: Swaged couplings. Contact Gates E&S or a Gates Black Gold® distributor for a full range of fitting options such as hammer unions, flanges, hubs, etc.

PACKAGING: Finished assemblies packaged in a heavy-duty corrugated box or wooden crate.

OPTIONS: Accessories such as safety clamps, hose lift eyes and stainless steel armor are available upon request. Test certificates are shipped with every order. Coupling material traceability, letters of conformance and 3rd party witness tests are available for an additional fee.

STANDARDS: API Spec 7K FSL 0 [6th Edition]. ISO 14693. ABS type approvals. Made in the U.S.A.

Black Gold® Products

Cementing 10000



Hose I.D.		Hose O.D.		Max. W.P.		Min. Bend Radius		Wt. Per Ft. (hose)		Max. Hose Length
(In.)	(mm)	(In.)	(mm)	(psi)	(Bar)	(In.)	(mm)	(lb)	(Kg)	(ft)
2 1/2	64	5.16	131	10,000	689	48	1219	20.2	9.2	90
3	76	5.66	144	10,000	689	48	1219	22.6	10.3	90
3 1/2	89	6.04	153	10,000	689	54	1372	24.1	10.9	90

RECOMMENDED FOR: Used as a flexible connection between the cementing pump manifold and cementing head for conveyance of cement slurries at high pressure. The 3/16" thick tube is designed to handle abrasive and corrosive cements. The UltraBration™ cover is designed to handle external damage from abrasion, corrosion, gouges, oil and weather.

CAUTION: Field welding of couplings is not recommended.

TEMPERATURE: -4°F to +180°F [-20°C to +82°C] continuous service.

CONSTRUCTION:

- Tube:** Type C3 [Modified Nitrile]. Black.
- Reinforcement:** Multiple layers of textile fabric and steel cable.
- Cover:** Type C4 [Modified Nitrile]. Black with orange stripe.
- Design Factor:** Working Pressure: 10,000 psi
Test Pressure: 15,000 psi
Burst Pressure: 22,500 psi

COUPLINGS: Swaged couplings. Contact Gates E&S or a Gates Black Gold® distributor for a full range of fitting options such as hammer unions, flanges, hubs, etc.

PACKAGING: Finished assemblies packaged in a heavy-duty corrugated box or wooden crate.

OPTIONS: Accessories such as safety clamps, hose lift eyes and stainless steel armor are available upon request. Test certificates are shipped with every order. Coupling material traceability, letters of conformance and 3rd party witness tests are available for an additional fee.

STANDARDS: API Spec 7K FSL 0 [6th Edition]. ISO 14693. ABS type approvals. Made in the U.S.A.

Black Gold® Products

Cementing 10000 PowerSpiral™



Hose I.D.		Hose O.D.		Max. W.P.		Min. Bend Radius		Wt. Per Ft. (hose)		Max. Hose Length
(In.)	(mm)	(In.)	(mm)	(psi)	(Bar)	(In.)	(mm)	(lb)	(Kg)	(ft)
1 1/2	38	2.26	58	10,000	689	20	508	3.44	1.4	200
2	51	2.8	71	10,000	689	36	914	4.78	2.1	200

RECOMMENDED FOR: Used as a flexible connection between the cementing pump manifold and cementing head for conveyance of cement slurries at high pressure. The tube is designed to handle abrasive and corrosive cements. The MegaTuff® cover is designed to handle severe external damage from abrasion, corrosion, gouges, oil and weather.

CAUTION: Field welding of couplings is not recommended.

TEMPERATURE: -4°F to +250°F [-20°C to +121°C] continuous service.

CONSTRUCTION:

- Tube:** Type C [Nitrile]. Black.
- Reinforcement:** Multiple layers of spiraled high tensile steel wire.
- Cover:** Type L [MegaTuff®]. Black with orange stripe.
- Design Factor:** Working Pressure: 10,000 psi
Test Pressure: 15,000 psi
Burst Pressure: 22,500 psi

COUPLINGS: Crimped couplings. Contact Gates E&S or a Gates Black Gold® distributor for a full range of fitting options such as hammer unions, flanges, hubs, etc.

PACKAGING: Finished assemblies packaged in a heavy-duty corrugated box or wooden crate.

OPTIONS: Accessories such as safety clamps, hose lift eyes and stainless steel armor are available upon request. Test certificates are shipped with every order. Coupling material traceability, letters of conformance and 3rd party witness tests are available for an additional fee.

STANDARDS: API Spec 7K FSL 0 [6th Edition]. ISO 14693. ABS type approvals. Made in the U.S.A.

Black Gold® Products

Cementing 5000



Hose I.D.		Hose O.D.		Max. W.P.		Min. Bend Radius		Wt. Per Ft. (hose)		Max. Hose Length
(In.)	(mm)	(In.)	(mm)	(psi)	(Bar)	(In.)	(mm)	(lb)	(Kg)	(ft)
2 1/2	64	4.14	105	5,000	345	36	914	9.8	4.4	90
3	76	4.61	117	5,000	345	48	1219	10.8	4.9	90
3 1/2	89	5.25	133	5,000	345	54	1372	12.8	5.8	90
4	102	5.61	142	5,000	345	54	1372	13.4	6.1	90

RECOMMENDED FOR: Used as a flexible connection between the cementing pump manifold and cementing head for conveyance of cement slurries at high pressure. The 3/16" thick tube is designed to handle abrasive and corrosive cements. The UltraBration™ cover is designed to handle external damage from abrasion, corrosion, gouges, oil and weather.

CAUTION: Field welding of couplings is not recommended.

TEMPERATURE: -4°F to +180°F [-20°C to +82°C] continuous service.

CONSTRUCTION:

- Tube:** Type C3 [Modified Nitrile]. Black.
- Reinforcement:** Multiple layers of textile fabric and steel cable.
- Cover:** Type C4 [Modified Nitrile]. Black with gold stripe.
- Design Factor:** Working Pressure: 5,000 psi
Test Pressure: 7,500 psi
Burst Pressure: 12,500 psi

COUPLINGS: Swaged couplings. Contact Gates E&S or a Gates Black Gold® distributor for a full range of fitting options such as hammer unions, flanges, hubs, etc.

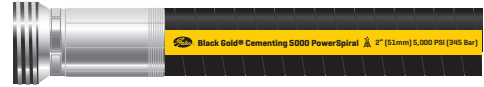
PACKAGING: Finished assemblies packaged in a heavy-duty corrugated box or wooden crate.

OPTIONS: Accessories such as safety clamps, hose lift eyes and stainless steel armor are available upon request. Test certificates are shipped with every order. Coupling material traceability, letters of conformance and 3rd party witness tests are available for an additional fee.

STANDARDS: API Spec 7K FSL 0 [6th Edition]. ISO 14693. ABS type approvals. Made in the U.S.A.

Black Gold® Products

Cementing 5000 PowerSpiral™



Hose I.D.		Hose O.D.		Max. W.P.		Min. Bend Radius		Wt. Per Ft. (hose)		Max. Hose Length
(In.)	(mm)	(In.)	(mm)	(psi)	(Bar)	(In.)	(mm)	(lb)	(Kg)	(ft)
2	51	2.8	71	5,000	345	36	914	4.78	2.1	200

RECOMMENDED FOR: Used as a flexible connection between the cementing pump manifold and cementing head for conveyance of cement slurries at high pressure. The tube is designed to handle abrasive and corrosive cements. The cover is designed to handle external damage from abrasion, corrosion, gouges, oil and weather.

CAUTION: Field welding of couplings is not recommended.

TEMPERATURE: -4°F to +250°F [-20°C to +121°C] continuous service.

CONSTRUCTION:

- Tube:** Type C [Nitrile]. Black.
- Reinforcement:** Multiple layers of spiraled high tensile steel wire.
- Cover:** Type A [Chloroprene]. Black
- Design Factor:** Working Pressure: 5,000 psi
Test Pressure: 7,500 psi
Burst Pressure: 12,500 psi

COUPLINGS: Crimped couplings. Contact Gates E&S or a Gates Black Gold® distributor for a full range of fitting options such as hammer unions, flanges, hubs, etc.

PACKAGING: Finished assemblies packaged in a heavy-duty corrugated box or wooden crate.

OPTIONS: Accessories such as safety clamps, hose lift eyes and stainless steel armor are available upon request. Test certificates are shipped with every order. Coupling material traceability, letters of conformance and 3rd party witness tests are available for an additional fee.

STANDARDS: API Spec 7K FSL 0 [6th Edition]. ISO 14693. ABS type approvals. Made in the U.S.A.

Black Gold® Products

Choke & Kill 15000



Hose I.D.		Hose O.D.		Max. W.P.		Min. Bend Radius		Wt. Per Ft. (hose)		Max. Hose Length
(In.)	(mm)	(In.)	(mm)	(psi)	(Bar)	(In.)	(mm)	(lb)	(Kg)	(ft)
2 1/2	64	5.66	144	15,000	1034	60	1524	29.4	13.3	90
3	76	6.16	156	15,000	1034	60	1524	33.2	15.1	90

RECOMMENDED FOR: Flexible hose between the riser and manifold or around the ball joint of offshore drilling rigs. Specially designed to withstand flexing and high pressures encountered in offshore applications.

CAUTION: Hoses are manufactured to handle up to 20% hydrogen sulfide H₂S for 1 hour at 200°F [93°C] at rated working pressure. Field welding of couplings is not recommended.

TEMPERATURE: -4°F to +200°F [-20°C to +93°C] continuous service.

CONSTRUCTION:

- Tube:** Type V [Fluoroelastomer]. Black.
- Reinforcement:** Multiple layers of textile fabric and steel cable.
- Cover:** Type C4 [Modified Nitrile]. Black with gold stripe.
- Design Factor:** Working Pressure: 15,000 psi
Test Pressure: 22,500 psi
Burst Pressure: 33,750 psi

COUPLINGS: Built-in couplings. Meets NACE MR0175. Contact Gates E&S or a Gates Black Gold® distributor for a full range of fitting options such as hammer unions, flanges, hubs, etc.

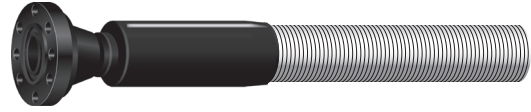
PACKAGING: Finished assemblies packaged in a heavy-duty corrugated box or wooden crate.

OPTIONS: Accessories such as safety clamps, hose lift eyes and stainless steel armor are available upon request. Test certificates are shipped with every order. Coupling material traceability, letters of conformance, 3rd party witness tests and NACE certificates are available for an additional fee.

STANDARDS: NACE MR0175. Made in the U.S.A.

Black Gold® Products

Choke & Kill XTreme™ 10000



Hose I.D.		Hose O.D.		Max. W.P.		Min. Bend Radius		Wt. Per Ft. (hose)		Max. Hose Length
(In.)	(mm)	(In.)	(mm)	(psi)	(Bar)	(In.)	(mm)	(lb)	(Kg)	(ft)
2	51	5.88	149	10,000	690	69	1750	34.7	15.7	50

RECOMMENDED FOR: Flexible Choke and Kill lines that require API 16C certification. The tube is specially compounded to resist abrasion, corrosion, oil, drilling muds, methane and H₂S. The UltraBration™ cover is compounded to protect against abrasion, corrosion, cutting, gouging, oil and weather.

CAUTION: Survival temperature is 350°F [177°C] for 1 hour per API 16C [2nd Edition] B.12.5. Field welding of couplings is not recommended.

TEMPERATURE: -4°F to +212°F [-20°C to +100°C] continuous service.

CONSTRUCTION:

- Tube:** Synthetic Polymer. Black.
- Reinforcement:** Multiple layers of textile fabric and steel cable.
- Cover:** Type C4 [Modified Nitrile]. Black with gold stripe.
- Design Factor:**

Working Pressure:	10,000 psi
Test Pressure:	15,000 psi
Burst Pressure:	22,500 psi

COUPLINGS: Crimped couplings. Meets NACE MR0175/ISO 15156. Contact Gates E&S or a Gates Black Gold® distributor for a full range of fitting options such as flanges and hubs.

PACKAGING: Finished assemblies packaged in a heavy-duty corrugated box or wooden crate.

OPTIONS: Accessories such as safety clamps, hose lift eyes and stainless steel armor are available upon request. Test certificates are shipped with every order. Coupling material traceability, letters of conformance, 3rd party witness tests and NACE certificates are available for an additional fee.

STANDARDS: API 16C FSL 3 [2nd Edition, Addendum 1] and NACE MR0175/ISO 15156. ABS type approvals. Made in the U.S.A.

Black Gold® Products

Choke & Kill 10000 MegaShield™



Hose I.D.		Hose O.D.		Max. W.P.		Min. Bend Radius		Wt. Per Ft. (hose)		Max. Hose Length
(In.)	(mm)	(In.)	(mm)	(psi)	(Bar)	(In.)	(mm)	(lb)	(Kg)	(ft)
2-1/2	64	5.45	138	10,000	690	48	12.19	25.0	11.3	90
3	76	6.02	152	10,000	690	48	12.19	27.9	12.6	90
3-1/2	89	6.71	170	10,000	690	54	13.72	31.1	14.1	90

RECOMMENDED FOR: Flexible Choke and Kill lines used on a Blow Out Preventer (BOP) system to control well pressure during the drilling process. MegaShield hoses can be used with or without stainless steel armor. **CAUTION:** Hoses are manufactured to handle up to 20% hydrogen sulfide H₂S for 1 hour at 200°F [93°C] at rated working pressure. Field welding of couplings is not recommended.

TEMPERATURE: -20°F to +200°F [-30°C to +93°C] continuous service.

CONSTRUCTION:

- Tube:** Type V (Fluoroelastomer) Black.
- Reinforcement:** Multiple layers of textile fabric and steel cable.
- Cover:** Type C4 (Modified Nitrile). Red with black stripe.
- Design Factor:** Working Pressure: 10,000 psi
Test Pressure: 15,000 psi
Burst Pressure: 22,500 psi

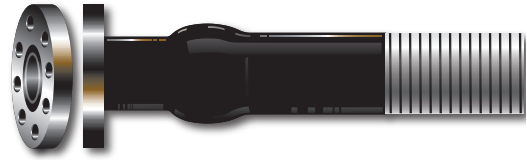
COUPLINGS: Swaged couplings. NACE MR0175/ISO 15156 couplings are available upon request. Contact Gates E&S or a Gates Black Gold® distributor for a full range of fitting options such as flanges and hubs.

PACKAGING: Finished assemblies packaged in a heavy-duty corrugated box or wooden crate.

STANDARDS: Hose survived (Lloyds OD/1000/499) at 704°C for 22 minutes.

Black Gold® Products

Choke & Kill 10000



Hose I.D.		Hose O.D.		Max. W.P.		Min. Bend Radius		Wt. Per Ft. (hose)		Max. Hose Length
(In.)	(mm)	(In.)	(mm)	(psi)	(Bar)	(In.)	(mm)	(lb)	(Kg)	(ft)
2 1/2	64	5.14	131	10,000	689	48	1219	20.6	9.3	90
3	76	5.64	143	10,000	689	48	1219	23.0	10.4	90
3 1/2	89	6.05	154	10,000	689	54	1372	24.6	11.2	90

RECOMMENDED FOR: Flexible hose between the riser and manifold or around the ball joint of offshore drilling rigs. Specially designed to withstand flexing and high pressures encountered in offshore applications.

CAUTION: Hoses are manufactured to handle up to 20% hydrogen sulfide H₂S for 1 hour at 200°F [93°C] at rated working pressure. Field welding of couplings is not recommended.

TEMPERATURE: -4°F to +200°F [-20°C to +93°C] continuous service.

CONSTRUCTION:

- Tube:** Type V [Fluoroelastomer]. Black.
- Reinforcement:** Multiple layers of textile fabric and steel cable.
- Cover:** Type C4 [Modified Nitrile]. Black with gold stripe.
- Design Factor:** Working Pressure: 10,000 psi
Test Pressure: 15,000 psi
Burst Pressure: 22,500 psi

COUPLINGS: Swaged couplings. Meets NACE MR0175. Contact Gates E&S or a Gates Black Gold® distributor for a full range of fitting options such as hammer unions, flanges, etc.

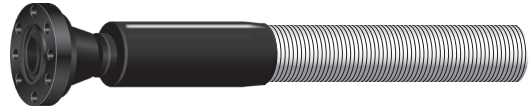
PACKAGING: Finished assemblies packaged in a heavy-duty corrugated box or wooden crate.

OPTIONS: Accessories such as safety clamps, hose lift eyes and stainless steel armor are available upon request. Test certificates are shipped with every order. Coupling material traceability, letters of conformance, 3rd party witness tests and NACE certificates are available for an additional fee.

STANDARDS: NACE MR0175. Lloyds Fire Test OD/1000/499. Made in the U.S.A.

Black Gold® Products

Choke & Kill XTreme™ 5000



Hose I.D.		Hose O.D.		Max. W.P.		Min. Bend Radius		Wt. Per Ft. (hose)		Max. Hose Length
(In.)	(mm)	(In.)	(mm)	(psi)	(Bar)	(In.)	(mm)	(lb)	(Kg)	(ft)
2	51	5.88	149	5,000	345	69	1750	22.8	33.9	50

RECOMMENDED FOR: Flexible Choke and Kill lines that require API 16C certification. The tube is specially compounded to resist abrasion, corrosion, oil, drilling muds, methane and H₂S. The UltraBration™ cover is compounded to protect against abrasion, corrosion, cutting, gouging, oil and weather.

CAUTION: Survival temperature is 350°F [177°C] for 1 hour per API 16C [2nd Edition] B.12.5. Field welding of couplings is not recommended.

TEMPERATURE: -4°F to +212°F [-20°C to +100°C] continuous service.

CONSTRUCTION:

- Tube:** Synthetic Polymer. Black.
- Reinforcement:** Multiple layers of textile fabric and steel cable.
- Cover:** Type C4 [Modified Nitrile]. Black with gold stripe.
- Design Factor:** Working Pressure: 5,000 psi
Test Pressure: 7,500 psi
Burst Pressure: 15,000 psi

COUPLINGS: Crimped couplings. Meets NACE MR0175/ISO 15156. Contact Gates E&S or a Gates Black Gold® distributor for a full range of fitting options such as flanges and hubs.

PACKAGING: Finished assemblies packaged in a heavy-duty corrugated box or wooden crate.

OPTIONS: Accessories such as safety clamps, hose lift eyes and stainless steel armor are available upon request. Test certificates are shipped with every order. Coupling material traceability, letters of conformance, 3rd party witness tests and NACE certificates are available for an additional fee.

STANDARDS: API 16C FSL 3 [2nd Edition, Addendum 1] and NACE MR0175/ISO 15156. ABS type approvals. Made in the U.S.A.

Black Gold® Products

Choke & Kill 5000 MegaShield™



Hose I.D.		Hose O.D.		Max. W.P.		Min. Bend Radius		Wt. Per Ft. (hose)		Max. Hose Length
(In.)	(mm)	(In.)	(mm)	(psi)	(Bar)	(In.)	(mm)	(lb)	(Kg)	(ft)
2-1/2	64	4.63	117	5,000	345	36	9.14	12.26	5.56	90
3	76	5.16	131	5,000	345	48	12.19	14.45	6.55	90
3-1/2	89	5.94	150	5,000	345	54	13.72	17.78	8.06	90
4	102	6.59	170	5,000	345	60	15.24	26.20	11.98	90

RECOMMENDED FOR: Flexible Choke and Kill lines used on a Blow Out Preventer (BOP) system to control well pressure during the drilling process. MegaShield hoses can be used with or without stainless steel armor. **CAUTION:** Hoses are manufactured to handle up to 20% hydrogen sulfide H₂S for 1 hour at 200°F (93°C) at rated working pressure. Field welding of couplings is not recommended.

TEMPERATURE: -20°F to +200°F [-30°C to +93°C] continuous service.

CONSTRUCTION:

- Tube:** Type V (Flouroelastomer) Black.
- Reinforcement:** Multiple layers of textile fabric and steel cable.
- Cover:** Type C4 (Modified Nitrile). Red with black stripe.
- Design Factor:** Working Pressure: 5,000 psi
Test Pressure: 10,000 psi
Burst Pressure: 15,000 psi

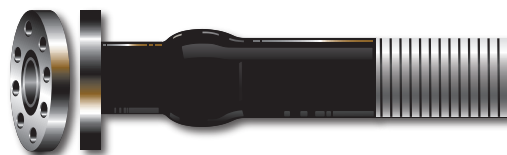
COUPLINGS: Swaged couplings. NACE MR0175/ISO 15156 couplings are available upon request. Contact Gates E&S or a Gates Black Gold® distributor for a full range of fitting options such as flanges and hubs.

PACKAGING: Finished assemblies packaged in a heavy-duty corrugated box or wooden crate.

STANDARDS: Hose survived [Lloyds OD/1000/499] at 704°C for 30 minutes.

Black Gold® Products

Choke & Kill 5000



Hose I.D.		Hose O.D.		Max. W.P.		Min. Bend Radius		Wt. Per Ft. (hose)		Max. Hose Length
(In.)	(mm)	(In.)	(mm)	(psi)	(Bar)	(In.)	(mm)	(lb)	(Kg)	(ft)
2 1/2	64	4.15	105	5,000	345	36	914	10.1	4.6	90
3	76	4.61	117	5,000	345	48	1219	11.1	5.0	90
3 1/2	89	5.25	133	5,000	345	54	1372	13.2	6.0	90
4	102	6.4	163	5,000	345	60	1524	26.4	12.0	90

RECOMMENDED FOR: Flexible hose between the riser and manifold or around the ball joint of offshore drilling rigs. Specially designed to withstand flexing and high pressures encountered in offshore applications.

CAUTION: Hoses are manufactured to handle up to 20% hydrogen sulfide H₂S for 1 hour at 200°F [93°C] at rated working pressure. Field welding of couplings is not recommended.

TEMPERATURE: -4°F to +200°F [-20°C to +93°C] continuous service.

CONSTRUCTION:

- Tube:** Type V [Fluoroelastomer]. Black.
- Reinforcement:** Multiple layers of textile fabric and steel cable.
- Cover:** Type C4 [Modified Nitrile]. Black with gold stripe.
- Design Factor:** Working Pressure: 5,000 psi
Test Pressure: 10,000 psi
Burst Pressure: 15,000 psi

COUPLINGS: Swaged couplings. Meets NACE MR0175. Contact Gates E&S or a Gates Black Gold® distributor for a full range of fitting options such as hammer unions, flanges, hubs, etc.

PACKAGING: Finished assemblies packaged in a heavy-duty corrugated box or wooden crate.

OPTIONS: Accessories such as safety clamps, hose lift eyes and stainless steel armor are available upon request. Test certificates are shipped with every order. Coupling material traceability, letters of conformance, 3rd party witness tests and NACE certificates are available for an additional fee.

STANDARDS: NACE MR0175. Made in the U.S.A.

Black Gold® Products

BOP 5000 MegaShield™



Hose I.D.		Hose O.D.		Max. W.P.		Min. Bend Radius		Wt. Per Ft. (hose)		Max. Hose Length
(In.)	(mm)	(In.)	(mm)	(psi)	(Bar)	(In.)	(mm)	(lb)	(Kg)	(ft)
1/4	6	0.77	20	5,000	345	4	102	0.37	0.2	440
3/8	10	0.93	24	5,000	345	5	127	0.52	0.2	330
1/2	13	1.05	27	5,000	345	7	178	0.63	0.3	220
3/4	19	1.38	35	5,000	345	9.5	241	1.05	0.5	200
1	25	1.67	42	5,000	345	12	305	1.77	0.8	200
1 1/4	32	2.11	54	5,000	345	16.5	419	2.67	1.2	200
1 1/2	38	2.41	61	5,000	345	20	508	3.00	1.4	200
2	51	2.96	75	5,000	345	25	635	5.73	2.6	200

RECOMMENDED FOR: Blow-out preventer (BOP) systems requiring high pressure, high temperature and flame resistant control lines certified to API 16D and Lloyds 1000/499 fire test for five minutes at 1300°F [704°C].

CAUTION: All BOP assemblies must be manufactured according to Gates GTS specification GTS-04-029 to meet API 16D and Lloyds 1000/499 fire test requirements by Gates E&S or a qualified Gates Black Gold® distributor.

TEMPERATURE: -40°F to +212°F [-40°C to +100°C] continuous service.

CONSTRUCTION:

- Tube:** Type C [Nitrile]. Black.
- Reinforcement:** Multiple layers of high tensile steel wire.
- Cover:** Type A3 [Modified Chloroprene]. Red with black stripe.
- Design Factor:** 4:1

COUPLINGS: Crimped couplings with over-ferrule fire protection. Contact Gates E&S or a Gates Black Gold® distributor for a full range of coupling and over-ferrule options.

PACKAGING: Finished assemblies packaged in a heavy-duty corrugated box or wooden crate.

OPTIONS: Test certificates are shipped with every order. Lloyds certificates are available upon request. Accessories such as API 16D quick disconnects and exterior armor to protect hoses against extreme environmental damage are available upon request.

STANDARDS: API [American Petroleum Institute] 16D and Lloyds 1000/499 fire test. Hydrostatic pressure tests per EUB [Alberta Energy and Utilities Board].

Black Gold® Products

PowerSpiral™ 5000



Hose I.D.		Hose O.D.		Max. W.P.		Min. Burst		MBR		Wt. Per Ft. (hose)		Length	Std Pack	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Bar)	(psi)	(Bar)	(In.)	(mm)	(lb)	(Kg)	(ft)		
3/4	19	1.24	32	5,000	345	20,000	1379	9.5	241	0.95	0.4	100	CTN	3670-0810
3/4	19	1.24	32	5,000	345	20,000	1379	9.5	241	0.95	0.4	200	Reel	3670-0811
1	25	1.53	39	5,000	345	20,000	1379	12.0	305	1.49	0.7	100	CTN	3670-0812
1	25	1.53	39	5,000	345	20,000	1379	12.0	305	1.49	0.7	200	Reel	3670-0813
1 1/4	32	1.85	50	5,000	345	20,000	1379	16.5	419	1.92	1.2	200	CTN	3670-0814
1 1/4	32	1.85	50	5,000	345	20,000	1379	16.5	419	1.92	1.2	200	Reel	3670-0815
1 1/2	38	2.26	57	5,000	345	20,000	1379	20.0	508	3.44	1.5	200	CTN	3670-0816
1 1/2	38	2.26	57	5,000	345	20,000	1379	20.0	508	3.44	1.5	200	Reel	3670-0817
2	51	2.8	71	5,000	345	20,000	1379	25.0	635	4.78	2.2	50	CTN	3670-0818
2	51	2.80	71	5,000	345	20,000	1379	25.0	635	4.78	2.2	200	Reel	3670-0819

RECOMMENDED FOR: Flexible hydraulic connections between the Hydraulic Power Unit (HPU) and critical drilling equipment such as top drives, iron roughnecks and pipe handlers that demand extreme performance and durability.

DESIGN FACTOR: 4:1

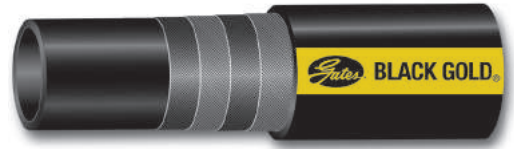
TEMPERATURE: -40°F to +212°F [-40°C to +100°C]

COUPLINGS: [See gates.com/ecrimp or Crimp Data Manual 35019]
MegaCrimp® Couplings [Section G]

STANDARDS: Meets or exceeds pressure performance requirements of SAE 100R13, flame resistance acceptance designation "MSHA 2G" and ABS. DNV-GL approval.

Black Gold® Products

PowerSpiral™ 3000



Hose I.D.		Hose O.D.		Max. W.P.		Min. Burst		MBR		Wt. Per Ft. (hose)		Length	Std Pack	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Bar)	(psi)	(Bar)	(In.)	(mm)	(lb)	(Kg)	(ft)		
1 1/4	32	1.85	47	3,000	207	12,000	827	8.2	208	1.92	0.9	100	CTN	3670-0830
1 1/4	32	1.85	47	3,000	207	12,000	827	8.2	208	1.92	0.9	200	Reel	3670-0835
1 1/2	38	2.105	53	3,000	207	12,000	827	10.0	254	2.08	0.9	50	CTN	3670-0834
1 1/2	38	2.105	53	3,000	207	12,000	827	10.0	254	2.08	0.9	200	Reel	3670-0829
2	51	2.63	67	3,000	207	12,000	827	25.0	635	2.86	1.3	200	CTN	3670-0820
2	51	2.63	67	3,000	207	12,000	827	25.0	635	2.86	1.3	200	Reel	3670-0821

RECOMMENDED FOR: Flexible hydraulic connections between the Hydraulic Power Unit (HPU) and critical drilling equipment such as top drives, iron roughnecks and pipe handlers that demand extreme performance and durability.

DESIGN FACTOR: 4:1

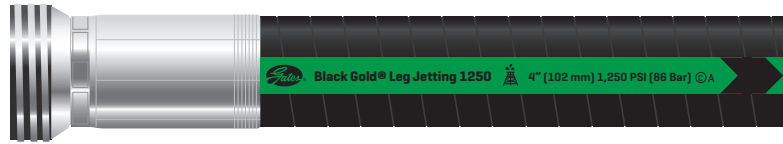
TEMPERATURE: -40°F to +212°F [-40°C to +100°C]

COUPLINGS: [See gates.com/ecrimp or Crimp Data Manual 35019]
MegaCrimp® Couplings [Section G]

STANDARDS: Meets or exceeds pressure performance requirements of SAE 100R12, flame resistance acceptance designation “MSHA 2G” and ABS. DNV-GL approval.

Black Gold® Products

Leg Jetting 1250



Hose I.D.		Hose O.D.		Max. W.P.		Min. Bend Radius		Wt. Per Ft. (hose)		Max. Hose Length
(In.)	(mm)	(In.)	(mm)	(psi)	(Bar)	(In.)	(mm)	(lb)	(Kg)	(ft)
2 1/2	64	3.4	86.4	1,250	86	30	762	9.4	4.3	50
3	76	3.9	99.1	1,250	86	36	914	10.5	4.8	50
4	102	5.1	129.5	1,250	86	48	1219	14.2	6.5	50

RECOMMENDED FOR: High pressure water systems used to break the suction between the jack-up feet (spud cans) and ocean floor prior to lifting the legs.

TEMPERATURE: -40°F to +180°F [-40°C to +82°C]

CONSTRUCTION:

Tube: Nitrile. Black.

Reinforcement: High tensile steel wire.

Cover: Polychloroprene. Black with green stripe.

Design Factor: 4:1 [2 1/2" & 3"]
3:1 [4"]

COUPLINGS:

Swaged couplings. Contact Gates E&S or a Gates Black Gold® distributor for a full range of fitting options such as hammer unions, flanges, hubs, etc.

PACKAGING:

Carton packaging

Hydraulic Products

PowerBraid™ (2 Wire)



Hose I.D.		Hose O.D.		Max. W.P.		Min. Burst		MBR		Wt. Per Ft. (hose)		Length	Std Pack	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Bar)	(psi)	(Bar)	(In.)	(mm)	(lb)	(Kg)	(ft)		
1/4	6	0.56	14	6,000	414	24,000	1655	2.0	51	0.21	0.1	550	Reel	3670-0801
3/8	10	0.7	18	5,000	345	20,000	1379	2.5	64	0.3	0.1	385	Reel	3670-0802
3/8	10	0.7	18	5,000	345	20,000	1379	2.5	64	0.3	0.1	1500	Reel	3670-0827
1/2	13	0.82	21	4,300	296	17,200	1186	3.5	89	0.35	0.2	330	Reel	3670-0803
1/2	13	0.82	21	4,300	296	17,200	1186	3.5	89	0.35	0.2	1000	Reel	3670-0828
5/8	16	0.95	24	3,800	262	15,200	1048	4.0	102	0.44	0.2	220	Reel	3670-0804
3/4	19	1.11	28	3,500	241	14,000	965	4.8	122	0.54	0.2	220	Reel	3670-0805
1	25	1.48	38	3,250	224	13,000	896	6.0	152	1.04	0.5	165	Reel	3670-0806
1 1/4	32	1.86	47	1,825	126	7,300	503	16.5	419	1.5	0.7	120	CTN	3670-0807
1 1/2	38	2.11	54	1,300	90	5,200	359	20.0	508	1.77	0.8	120	CTN	3670-0808
2	51	2.62	67	1,175	81	4,700	324	25.0	635	2.25	1.0	120	CTN	3670-0809

RECOMMENDED FOR: Flexible hydraulic connections between the Hydraulic Power Unit (HPU) and critical drilling equipment such as top drives, iron roughnecks and pipe handlers that demand extreme performance and durability.

DESIGN FACTOR: 4:1

TEMPERATURE: -40°F to +212°F [-40°C to +100°C]

COUPLINGS: [See gates.com/ecrimp or Crimp Data Manual 35019]
MegaCrimp® Couplings [Section G]

STANDARDS: Meets or exceeds pressure performance requirements of 100R2, flame resistance acceptance designation “MSHA 2G” and ABS. DNV-GL approval.

Hydraulic Products

PowerBraid™ (1 Wire)



Hose I.D.		Hose O.D.		Max. W.P.		Min. Burst		MBR		Wt. Per Ft. (hose)		Length	Std Pack	Gates Item No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Bar)	(psi)	(Bar)	(In.)	(mm)	(lb)	(Kg)	(ft)		
1/4	6	0.48	12	3,000	207	12,000	827	2.0	51	0.113	0.1	440	Reel	3670-0841
1/4	6	0.48	12	3,000	207	12,000	827	2.0	51	0.113	0.1	1400	Reel	3670-0836
3/8	10	0.63	16	3,000	207	12,000	827	2.5	64	0.184	0.1	330	Reel	3670-0838
3/8	10	0.63	16	3,000	207	12,000	827	2.5	64	0.184	0.1	1000	Reel	3670-0839
1/2	13	0.8	20	3,000	207	12,000	827	3.5	89	0.479	0.2	220	Reel	3670-0840
1/2	13	0.8	20	3,000	207	12,000	827	3.5	89	0.479	0.2	1000	Reel	3670-0837
5/8	16	0.93	24	1,900	131	7,600	524	4.0	102	0.309	0.1	220	Reel	3670-0833
3/4	19	1.09	28	1,525	105	6,100	421	4.8	122	0.392	0.2	220	Reel	3670-0832
1	25	1.40	36	1,275	88	5,100	352	6.0	152	0.575	0.3	165	Reel	3670-0831

RECOMMENDED FOR: Flexible hydraulic connections between the Hydraulic Power Unit (HPU) and critical drilling equipment such as top drives, iron roughnecks and pipe handlers that demand extreme performance and durability.

DESIGN FACTOR: 4:1

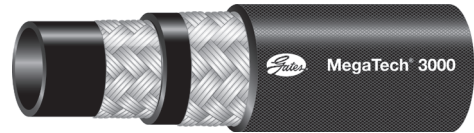
TEMPERATURE: -40°F to +212°F [-40°C to +100°C]

COUPLINGS: [See gates.com/ecrimp or Crimp Data Manual 35019]
MegaCrimp® Couplings [Section G]

STANDARDS: Meets or exceeds pressure performance requirements of 100R1, flame resistance acceptance designation “MSHA 2G” and ABS. DNV-GL approval.

Hydraulic Products

MegaTech® 3000 High-Temp Oil-Air Return



Nom I.D. (In.)	Nom O.D. (In.)	Working Pressure (psi)	Suction (in Hg)	Min. Burst (psi)	Min. Bend Radius (In.)	Standard Pack	Wt. Per Ft. (hose) (lb)	Description	Product No.
1/4	.59	3000	30	12000	2.0	400	.25	4MEGATECH 3000XREEL	4657-2373
1/4	.59	3000	30	12000	2.0	1	12.40	4MEGATECH3000 X50FT	4657-4116
3/8	.74	3000	30	12000	2.5	350	.31	6MEGATECH 3000XREEL	4657-2374
3/8	.74	3000	30	12000	2.5	1	16.40	6MEGATECH3000 X50FT	4657-4117
1/2	.86	3000	30	12000	3.5	350	.37	8MEGATECH 3000XREEL	4657-2319
1/2	.86	3000	30	12000	3.5	1	20.00	8MEGATECH3000 X50FT	4657-4118

RECOMMENDED FOR: For pressurized hot oil return lines and rotary oil lines. Meets the requirements of performance specifications for high-temperature transmission and lubricating oil systems using petroleum base oils.

TEMPERATURE: Petroleum-base fluids: -40°F to +300°F [-40°C to +149°C]. Phosphate esters fluids as recommended by the fluid manufacturer, but within a range of -40°F to +212°F [-40°C to +100°C]. For water emulsions see Temperature Limits Table.

CONSTRUCTION: **Tube:** True-bore GTS [Gates Technical Spec.] black tube specifically compounded for temperature and chemical resistance [CPE - Type J].

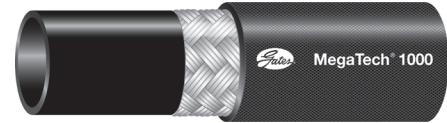
Reinforcement: Two braids of high-tensile steel wire.

Cover: Oil and mildew resistant, textile braid, impregnated with synthetic rubber.

COUPLINGS: [See gates.com/ecrimp or Crimp Data Manual 35019]
MegaCrimp® Couplings [Section G]

Hydraulic Products

MegaTech® 1000 High-Temp Oil-Air Return



Nom I.D.	Nom O.D.	Working Pressure	Suction	Min. Burst	Min. Bend Radius	Standard Pack	Wt. Per Ft. (hose)	Description	Product No.
(In.)	(In.)	(psi)	(in Hg)	(psi)	(In.)		(lb)		
1/4	.52	1000	30	4000	2.0	350	.11	4MEGATECH 1000XREEL	4657-2332
1/4	.52	1000	30	4000	2.0	1	5.99	4MEGATECH1000 X50FT	4657-2503
3/8	.66	1000	30	4000	2.5	350	.20	6MEGATECH 1000XREEL	4657-2297
3/8	.66	1000	30	4000	2.5	1	9.75	6MEGATECH1000 X50FT	4657-2504
1/2	.80	1000	30	4000	3.5	350	.24	8MEGATECH 1000XREEL	4657-2334
1/2	.80	1000	30	4000	3.5	1	11.81	8MEGATECH1000 X50FT	4657-2505
5/8	.93	1000	30	4000	4.0	300	.33	10MEGATECH 1000XREEL	4657-2335
5/8	.93	1000	30	4000	4.0	1	15.06	10MEGATECH1000 X50FT	4657-2506
3/4	1.15	1000	30	4000	4.7	200	.40	12MEGATECH 1000XREEL	4657-2336
3/4	1.15	1000	30	4000	4.7	1	21.00	12MEGATECH1000 X50FT	4657-4040
1	1.37	1000	30	4000	6.0	150	.58	16MEGATECH 1000XREEL	4657-2337
1	1.37	1000	30	4000	6.0	1	25.80	16MEGATECH1000 X50FT	4657-4041
1 1/4	1.64	1000	30	4000	8.5	100	.83	20MEGATECH 1000XCTN	4657-2338
1 1/4	1.64	1000	30	4000	8.5	1	45.67	20MEGATECH1000 X50FT	4657-4042

Note: Federal law requires registration with the Department of Transportation for anyone producing air brake hose assemblies with swaged or crimped fittings. See Engineering and Technical Data Section for compliance.

RECOMMENDED FOR: Air brake, pressurized hot oil return lines and rotary oil/air compressor lines. Meets the requirements of DOT FMVSS 106-74, SAE J1402, for Air Brake Hose [-4, 6, 8, 10], and performance specifications for high-temperature transmission and lubricating oil systems using petroleum base oils.

TEMPERATURE: Petroleum-base fluids: -40°F to +300°F [-40°C to +149°C]. Phosphate esters fluids as recommended by the fluid manufacturer, but within a range of -40°F to +212°F [-40°C to +100°C]. For water emulsions see Temperature Limits Table.

CONSTRUCTION: **Tube:** GTS (Gates Technical Spec.) black tube specifically compounded for temperature and chemical resistance [CPE - Type J]. See Hose Stock Characteristics.

Reinforcement: One braid of high-tensile steel wire.

Cover: Oil and mildew resistant, textile braid, impregnated with synthetic rubber.

COUPLINGS: [See gates.com/ecrimp or Crimp Data Manual 35019] MegaCrimp® Couplings [Section G]

Hydraulic Products

GMV Global MegaVac® Return Line and Suction Hose



Nom I.D.	Nom O.D.	Working Pressure	Suction	Min. Burst	Min. Bend Radius	Standard Pack	Wt. Per Ft. (hose)	Description	Product No.
(In.)	(In.)	(psi)	(in Hg)	(psi)	(In.)		(lb)		
3/4	1.22	350	25	1400	2.5	1	11.22	12GMV X25FT	4504-0961
3/4	1.22	350	25	1400	2.5	100	.45	12GMVXCTN	4504-0123
1	1.45	300	25	1200	3.0	1	13.52	16GMV X25FT	4504-0962
1	1.45	300	25	1200	3.0	100	.54	16GMVXCTN	4504-0003
1 1/4	1.76	250	25	1000	4.0	1	19.17	20GMV X25FT	4504-0963
1 1/4	1.76	250	25	1000	4.0	100	.77	20GMVXCTN	4504-0004
1 1/2	1.95	160	25	640	5.0	1	25.30	24GMV X25FT	3105-0030
1 1/2	1.95	160	25	640	5.0	100	.91	24GMV X100FT	3105-0004
2	2.47	115	25	460	6.0	1	34.00	32GMV X25FT	3105-0031
2	2.47	115	25	460	6.0	100	1.16	32GMV X100FT	3105-0006
2 1/4	2.76	90	25	360	7.0	100	1.26	36GMVXCTN*	3105-0008
2 1/2	3.02	70	25	280	7.0	100	1.39	40GMV X100FT	3105-0010
3	3.51	60	25	240	9.0	100	1.63	48GMV X100FT	3105-0014
3 1/2	4.01	55	25	220	10.0	100	1.80	56GMV X100FT	3105-0015
4	4.51	55	25	220	12.0	100	2.05	64GMV X100FT	3105-0018

*Stem and clamp only, no Gates couplings available.

RECOMMENDED FOR: Petroleum and water-base hydraulic fluids in suction lines or in low pressure return lines. Meets or exceeds requirements of SAE 100R4. Uses half the bend radius of SAE 100R4. Meets marine ABS with use of HeatGuard® high temp sleeve.

TEMPERATURE: -40°F to +275°F [-40°C to +135°C]. For water emulsions see Temperature Limits Table.

CONSTRUCTION: **Tube:** Black, synthetic rubber is specifically designed for resistance to high temperatures [Nitrile - Type C]. See Hose Stock Characteristics.

Reinforcement: Double spiral textile [braid for -12, -16 and -20] reinforced with a helical spiral-wire to prevent collapse.

Cover: Black synthetic rubber is oil and abrasion resistant [Polychloroprene - Type A]. See Hose Stock Characteristics.

COUPLINGS: [See gates.com/ecrimp or Crimp Data Manual 35019]
GL Couplings [-12 through -40] [Section J]
GlobalSpiral™ Plus Couplings [-24 and -32] [Section E]
MegaCrimp® Couplings [-12 through -20] [Section G]
Use clamp over beaded nipple.

STANDARDS: ABS & DNV-GL type approvals.

Industrial Hose Products

Oilfield Service 1000



Hose I.D.		Hose O.D.		Max. W.P.		Min. Burst		MBR		Wt. Per Ft. (hose)		Length	Std	Pkg	MOQ	Gates Item No.	List Price Per Ft.
(In.)	(mm)	(In.)	(mm)	(psi)	(Bar)	(psi)	(Bar)	(In.)	(mm)	(lb)	(Kg)	(ft)	Pack	Code	(ft)	No.	
3/8	10	0.74	19	1,000	69	4,000	276	5.0	127	0.39	0.2	400	Reel	BB	400	3670-0846	TBD
1/2	13	0.86	22	1,000	69	4,000	276	7.0	178	0.47	0.2	400	Reel	GG	400	3670-0847	TBD
3/4	19	1.15	29	1,000	69	4,000	276	9.5	241	0.68	0.3	400	Reel	GG	400	3670-0848	TBD
1	25	1.48	38	1,000	69	4,000	276	12.0	305	1.02	0.5	400	Reel	GG	400	3670-0849	TBD

RECOMMENDED FOR: Used to transfer chemicals and fill tanks on blender trucks, such as “Chem Add” applications. Special chemical resistant tube. Gates added a second layer of wire braid to make the hose extra durable. The perforated cover provides multi-purpose use including the transfer of nitrogen gas. The Hypalon® cover provides additional resistance to oil and environmental conditions.

CAUTION: 1000 psi maximum working pressure for liquids.
300 psi maximum working pressure for gases.

TEMPERATURE: -40°F to +300°F [-40°C to +150°C]

CONSTRUCTION:
Tube: Type J [CPE]. Black.
Reinforcement: Braided, high tensile steel wire.
Cover: Type M [Hypalon®]. Black with red stripe.
Design Factor: 4:1

COUPLINGS: Megacrimp® [G], GlobalSpiral™ [GS] and Stainless Steel couplings [B-SS]

PACKAGING: Reel. Minimum length of 10 ft. BB = max of 4 lengths. GG = max of 3 lengths

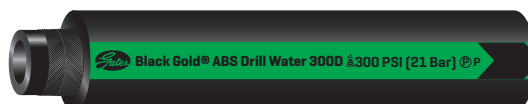
BRANDING: Black letters. Example: “Gates® Black Gold® Oilfield Service 3/8” [9.5mm] <1000 PSI [70Bar] Max Liquid Working Pressure. 300 PSI [21 Bar] Max Gas Working Pressure> MSHA 2G-11C

OPTIONS: None.

STANDARDS: ARPM [Class A] High Oil Resistant Tube and MSHA 2G-IC-11C Flame Resistant Cover. Made in the U.S.A.

Industrial Hose Products

Drill Water 300D



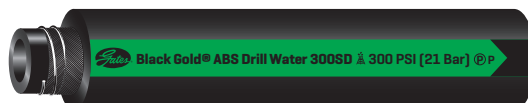
Hose I.D. (In.)	Hose O.D. (In.)	Max. W.P. (psi)	Vac (in Hg)	MBR (In.)	Wt. Per Ft. (hose)		Length (ft)	Std Pack	Pkg Code	MOQ (ft)	Gates Item No.
2	2.58	300	-	-	0.98	0.4	200	Pall	C1	400	3137-1280
3	3.64	300	-	-	1.8	0.8	200	Pall	C1	400	3137-1281
4	4.64	300	-	-	2.30	1.0	200	Pall	C1	400	3137-1282
5	5.78	300	-	-	3.5	1.6	200	Pall	C1	400	3137-1283
6	6.82	250	-	-	4.5	2.0	200	Pall	C1	400	3137-1284

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

Design Factor: 4:1

Standards: ABS type approval for 2-5" ID.

Drill Water 300SD



Hose I.D. (In.)	Hose O.D. (In.)	Max. W.P. (psi)	Vac (in Hg)	MBR (In.)	Wt. Per Ft. (hose)		Length (ft)	Std Pack	Pkg Code	MOQ (ft)	Gates Item No.
2	2.62	300	30	12.0	1.2	0.5	200	Pall	C1	400	4686-0028
3	3.62	300	30	24.0	1.9	0.9	200	Pall	C1	400	4686-0029
4	4.62	300	30	30.0	2.40	1.1	200	Pall	C1	400	4686-0030
5	5.92	250	30	36.0	4.4	2.0	200	Pall	C1	400	4686-0027
6	6.92	300	30	40.0	5.3	2.4	200	Pall	C1	400	4686-0032

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

Design Factor: 4:1

Standards: ABS type approval for 2-4" and 6" ID.

Industrial Hose Products

Black Gold® Fuel 300D

Built for the transfer of water, petroleum based fluids, dilute acids, chemicals and abrasive slurries. Ideal for onshore and offshore refined fuel transfer.



Design Factor: 4:1

Nom ID (in)	Nom OD (in)	Working Pressure (psi)	Suction (in. Hg)	Min Bend Radius	Wt Per Ft (lbs)	Standard Pack	Product No.
2	2.66	300	10.0	14.0	1.78	200 ft	4110-0701
2 1/2	3.16	300	10.0	17.0	2.16	200 ft	4110-0704
3	3.70	300	10.0	21.0	2.45	200 ft	4110-0707
4	4.70	300	10.0	28.0	3.14	200 ft	4110-0710
5	5.84	300	10.0	35.0	4.50	200 ft	4110-0713

Black Gold® Fuel 300SD

A hardwall hose used for the transfer of water, petroleum based fluids, dilute acids, chemicals and abrasive slurries. Ideal for onshore and offshore refined fuel transfer.



Design Factor: 4:1

Nom ID (in)	Nom OD (in)	Working Pressure (psi)	Suction (in. Hg)	Min Bend Radius	Wt Per Ft (lbs)	Standard Pack	Product No.
2	2.78	300	30.0	10.0	1.60	200 ft	4688-0584
3	3.86	300	30.0	18.0	2.59	200 ft	4688-0585
4	4.87	300	30.0	24.0	3.52	200 ft	4688-0587
6	7.07	200	30.0	36.0	7.95	200 ft*	4688-0588

*100 ft standard pack also available

Industrial Hose Products

Mud & Oil 300D



Hose I.D. (In.)	Hose O.D. (In.)	Max. W.P. (psi)	Vac (in Hg)	MBR (In.)	Wt. Per Ft. (hose) (lb) (Kg)		Length (ft)	Std Pack	Pkg Code	MOQ (ft)	Gates Item No.
2	2.62	300	-	-	1.2	0.5	200	Pall	C1	400	3150-0503
3	3.62	300	-	-	1.9	0.9	200	Pall	C1	400	3150-0504
4	4.62	300	-	-	2.40	1.1	200	Pall	C1	400	3150-0505
5	5.92	300	-	-	4.4	2.0	200	Pall	C1	400	3150-0506
6	6.92	300	-	-	5.3	2.4	200	Pall	C1	400	3150-0507

RECOMMENDED FOR: Transfer of abrasive, water based and petroleum based drilling fluids from a supply ship to an offshore drilling rig or platform; and for transfer applications on offshore or onshore drilling rigs or platforms. The nitrile tube material is designed to provide chemical resistance to petroleum based fluids. It uses the same tube compound as Gates Black Gold® Grade D & E Rotary & Vibrator hoses. The heavy duty reinforcement is designed to survive extreme oilfield application requirements. The polychloroprene cover material is designed to withstand the harshest offshore environment including abrasion, weathering [cracks] and extra chemical resistance for any petroleum products that may come in contact with the cover.

Design Factor: 4:1

Standards: ABS type approval.

Mud & Oil 300SD



Hose I.D. (In.)	Hose O.D. (In.)	Max. W.P. (psi)	Vac (in Hg)	MBR (In.)	Wt. Per Ft. (hose) (lb) (Kg)		Length (ft)	Std Pack	Pkg Code	MOQ (ft)	Gates Item No.
2	2.87	300	30	24.0	1.8	0.8	200	Pall	C1	400	4689-0001
3	3.85	300	30	32.0	2.8	1.3	200	Pall	C1	400	4689-0005
4	5.10	300	30	42.0	4.5	2.0	200	Pall	C1	400	4689-0002
5	6.20	300	30	51.0	6	2.7	200	Pall	C1	400	4689-0003
6	7.40	300	30	60.0	8.6	3.9	200	Pall	C1	400	4689-0004

RECOMMENDED FOR: Transfer of abrasive, water based and petroleum based drilling fluids from a supply ship to an offshore drilling rig or platform; and for transfer applications on offshore or onshore drilling rigs or platforms. The nitrile tube material is designed to provide chemical resistance to petroleum based fluids. It uses the same tube compound as Gates Black Gold® Grade D & E Rotary & Vibrator hoses. The heavy duty reinforcement is designed to survive extreme oilfield application requirements. The polychloroprene cover material is designed to withstand the harshest offshore environment including abrasion, weathering [cracks] and extra chemical resistance for any petroleum products that may come in contact with the cover.

Design Factor: 4:1

Standards: ABS type approval.

Industrial Hose Products

Bulk Material 300D



Hose I.D. (In.)	Hose O.D. (In.)	Max. W.P. (psi)	Vac (in Hg)	MBR (In.)	Wt. Per Ft. (hose) (lb) (Kg)		Length (ft)	Std Pack	Pkg Code	MOQ (ft)	Gates Item No.
3	3.98	300	-	-	2.91	1.3	200	Pall	C1	400	3129-1000
4	4.98	300	-	-	3.40	1.5	200	Pall	C1	400	3129-1001
5	6.14	300	-	-	4.67	2.1	200	Pall	C1	400	3129-1002
6	7.14	250	-	-	5.51	2.5	200	Pall	C1	400	3129-1003

RECOMMENDED FOR: Transfer of abrasive materials such as barite and cement from a supply ship to an offshore drilling rig or platform; and for transfer applications on offshore or onshore drilling rigs or platforms. The natural rubber tube is specially compounded to conduct electricity and made with extra thickness to resist abrasion. The heavy duty reinforcement is designed to survive extreme oilfield application requirements. The specially compounded cover material is designed to withstand the harshest environment including abrasion and weathering.

Design Factor: 4:1

Standards: ABS type approval for 3, 4, 5" ID.

Bulk Material 300SD



Hose I.D. (In.)	Hose O.D. (In.)	Max. W.P. (psi)	Vac (in Hg)	MBR (In.)	Wt. Per Ft. (hose) (lb) (Kg)		Length (ft)	Std Pack	Pkg Code	MOQ (ft)	Gates Item No.
3	4.23	300	29	32.0	3.47	1.6	200	Pall	C1	400	4691-0017
4	5.30	300	29	42.0	5.23	2.4	200	Pall	C1	400	4691-0018
5	6.33	300	29	51.0	6.03	2.7	200	Pall	C1	400	4691-0019
6	7.33	300	29	60.0	7.27	3.3	200	Pall	C1	400	4691-0020

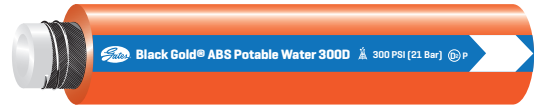
RECOMMENDED FOR: Transfer of abrasive materials such as barite and cement from a supply ship to an offshore drilling rig or platform; and for transfer applications on offshore or onshore drilling rigs or platforms. The natural rubber tube is specially compounded to conduct electricity and made with extra thickness to resist abrasion. The heavy duty reinforcement is designed to survive extreme oilfield application requirements. The specially compounded cover material is designed to withstand the harshest environment including abrasion and weathering.

Design Factor: 4:1

Standards: ABS type approval for all sizes.

Industrial Hose Products

Potable Water 300D



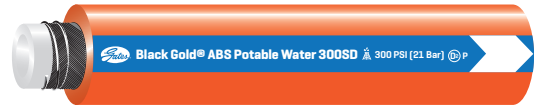
RECOMMENDED FOR: Transfer of potable or non-potable water or liquids not containing oils or chemicals from a supply ship to an offshore drilling rig or platform. Various water-based transfer applications for offshore or onshore work sites. The food grade tube meets FDA requirements and will not impart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

Design Factor: 4:1

Standards: ABS type approval

Hose I.D. (In.)	Hose O.D. (In.)	Max. W.P. (psi)	Vac (in Hg)	MBR (In.)	Wt. Per Ft. (hose) (lb) (Kg)		Length (ft)	Std Pack	Pkg Code	MOQ (ft)	Gates Item No.
2	2.69	300	-	-	1.14	0.5	200	Pall	C1	400	3132-5010
3	3.73	300	-	-	1.81	0.8	200	Pall	C1	400	3132-5011
4	4.69	300	-	-	2.46	1.1	200	Pall	C1	400	3132-5012

Potable Water 300SD



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

Design Factor: 4:1

Standards: ABS type approval

Hose I.D. (In.)	Hose O.D. (In.)	Max. W.P. (psi)	Vac (in Hg)	MBR (In.)	Wt. Per Ft. (hose) (lb) (Kg)		Length (ft)	Std Pack	Pkg Code	MOQ (ft)	Gates Item No.
4	4.96	300	29	28.0	3.7	1.7	200	Pall	C1	400	3132-5013
5	6.09	300	29	36.0	5.28	2.4	200	Pall	C1	400	3132-5014
6	7.16	300	29	40.0	6.69	3.0	200	Pall	C1	400	3132-5015

Industrial Hose Products

Chem Master® PLUS XLPE 250 SD



RECOMMENDED FOR: Transfer of chemical products from a supply ship to an offshore drilling rig or platform; and for transfer applications on offshore or onshore drilling rigs or platforms.

Design Factor: 5:1

Standards: ABS type approval.

Hose ID	Hose OD (in)	Max. W.P. (psi)	Vac (in Hg)	MBR (in)	Wt Per Ft (hose)		Length (ft)	Std Pack	Pkg Code	MOQ (ft)	Gates Item No
					(lbs)	(kg)					
1	1.50	250	30	5.0	0.56		200 ft	Pall	CW	Stock	4695-0933
2	2.58	250	30	10.0	1.19		200 ft	Pall	CW	Stock	4695-0934
3	3.71	250	30	18.0	2.37		200 ft	Pall	CW	Stock	4695-0935
4	4.70	250	30.1	24.0	3.05		200 ft	Pall	CW	Stock	4695-0936

Industrial Hose Products

WELL COMPLETION PRODUCTS

The Gates lineup of new well completion products are designed to stand up to the harshest applications and are built specifically to keep your operations running at maximum production.

Black Gold® Oilfield Frac 400D

Rugged construction, yet weighs 18% less than standard Oilfield Service 400D hose. Designed for transfer of multiple types of hydraulic Fracing fluids from tank trucks.

Design Factor 4:1

Tube: Nitrile

Cover: SBR for abrasion resistance



Nom ID (in)	Nom OD (in)	Working Pressure (psi)	Suction (in. Hg)	Min Bend Radius	Wt Per Ft (lbs)	Standard Pack	Product No.
4	4.78	400	10.0	30.0	2.81	100 ft	4110-0009
4	4.78	400	10.0	30.0	2.81	200 ft	4110-0010*

* Minimum order quantity 400 ft

Black Gold® Oilfield Frac 400SD

Engineered for the demands of high working pressures of hydraulic fracturing operations.

Design Factor 4:1

Tube: Nitrile

Cover: SBR for abrasion resistance



Nom ID (in)	Nom OD (in)	Working Pressure (psi)	Suction (in. Hg)	Min Bend Radius	Wt Per Ft (lbs)	Standard Pack	Product No.
4	4.78	400	30.0	38.0	3.93	100 ft	4688-2222
4	4.78	400	30.0	38.0	3.93	200 ft	4688-2223

Industrial Hose Products

WELL COMPLETION PRODUCTS

Black Gold® Oilfield Service 400D & 400D MegaTuff®, 400D UltraBration™



Engineered for the demands of high working pressures of hydraulic fracturing operations. Also available with MegaTuff® and UltraBration™ [with yellow indicator] abrasion resistant covers for use in the toughest environments.

Design Factor 4:1

Nom ID (in)	Nom OD (in)	Working Pressure (psi)	Suction (in. Hg)	Min Bend Radius	Wt Per Ft (lbs)	Standard Pack	Product No.	Product No. with MegaTuff® Cover	Product No. with UltraBration™ Cover
2	2.70	400	10.0	17.0	1.51	200 ft	4110-0715	N/A	N/A
3	3.67	400	10.0	22.0	2.14	100 ft	4110-0716	4110-1107*	4110-1109
4	4.83	400	10.0	30.0	3.43	100 ft	4110-0717	4110-1108*	4110-1110

*200 ft also available: 3" = 4110-1101, 4" = 4110-1102

UltraBration™ covers have improved abrasion resistance that resists cutting and gouging during horizontal Fracing applications where the hose rests on a conglomerate drilling pad. A yellow wear indicator layer provides visual notification.

MegaTuff® covers have improved abrasion resistance and are appropriate for Fracing applications where the hose will rest on metal surfaces like truck bumpers or high pressure lines.

Black Gold® Oilfield Service 400SD



Built for demanding suction and high pressure discharge operations. Hose has a wire helix construction to prevent collapsing in suction applications.

Design Factor 4:1

Nom ID (in)	Nom OD (in)	Working Pressure (psi)	Suction (in Hg)	Min Bend Radius	Wt Per Ft (lbs)	Standard Pack	Product No.
2	2.84	400	30.0	15.0	2.03	200 ft	4688-0590
3	4.00	400	30.0	20.0	3.66	200 ft	4688-0591
4	4.99	400	30.0	25.0	4.64	200 ft	4688-0592

Industrial Hose Products

WELL COMPLETION PRODUCTS

Black Gold® Oilfield Service (100-150) SD Frac

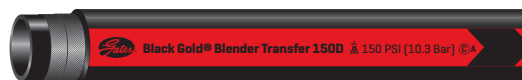
Suction and discharge hose designed to handle crude oil, salt and fresh water, tank sediments, drilling mud, and mild chemicals for oilfield applications such as Frac tank connections. Design Factor 3:1



Nom ID (in)	Nom OD (in)	Working Pressure (psi)	Suction (in Hg)	Min Bend Radius	Wt Per Ft (lbs)	Standard Pack	Product No.
8	8.74	100	30.0	24	6.54	19 ft	4688-2024
8	8.74	100	30.0	24	6.54	20 ft	4688-2025
8	8.74	100	30.0	24	6.54	50 ft	4688-2026
8	9.0	150	30.0	24	8.73	20 ft	4688-2048
8	9.0	150	30.0	24	8.73	50 ft	4688-2047

Black Gold® Blender Transfer 150D

Transfer water, petroleum based fluids, dilute acids, and abrasive slurries used in oil and gas well stimulation and hydraulic fracturing applications. Design Factor 4:1



Nom ID (in)	Nom OD (in)	Working Pressure (psi)	Wt Per Ft (lbs)	Standard Pack	Product No.
4	4.73	150	30.7	100 ft	4110-0400
5	5.73	150	3.77	100 ft	4110-0500

Industrial Hose Products

WELL COMPLETION PRODUCTS

Gates hoses in the acid-chemical product family provide suction and discharge transfer of virtually all basic acids and chemicals.

Chem Master® Modified XLPE (125-200) SD

Gates Gatron™ modified cross-linked polyethylene tube construction makes this hose the preferred choice for conveying more than 950 basic acids and chemicals. Design Factor 4:1



Nom ID (in)	Nom OD (in)	Working Pressure (psi)	Min Bend Radius	Cover Type	Wt Per Ft (lbs)	Standard Pack	Product No.
3/4*	1.25	200	4.0	Black	0.45	100 ft	4695-0002
1*	1.50	200	5.0	Black**	0.56	100 ft	4695-0003
1-1/4	1.75	200	6.0	Black	0.70	100 ft	4695-0004
1-1/2*	2.04	200	8.0	Black**	0.87	100 ft	4695-0005
2*	2.54	200	9.0	Black**	1.08	100 ft	4695-0001
2-1/2	3.05	150	12.0	Black	1.41	100 ft	4695-0006
3	3.58	150	18.0	Black**	1.81	100 ft	4695-0007
4	4.69	150	24.0	Black	2.72	100 ft	4695-0008

*Crush Resistant construction also available.

**Green cover also available.

Chem Master® UHMWPE (125-200) SD

A layer of ultra-high molecular weight polyethylene (UHMWPE) tube backed by Gatron™ makes this hose resistant to over 450 specialized acids and chemicals including oxalic acid [50%], perchloric acid [70%], and phosphoric acid [90%]. Design Factor 4:1



Nom ID (in)	Nom OD (in)	Working Pressure (psi)	Min Bend Radius	Wt Per Ft (lbs)	Standard Pack	Product No.
3/4	1.22	200	4.0	0.41	100 ft	4697-0014
1	1.47	200	5.0	0.51	100 ft	4697-0015
1-1/4	1.72	200	6.0	0.60	100 ft	4697-0016
1-1/2	2.00	200	8.0	0.78	100 ft	4697-0017
2	2.50	200	9.0	1.08	100 ft	4697-0018
2-1/2	3.01	150	12.0	1.39	100 ft	4697-0019
3	3.53	150	18.0	1.76	100 ft	4697-0020
4	4.53	150	24.0	2.49	100 ft	4697-0021

Industrial Hose Products

FUEL TRANSFER AND TANK TRUCK PRODUCTS

From oilfield service to petroleum dispensing, Gates brings you the industry's premier line of petroleum transfer hose. Make the job easier with these light weight and extremely flexible hoses.

Fuel Master® XTreme 150SD MegaFlex®

Super flexible hose, with maximum kink resistance, for the transfer of refined fuels, oils and other petroleum products where a high aromatic constant contact hose is needed. Good up to 60% aromatic content. Design Factor 4:1



Nom ID (in)	Nom OD (in)	Working Pressure (psi)	Suction (in. Hg)	Min Bend Radius	Wt Per Ft (lbs)	Standard Pack	Product No.
2	2.45	150	30.0	2.0	0.97	100 ft*	4688-2011
3	3.44	150	30.0	3.0	1.46	100 ft*	4688-2015
4	4.48	150	30.0	4.0	2.22	100 ft*	4688-2018

*200 ft standard pack also available

Fuel Master® 150SD MegaFlex®

Super flexible hose, with maximum kink resistance, for the transfer of refined fuels, oils and other petroleum products. Design Factor 4:1



Nom ID (in)	Nom OD (in)	Working Pressure (psi)	Suction (in. Hg)	Min Bend Radius	Wt Per Ft (lbs)	Standard Pack	Product No.
1	1.41	150	30.0	1.0	0.46	100 ft	4688-1732
1-1/2	1.90	150	30.0	1.5	0.65	100 ft	4688-2031
2	2.39	150	30.0	2.0	0.86	100 ft	4688-1733
3	3.44	150	30.0	3.0	1.45	100 ft	4688-1734
4	4.48	150	30.0	4.0	2.15	100 ft	4688-1735
6	6.82	150	30.0	6.0	4.00	100 ft	4688-2033

*200 ft standard pack also available

Fuel Master® 150SD LT

Ideal for tank truck, fuel farm and oil field service truck use where a super flexible cold weather fuel transfer hose is needed. Hose is flexible and crack resistant down to -65°F. Design Factor 4:1



Nom ID (in)	Nom OD (in)	Working Pressure (psi)	Suction (in. Hg)	Min Bend Radius	Wt Per Ft (lbs)	Standard Pack	Product No.
2	2.38	150	30.0	2.0	0.92	100 ft*	4688-2040
3	3.44	150	30.0	3.0	1.40	100 ft*	4688-2042
4	4.49	150	30.0	4.0	2.0	100 ft*	4688-2044

*200 ft standard pack also available

Industrial Hose Products

FUEL TRANSFER AND TANK TRUCK PRODUCTS

Varying applications require different construction features. Gates product development engineers deliver market-focused solutions to meet performance demands.

Fuel Master® 150SD

Designed for oilfield service truck use as well as transferring refined fuels, oils and other petroleum products. Design Factor 4:1



Nom ID (in)	Nom OD (in)	Working Pressure (psi)	Suction (in.Hg)	Min Bend Radius	Cover Type	Wt Per Ft (lbs)	Standard Pack	Product No.
1	1.50	150	30.0	3.0	Smooth	0.54	100 ft*	4688-1305
1-1/4	1.75	150	30.0	4.0	Smooth	0.71	100 ft*	4688-1306
1-1/2	2.02	150	30.0	4.0	Smooth	1.05	100 ft*	4688-1307
2	2.52	150	30.0	6.0	Smooth	1.34	100 ft*	4688-1308
2-1/2	3.05	150	30.0	8.0	Smooth	1.76	100 ft*	4688-1309
3	3.53	150	30.0	9.0	Smooth	2.40	100 ft*	4688-1310
4	4.62	150	30.0	12.0	Smooth	3.29	100 ft*	4688-1311
6	6.87	150	30.0	17.0	Smooth	5.91	100 ft*	4688-1465
2	2.52	150	30.0	5.0	Corrugated	1.08	100 ft*	4688-1351
3	3.53	150	30.0	8.0	Corrugated	2.67	100 ft*	4688-1352
4	4.64	150	30.0	11.0	Corrugated	3.14	100 ft*	4688-1353
6	6.87	150	30.0	17.0	Corrugated	5.91	100 ft**	4688-1612

*200 ft standard pack also available

**50 ft and 200 ft standard packs also available

Fuel Master® 100SD

Ideal for light to medium duty suction/discharge applications involving the transfer of refined fuels, oils and other petroleum products. Ideal for oilfield service truck use. Hose Design Factor 4:1



Nom ID (in)	Nom OD (in)	Working Pressure (psi)	Suction (in. Hg)	Min Bend Radius	Wt Per Ft (lbs)	Standard Pack	Product No.
2	2.48	100	30.0	4.0	1.11	100 ft*	4687-0251
3	3.50	100	30.0	6.0	1.71	100 ft	4687-0252
4	4.50	100	30.0	11.0	2.38	100 ft	4687-0253

*200 ft standard pack also available

Industrial Hose Products

OILFIELD VACUUM PRODUCTS

The workhorse in the oil and gas industry, we have expanded our vacuum hose product line to provide solutions for every application need.

Black Gold® Super-Vac® (60-150) SD MegaFlex®

When tight bends are a challenge, call on Super-Vac® MegaFlex® hoses. Same heavy duty 4:1 design as Super-Vac® with maximum [1:1] bend radius for oilfield suction and pressure applications including a 200# working pressure in 4". Design Factor 4:1



Nom ID (in)	Nom OD (in)	Working Pressure (psi)	Suction (in. Hg)	Min Bend Radius	Wt Per Ft (lbs)	Standard Pack	Product No.*
2	2.39	150	30.0	2.0	0.83	100 ft	4688-2104
3	3.47	150	30.0	3.0	1.53	100 ft	4688-2107
4	4.52	100	30.0	4.0	1.94	100 ft	4688-2108
4	4.52	200	30.0	4.0	2.12	100 ft	4688-2109

*200 ft standard pack also available

Black Gold® Super-Vac® (60-150) SD

Designed for heavy-duty waste pit and vacuum truck use in oilfield applications where a robust yet lightweight hose is required. Design Factor 4:1



Nom ID (in)	Nom OD (in)	Working Pressure (psi)	Suction (in. Hg)	Min Bend Radius	Cover Type	Wt Per Ft (lbs)	Standard Pack	Product No.
1	1.42	150	30.0	3.0	Corrugated	0.52	100 ft	4688-0651
1-1/4	1.68	150	30.0	3.0	Corrugated	0.67	100 ft	4688-0653
1-1/2	1.97	150	30.0	3.0	Corrugated	0.77	100 ft	4688-0656
2	2.47	150	30.0	4.0	Corrugated*	0.99	100 ft	4688-0665
2-1/2	2.99	150	30.0	5.0	Corrugated	1.52	100 ft	4688-0675
3	3.52	150	30.0	6.0	Corrugated*	1.89	100 ft	4688-0680
4	4.52	100	30.0	8.0	Corrugated*	2.47	100 ft	4688-0690
6	6.67	60	30.0	18.0	Corrugated	4.56	200 ft	4688-0702

*Smooth cover also available.

Black Gold® Oilfield Vacuum (100-150) SD

This medium duty hose is used in waste pit and tank truck vacuum applications and for transfer of water and dilute solutions of hydrochloric acid. Design Factor 3:1



Nom ID (in)	Nom OD (in)	Working Pressure (psi)	Suction (in. Hg)	Min Bend Radius	Cover Type	Wt Per Ft (lbs)	Standard Pack	Product No.
2	2.47	150	30.0	4.0	Corrugated	1.05	100 ft	4688-1761
3	3.52	150	30.0	6.0	Corrugated	2.17	100 ft	4688-1762
4	4.52	100	30.0	8.0	Corrugated	2.14	100 ft	4688-1763

Industrial Hose Products

WATER HOSE

Gates line of water transfer hoses are resistant to abrasion, UV, ozone, and weathering – yet lightweight and flexible.

Water Master® (100-150) SD

Medium duty water suction/discharge hose.

Design Factor 3:1



Nom ID (in)	Nom OD (in)	Working Pressure (psi)	Min Bend Radius	Wt Per Ft (lbs)	Standard Pack	Product No.
1	1.33	150	5.0	0.39	100 ft	4686-0199
1-1/4	1.61	150	5.0	0.51	100 ft	4686-0203
1-1/2	1.86	150	6.0	0.60	100 ft	4686-0204
2	2.36	150	8.0	0.76	100 ft	4686-0200
2	2.36	150	8.0	0.76	100 ft	4686-0751
2-1/2	2.96	150	10.0	1.06	100 ft	4686-0205
3	3.54	150	14.0	1.44	100 ft	4686-0201
3	3.54	150	14.0	1.44	100 ft	4686-0752
4	4.54	150	18.0	2.25	100 ft	4686-0202
4	4.54	150	18.0	2.13	100 ft	4686-0753
6	6.68	100	28.0	3.94	20 ft	4686-0207
8	9.00	100	40.0	8.81	20 ft	4686-0212
10	11.27	100	50.0	15.80	20 ft	4686-0213
12	13.27	100	60.0	18.63	20 ft	4686-0214

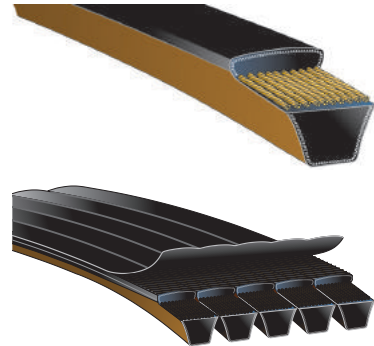
Power Transmission Products

In addition to a full line of industry leading power transmission products, Gates also provides specific application engineering support to the oil and gas industry.

Predator® V-Belts & PowerBand®

Heavy shock loads are a reality in oilfield equipment. Predator® belts feature a double-layer fabric cover which reduces friction and heat buildup increasing belt life under shock load. The chloroprene compound rubber body is oil and heat resistant and outperforms other belts in harsh operating conditions.

	Top Width	Thickness	Available Lengths	PowerBand® Strands
AP	1/2"	5/16"	33.0 - 93.0"	
BP	21/32"	13/32"	35.0 - 198.0"	
CP	7/8"	17/32"	89.0 - 257.0"	Up to 12
3VP	3/8"	21/64"	45.0 - 140.0"	Up to 10
5VP	5/8"	35/64"	60.0 - 355.0"	Up to 16
8VP	1"	7/8"	100.0 - 600.0"	Up to 12
SPBP	16mm	13mm	1260 - 8000mm	
SPCP	22mm	18mm	2000 - 9000mm	



Poly Chain® GT® Carbon™ Synchronous Belts

Poly Chain® GT® Carbon™ belt drives provide a maintenance-free power transmission solution for compressor drives. Ideal for equipment in remote locations, such as wellhead compressors.

Pitch	Width	Available Lengths
8mm	12mm	25.20 - 176.38"
	21mm	25.20 - 176.38"
	36mm	25.20 - 176.38"
14mm	62mm	25.20 - 176.38"
	20mm	39.13 - 173.62"
	37mm	39.13 - 173.62"
68mm	68mm	39.13 - 173.62"
	90mm	39.13 - 173.62"
	125mm	39.13 - 173.62"





POWERING PROGRESS™

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For more information on Gates oilfield products,
visit www.gates.com/oilfield

For in-depth technical support, contact
Gates Product Application at **303.744.5800**

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