



**Oilfield Hose
Rotary/Vibrator Drilling –
Grade D or Motion Compensator
5,000 psi W.P. – 10,000 Test – 12,500 Minimum Burst**

Black Gold®
(Specification 4774PE)

ACID-CHEMICAL
AIR AND MULTI-PURPOSE
FOOD AND BEVERAGE
MARINE
MATERIAL HANDLING
MINING
OILFIELD
PETROLEUM TRANSFER
PRESSURE WASHER
STEAM
WATER
CLAMPS
COUPLINGS AND FERRULES
HOSE FINDER
CHEMICAL RESISTANCE TABLE

Nom. I.D. (In.)	Nom. O.D. (In.)	Min. Bend Radius (In.)	Wt. per Ft. of hose (Lbs.)	Coupling Threads API (T) (In.)	Swage Coupling Wts. Each (Lbs.)	Max. length of hose (Ft.)	Max. W.P. (psi)
2 1/2	4.14	36	9.8	3"	33	90	5,000
3	4.61	48	10.8	4"	44.5	90	5,000
3 1/2	5.25	54	12.8	4"	47	90	5,000
4	5.61	54	13.4	5"	55	90	5,000
5	7.41	60	30.8	5"	160.5	90	5,000

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. Motion Compensator hose is used 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 fluids.

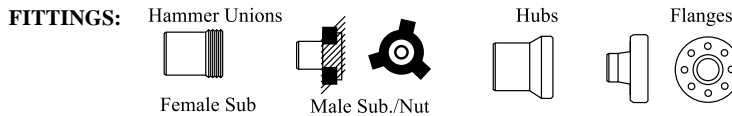
TEMPERATURE: -4°F to +180°F (-20°C to +82°C) continuous service.

CONSTRUCTION: **Tube:** Type C₃ (Modified Nitrile). 3/16" thick. Black. Specially compounded for handling abrasive, corrosive and oily drilling mud.

Reinforcement: Multiple layers of polyester cord over tube. Multiple layers of "close wound", high tensile steel cables, with one layer of adhesion fabric placed between cable layers. Multiple layers of reinforcement under cover.

Cover: Type C₄ (Modified Nitrile). Black. Specially compounded UltraBration cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather.

COUPLINGS: Swaged – API male line pipe threads standard. Gates recommends butt-welded couplings. Couplings can be supplied with your choice of end fittings. Please contact your nearest Gates E&S facility for more detailed information. (Refer to Gates E&S list at the beginning of this catalog).
NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.



PACKAGING: Each length packaged in a heavy-duty wooden crate.

BRANDING: One continuous longitudinal yellow transfer label (with serial number and code date embossed).
Example: "GATES® BLACK GOLD® ROTARY VIBRATOR 3 INCH MAX WP 5000 PSI API SPEC 7K TESTED TO 10000 PSI GRADE D FSL 1 TEMP RANGE 1 ISO 14693 LICENSE 7K-0003 MADE IN U.S.A."

CERTIFICATION/STANDARDS: API (American Petroleum Institute) Spec 7K.
Coupling/Mat'l Traceability (Additional Cost)
ISO 14693
Letter of Conformance (Additional Cost)
Test Certificates
3rd Party Witness Test (Additional Cost)
ABS/CDS Type Approval

OPTIONAL: Accessories such as SAFETY CLAMPS, HOSE LIFT EYE & COLLAR CLAMP and STAINLESS STEEL ARMOR are available.





Oilfield Hose
Rotary/Vibrator Drilling – Grade E
7,500 psi W.P. – 15,000 Test – 18,750 Minimum Burst

Black Gold®
 (Specification 4773PE)


Nom. I.D. (In.)	Nom. O.D. (In.)	Min. Bend Radius (In.)	Wt. per Ft. of hose (Lbs.)	Swage Coupling Wts. Each (Lbs.)	Max. length of hose (Ft.)	Max. W.P. (psi)
2 1/2	5.16	48	20.2	62	90	7,500
3	5.66	48	22.6	70	90	7,500
3 1/2	6.04	54	24.1	75	90	7,500
4	6.48	60	25.8	90	90	7,500

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.

TEMPERATURE: -4°F to +180°F (-20°C to +82°C) continuous service.

CONSTRUCTION: **Tube:** Type C₃ (Modified Nitrile). 3/16" thick. Black. Specially compounded for handling abrasive, corrosive and oily drilling mud.
Reinforcement: Multiple layers of polyester cord over tube. Multiple layers of "close wound", high tensile plated steel cables, with one layer of adhesion fabric placed between cable layers. Multiple layers of reinforcement under cover.
Cover: Type C₄ (Modified Nitrile). Black. Specially compounded UltraBration cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather.

COUPLINGS: Swaged – API 7K hose assemblies with working pressures exceeding 5,000 psi, the end fitting will be butt welded onto the hose coupling. Couplings can be supplied with your choice of end fitting. Please contact your nearest Gates E&S facility for more detailed information. (Refer to Gates E&S list at the beginning of this catalog).
 NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.

FITTINGS: Hammer Unions

 Female Sub Male Sub./Nut Hubs Flanges

PACKAGING: Each length packaged in a heavy-duty wooden crate.

BRANDING: One continuous longitudinal yellow transfer label (with serial number and code date embossed).
 Example: "GATES® BLACK GOLD® ROTARY VIBRATOR 3INCH MAX WP 7500 PSI API SPEC 7K TESTED TO 15000 PSI GRADE E FSL 1 TEMP RANGE 1 ISO 14693 LICENSE 7K-0003 MADE IN U.S.A."

CERTIFICATION/STANDARDS: API (American Petroleum Institute) Spec 7K.
 Coupling/Mat'l Traceability (Additional Cost)
 ISO 14693
 Letter of Conformance (Additional Cost)
 Test Certificates
 3rd Party Witness Test (Additional Cost)
 ABS/CDS Type Approval

OPTIONAL: Accessories such as SAFETY CLAMPS, HOSE LIFT EYE & COLLAR CLAMP and STAINLESS STEEL ARMOR are available.

ACID-CHEMICAL

AIR AND MULTI-PURPOSE

FOOD AND BEVERAGE

MARINE

MATERIAL HANDLING

MINING

OILFIELD

PETROLEUM TRANSFER

PRESSURE WASHER

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**Oilfield Hose
Cementing (Nitrile Tube)
5,000 psi W.P. – 10,000 Test – 12,500 Minimum Burst**

Black Gold®
(Specification 4774PE)

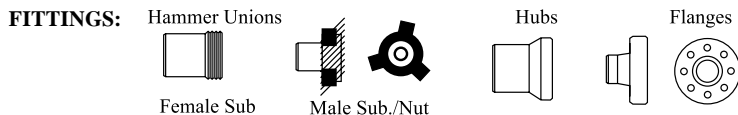
Nom. I.D. (In.)	Nom. O.D. (In.)	Min. Bend Radius (In.)	Wt. per Ft. of hose (Lbs.)	Coupling Threads API (T) (In.)	Swage Coupling Wts. Each (Lbs.)	Max. length of hose (Ft.)	Max. W.P. (psi)
2 1/2	4.14	36	9.8	3"	33	90	5,000
3	4.61	48	10.8	4"	44.5	90	5,000
3 1/2	5.25	54	12.8	4"	47	90	5,000
4	5.61	54	13.4	5"	55	90	5,000

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

TEMPERATURE: -4°F to +180°F (-20°C to +82°C) continuous service.

CONSTRUCTION: **Tube:** Type C₃ (Modified Nitrile). 3/16" thick. Black. Specially compounded for handling abrasion and corrosion.
Reinforcement: Multiple layers of "close wound", high tensile steel cables with one layer of adhesion fabric placed between cable layers. Multiple layers of reinforcement under cover.
Cover: Type C₄ (Modified Nitrile). Black. Specially compounded UltraBration cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather.

COUPLINGS: Swaged – API male line pipe threads standard. Gates recommends butt-welded couplings. Couplings can be supplied with your choice of end fittings. Please contact your nearest Gates E&S facility for more detailed information. (Refer to Gates E&S list at the beginning of this catalog).
NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.



PACKAGING: Each length packaged in a heavy-duty wooden crate.

BRANDING: One continuous longitudinal yellow transfer label (with serial number and code date embossed).
 Example: "GATES® BLACK GOLD® CEMENTING 4 INCH MAX WP 5000 PSI TESTED TO 10000 PSI FSL 0 TEMP RANGE 1 ISO 14693 LICENSE 7K-0003 MADE IN U.S.A."

CERTIFICATION/STANDARDS: API (American Petroleum Institute) Spec 7K.
 Coupling/Mat'l Traceability (Additional Cost)
 ISO 14693
 Letter of Conformance (Additional Cost)
 Test Certificates
 3rd Party Witness Test (Additional Cost)
 ABS/CDS Type Approval

OPTIONAL: Accessories such as SAFETY CLAMPS, HOSE LIFT EYE & COLLAR CLAMP and STAINLESS STEEL ARMOR are available.

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Oilfield Hose
Cementing (Nitrile Tube)
10,000 psi W.P. – 15,000 Test. – 22,500 Minimum Burst

Black Gold®
 (Specification 4773PE)

Nom. I.D. (In.)	Nom. O.D. (In.)	Min. Bend Radius (In.)	Wt. per Ft. of hose (Lbs.)	Swage Coupling Wts. Each (Lbs.)	Max. length of hose (FT)	Max. W.P. (psi)
2 1/2	5.16	48	20.2	62	90	10,000
3	5.66	48	22.6	70	90	10,000
3 1/2	6.04	54	24.1	75	90	10,000

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

TEMPERATURE: -4°F to +180°F (-20°C to +82°C) continuous service.

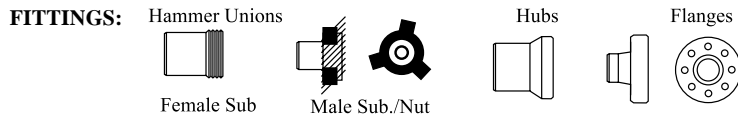
CONSTRUCTION: **Tube:** Type C₃ (Modified Nitrile). 3/16" thick. Black. Specially compounded for handling abrasion and corrosion.

Reinforcement: Multiple layers of "close wound" high tensile plated steel cables, with one layer of adhesion fabric placed between cable layers. Multiple layers of reinforcement under cover.

Cover: Type C₄ (Modified Nitrile). Black. Specially compounded UltraBration cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather.

COUPLINGS: Swaged – API 7K hose assemblies with working pressures exceeding 5,000 psi, the end fitting will be butt welded onto the hose coupling. Couplings can be supplied with your choice of end fitting. Please contact your nearest Gates E&S facility for more detailed information. (Refer to Gates E&S list at the beginning of this catalog).

NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.



PACKAGING: Each length packaged in a heavy-duty wooden crate.

BRANDING: One continuous longitudinal yellow transfer label (with serial number and code date embossed). Example: "GATES® BLACK GOLD® CEMENTING 4 INCH MAX WP 10000 PSI TESTED TO 15000 PSI FSL 0 TEMP RANGE 1 ISO 14693 LICENSE 7K-0003 MADE IN U.S.A."

CERTIFICATION/STANDARDS: API (American Petroleum Institute) Spec 7K.
 Coupling/Mat'l Traceability (Additional Cost)
 ISO 14693
 Letter of Conformance (Additional Cost)
 Test Certificates
 3rd Party Witness Test (Additional Cost)
 ABS/CDS Type Approval

OPTIONAL: Accessories such as SAFETY CLAMPS, HOSE LIFT EYE & COLLAR CLAMP and STAINLESS STEEL ARMOR are available.

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**Oilfield Hose
Cementing (Fluoroelastomer Tube)
15,000 psi W.P. – 22,500 Test – 33,750 Minimum Burst**

Black Gold®
(Specification 4758L)

Nom. I.D. (In.)	Nom. O.D. (In.)	Min. Bend Radius (In.)	Wt. per Ft. of hose (Lbs.)	Swage Coupling Wts. Each (Lbs.)	Max. length of hose (Ft.)	Max. W.P. (psi)
2 1/2	5.66	60	29.4	130	90	15,000
3	6.16	60	33.2	172	90	15,000

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

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

CONSTRUCTION: **Tube:** Type V (Fluoroelastomer). Black. Excellent resistance to abrasion and corrosion.
Reinforcement: Multiple layers of "close wound", high tensile plated steel cables to withstand flexing and high pressures encountered in offshore operations. Multiple layers of reinforcement under cover.

Cover: Type C₄ (Modified Nitrile). Black. Specially compounded UltraBration cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather.

COUPLINGS: Special Built-In supplied with your choice of end fittings. Please contact your nearest Gates E&S facility for more detailed information. (Refer to Gates E&S list at the beginning of this catalog).
NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.

FITTINGS: Hammer Unions Hubs Flanges

Female Sub Male Sub./Nut

PACKAGING: Each length packaged in a heavy-duty wooden crate.

BRANDING: One continuous longitudinal yellow transfer label (with serial number and code date embossed).
Example: "GATES® BLACK GOLD® CEMENTING 2-1/2 INCH MAX WP 15000 PSI TESTED TO 22500 PSI MADE IN U.S.A."

CERTIFICATION/STANDARDS: Coupling/Mat'l Traceability (Additional Cost)
Letter of Conformance (Additional Cost)
Test Certificates
3rd Party Witness Test (Additional Cost)

OPTIONAL: Accessories such as SAFETY CLAMPS, HOSE LIFT EYE & COLLAR CLAMP and STAINLESS STEEL ARMOR are available.

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**Oilfield Hose
Cementing (Nitrile Tube)
5,000 psi W.P. – 10,000 Test – 12,500 Minimum Burst**

Black Gold®
(Specification 4651ZL)

Nom. I.D. (In.)	Nom. O.D. (In.)	Min. Bend Radius (In.)	Wt. per Ft. of hose (Lbs.)	Crimped Coupling Wts. 1502 Hammer Union Assy.		Max. length of hose (Ft.)	Max. W.P. (psi)
				(Lbs.)			
2	2.80	36	4.63	Female Sub/Seal 7341-1569 (7.8 Lbs.)	Male Sub/Nut 7341-1571 (17.7 Lbs.)	200	5,000

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

TEMPERATURE: -4°F to +250°F (-20°C to +121°C) continuous service.

CONSTRUCTION: **Tube:** Type C (Nitrile). Black. Specially compounded for handling abrasion and corrosion.
Reinforcement: Multiple layers of spiraled high tensile steel wire.
Cover: Type A (Neoprene). Black. Oil and abrasion resistant.

COUPLINGS: Crimped – Gates GSH™ with integral 2” Fig. 1502 hammer union couplings with male sub/nut and female sub/seal. Couplings can be supplied with your choice of end fittings. Please contact your nearest Gates E&S facility for more detailed information. (Refer to Gates E&S list at the beginning of this catalog).
NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.

FITTINGS: GSH with Integral 2” Fig. 1502 Hammer Unions



PACKAGING: Each length packaged in a carton.

BRANDING: One continuous longitudinal yellow transfer label (with serial number and code date embossed).
Example: “GATES® BLACK GOLD® CEMENTING NOT FOR SOUR SERVICE 2 INCH MAX WP 5000 PSI TESTED TO 10000 PSI FSL 0 TEMP RANGE III ISO 14693 LICENSE 7K-0003 MADE IN U.S.A.”

CERTIFICATION/STANDARDS: API (American Petroleum Institute) Spec 7K.
Coupling/Mat'l Traceability (Additional Cost)
DNV Type Approval: NV D-3706
ISO 14693
Letter of Conformance (Additional Cost)
Test Certificates
3rd Party Witness Test (Additional Cost)

OPTIONAL: Accessories such as SAFETY CLAMPS are available.

ACID-CHEMICAL

AIR AND MULTI-PURPOSE

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Oilfield Hose
Cementing (Nitrile Tube)
10,000 psi W.P. – 15,000 Test – 22,500 Minimum Burst

Black Gold®
 (Specification 4651ZA)

Nom. I.D. (In.)	Nom. O.D. (In.)	Min. Bend Radius (In.)	Wt. per Ft. of hose (Lbs.)	Crimped Coupling Wts. 1502 Hammer Union Assy. (Lbs.)		Max. length of hose (Ft.)	Max. W.P. (psi)
				Female Sub/Seal 7341-1569 (7.8 Lbs.)	Male Sub/Nut 7341-1571 (17.7 Lbs.)		
2	2.80	48	4.66			200	10,000

- RECOMMENDED FOR:** Used as a flexible connection between the cementing pump manifold and cementing head for conveyance of cement slurries at high pressure.
- TEMPERATURE:** -4°F to +250°F (-20°C to +121°C) continuous service.
- CONSTRUCTION:** **Tube:** Type C (Nitrile). Black. Specially compounded for handling abrasion and corrosion.
Reinforcement: Multiple layers of spiraled high tensile steel wire.
Cover: Type L (MegaTuff®). Black. Oil and abrasion resistant.
- COUPLINGS:** Crimped – Gates GSH™ with integral 2” Fig. 1502 hammer union couplings with male sub/nut and female sub/seal. Couplings can be supplied with your choice of end fittings. Please contact your nearest Gates E&S facility for more detailed information. (Refer to Gates E&S list at the beginning of this catalog).
 NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.
- FITTINGS:** GSH with Integral 2” Fig. 1502 Hammer Unions



- PACKAGING:** Each length packaged in a carton.
- BRANDING:** One continuous longitudinal yellow transfer label (with serial number and code date embossed).
 Example: “GATES® BLACK GOLD® CEMENTING NOT FOR SOUR SERVICE 2 INCH MAX WP 10000 PSI TESTED TO 15000 PSI FSL 0 TEMP RANGE III ISO 14693 LICENSE 7K-0003 MADE IN U.S.A.”
- CERTIFICATION/STANDARDS:** API (American Petroleum Institute) Spec 7K.
 Coupling/Mat'l Traceability (Additional Cost)
 DNV Type Approval: NV D-3706
 ISO 14693
 Letter of Conformance (Additional Cost)
 Test Certificates
 3rd Party Witness Test (Additional Cost)
- OPTIONAL:** Accessories such as SAFETY CLAMPS are available.





Oilfield Hose Sour Service

5,000 psi W.P. – 10,000 Test – 12,500 Minimum Burst

Black Gold®
(Specification 4774F)

Nom. I.D. (In.)	Nom. O.D. (In.)	Min. Bend Radius (In.)	Wt. per Ft. of hose (Lbs.)	Coupling Threads API (T) (In.)	Swage Coupling Wts. Each (Lbs.)	Max. length of hose (Ft.)	Max. W.P. (psi)
2 1/2	4.15	36	10.1	3"	33	90	5,000
3	4.61	48	11.1	4"	44.5	90	5,000
3 1/2	5.25	54	13.2	4"	47	90	5,000
4	5.58	54	13.9	5"	55	90	5,000

RECOMMENDED FOR: Flexible connection between standpipe and swivel (Rotary Drilling) or between pump and standpipe (Rotary Vibrator).

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

CONSTRUCTION: **Tube:** Type V (Fluoroelastomer). Black. Resists abrasion, corrosion, oil, and up to 20% H₂S. NOTE: Hose is manufactured to handle up to 20% Hydrogen Sulfide (H₂S) for 1 hour at 93°C (200°F) at rated working pressure.
Reinforcement: Multiple layers of "close wound", high tensile steel cables, with one layer of adhesion fabric placed between cable layers. Multiple layers of reinforcement under cover.
Cover: Type C₄ (Modified Nitrile). Black. Specially compounded UltraBraid cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather.

COUPLINGS: Swaged – meets NACE MR0175. API male line pipe threads standard. Gates recommends butt-welded couplings. Couplings can be supplied with your choice of end fittings. Please contact your nearest Gates E&S facility for more detailed information. (Refer to Gates E&S list at the beginning of this catalog). NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.

FITTINGS: Hammer Unions



Female Sub



Male Sub./Nut



Hubs



Flanges



PACKAGING: Each length packaged in a heavy-duty wooden crate.

BRANDING: One continuous longitudinal yellow transfer label (with serial number and code date embossed). Example: "GATES® BLACK GOLD® SOUR SERVICE – MAX 20% H₂S 4 INCH MAX WP 5000 PSI TESTED TO 10000 PSI MADE IN U.S.A."

CERTIFICATION/STANDARDS: Coupling/Mat'l Traceability (Additional Cost)
Letter of Conformance (Additional Cost)
NACE
Test Certificates
3rd Party Witness Test (Additional Cost)

OPTIONAL: Accessories such as SAFETY CLAMPS, HOSE LIFT EYE & COLLAR CLAMP and STAINLESS STEEL ARMOR are available.

ACID-CHEMICAL

AIR AND MULTI-PURPOSE

FOOD AND BEVERAGE

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Oilfield Hose Sour Service

7,500 psi W.P. – 15,000 Test – 18,750 Minimum Burst

Black Gold® (Specification 4773LE)

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CHEMICAL RESISTANCE TABLE






Nom. I.D. (In.)	Nom. O.D. (In.)	Min. Bend Radius (In.)	Wt. per Ft. of hose (Lbs.)	Swage Coupling Wts. Each (Lbs.)	Max. length of hose (Ft.)	Max. W.P. (psi)
2 1/2	5.14	48	20.6	62	90	7,500
3	5.64	48	23.0	70	90	7,500
3 1/2	6.05	54	24.6	75	90	7,500
4	6.40	60	26.4	90	90	7,500

RECOMMENDED FOR: Flexible connection between standpipe and swivel (Rotary Drilling) or between pump and standpipe (Rotary Vibrator).

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

CONSTRUCTION: **Tube:** Type V (Fluoroelastomer). Black. Resists abrasion, corrosion, oil, and up to 20% H₂S. NOTE: Hose is manufactured to handle up to 20% Hydrogen Sulfide (H₂S) for 1 hour at 93°C (200°F) at rated working pressure.
Reinforcement: Multiple layers of "close wound", high tensile steel cables, with one layer of adhesion fabric placed between cable layers. Multiple layers of reinforcement under cover.
Cover: Type C₄ (Modified Nitrile). Black. Specially compounded UltraBriasion cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather.

COUPLINGS: Swaged – meets NACE MR0175. API 7K hose assemblies with working pressures exceeding 5,000 psi, the end fitting will be butt welded onto the hose coupling. Couplings can be supplied with your choice of end fittings. Please contact your nearest Gates E&S facility for more detailed information. (Refer to Gates E&S list at the beginning of this catalog).
NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.

FITTINGS: Hammer Unions  Hubs  Flanges 
Female Sub  Male Sub./Nut 

PACKAGING: Each length packaged in a heavy-duty wooden crate.

BRANDING: One continuous longitudinal yellow transfer label (with serial number and code date embossed). Example: "GATES® BLACK GOLD® SOUR SERVICE – MAX 20% H₂S 4 INCH MAX WP 7500 PSI TESTED TO 15000 PSI MADE IN U.S.A."

CERTIFICATION/STANDARDS: Coupling/Mat'l Traceability (Additional Cost)
Letter of Conformance (Additional Cost)
NACE
Test Certificates
3rd Party Witness Test (Additional Cost)

OPTIONAL: Accessories such as SAFETY CLAMPS, HOSE LIFT EYE & COLLAR CLAMP and STAINLESS STEEL ARMOR are available.





Oilfield Hose Choke and Kill

5,000 psi W.P. – 10,000 Test – 15,000 Minimum Burst

Black Gold®

(Specification 4774F*/4773LE**)

Nom. I.D. (In.)	Nom. O.D. (In.)	Min. Bend Radius (In.)	Wt. per Ft. of hose (Lbs.)	Swage Coupling Wts. Each (Lbs.)	Max. length of hose (Ft.)	Max. W.P. (psi)
2 1/2	4.15	36	10.1	33	90	5,000
3	4.61	48	11.1	44.5	90	5,000
3 1/2	5.25	54	13.2	47	90	5,000
4	6.40	60	26.4	90	90	5,000

RECOMMENDED FOR:

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

TEMPERATURE:

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

CONSTRUCTION:

Tube: Type V (Fluoroelastomer). Black. Resists abrasion, corrosion, oil, and up to 20% H₂S. NOTE: Hose is manufactured to handle up to 20% Hydrogen Sulfide (H₂S) for 1 hour at 93°C (200°F) at rated working pressure.

Reinforcement: Multiple layers of "close wound", high tensile steel cables, with one layer of adhesion fabric placed between cable layers. Multiple layers of reinforcement under cover.

Cover: Type C₄ (Modified Nitrile). Black. Specially compounded UltraBration cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather.

COUPLINGS:

Swaged – meets NACE MR0175. Per API – flexible Choke and Kill hose end fittings will be butt-welded and the pressure rating shall be equivalent to the pressure rating of the flexible hose. Couplings can be supplied with your choice of end fittings. Please contact your nearest Gates E&S facility for more detailed information. (Refer to Gates E&S list at the beginning of this catalog).
NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.

FITTINGS:



PACKAGING:

Each length packaged in a heavy-duty wooden crate.

BRANDING:

One continuous longitudinal yellow transfer label (with serial number and code date embossed). Example: "GATES® BLACK GOLD® CHOKE AND KILL – MAX 20% H₂S 4 INCH MAX WP 5000 PSI TESTED TO 10000 PSI MADE IN U.S.A."

CERTIFICATION/STANDARDS:

Coupling/Mat'l Traceability (Additional Cost)
Letter of Conformance (Additional Cost)
NACE
Test Certificates
3rd Party Witness Test (Additional Cost)

OPTIONAL:

Accessories such as SAFETY CLAMPS, HOSE LIFT EYE & COLLAR CLAMP and STAINLESS STEEL ARMOR are available.

ACID-CHEMICAL

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COUPLINGS AND FERRULES

HOSE FINDER

CHEMICAL RESISTANCE TABLE





**Oilfield Hose
Choke and Kill
10,000 psi W.P. – 15,000 Test – 22,500 Minimum Burst**

Black Gold®
(Specification 4773LE)

ACID-CHEMICAL
AIR AND MULTI-PURPOSE
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Nom. I.D. (In.)	Nom. O.D. (In.)	Min. Bend Radius (In.)	Wt. per Ft. of hose (Lbs.)	Swage Coupling Wts. Each (Lbs.)	Max. length of hose (Ft.)	Max. W.P. (psi)
2 1/2	5.14	48	20.6	60	90	10,000
3	5.64	48	23.0	70	90	10,000
3 1/2	6.05	54	24.6	75	90	10,000

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

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


CONSTRUCTION: Tube: Type V (Fluoroelastomer). Black. Resists abrasion, corrosion, oil, and up to 20% H₂S.
NOTE: Hose is manufactured to handle up to 20% Hydrogen Sulfide (H₂S) for 1 hour at 93°C (200°F) at rated working pressure.

Reinforcement: Multiple layers of "close wound", high tensile plated steel cables, with one layer of adhesion fabric placed between cable layers. Multiple layers of reinforcement under cover.

Cover: Type C₄ (Modified Nitrile). Black. Specially compounded UltraBration cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather.

COUPLINGS: Swaged – meets NACE MR0175. Per API – flexible Choke and Kill hose end fittings will be butt-welded and the pressure rating shall be equivalent to the pressure rating of the flexible hose. Couplings can be supplied with your choice of end fittings. Please contact your nearest Gates E&S facility for more detailed information. (Refer to Gates E&S list at the beginning of this catalog).
NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.

FITTINGS: Hammer Unions Hubs Flanges



Female Sub Male Sub./Nut

PACKAGING: Each length packaged in a heavy-duty wooden crate.

BRANDING: One continuous longitudinal yellow transfer label (with serial number and code date embossed).
 Example: "GATES® BLACK GOLD® CHOKE AND KILL – MAX 20% H₂S 3 INCH MAX WP 10000 PSI TESTED TO 15000 PSI MADE IN U.S.A."

CERTIFICATION/STANDARDS: Coupling/Mat'l Traceability (Additional Cost)
 Letter of Conformance (Additional Cost)
 Lloyds Fire Test OD/1000/499
 NACE
 Test Certificates
 3rd Party Witness Test (Additional Cost)

OPTIONAL: Accessories such as SAFETY CLAMPS, HOSE LIFT EYE & COLLAR CLAMP and STAINLESS STEEL ARMOR are available.





Oilfield Hose
Super Choke and Kill
15,000 psi W.P. – 22,500 Test – 33,750 Minimum Burst

Black Gold®
 (Specification 4758L)

Nom. I.D. (In.)	Nom. O.D. (In.)	Min. Bend Radius (In.)	Wt. per Ft. of hose (Lbs.)	Swage Coupling Wts. Each (Lbs.)	Max. length of hose (Ft.)	Max. W.P. (psi)
2 1/2	5.66	60	29.4	130	90	15,000
3	6.16	60	33.2	172	90	15,000

RECOMMENDED FOR:

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

TEMPERATURE:

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

CONSTRUCTION:

- Tube:** Type V (Fluoroelastomer). Black. Resists abrasion, corrosion, oil, and up to 20% H₂S. NOTE: Hose is manufactured to handle up to 20% Hydrogen Sulfide (H₂S) for 1 hour at 93°C (200°F) at rated working pressure.
- Reinforcement:** Multiple layers of "close wound", high tensile plated steel cables to withstand flexing and high pressures encountered in offshore operations. Multiple layers of fabric reinforcement under cover.
- Cover:** Type C₄ (Modified Nitrile). Black. Specially compounded UltraBration cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather.

COUPLINGS:

Special Built-In – meets NACE MR0175. Per API – flexible Choke and Kill hose end fittings will be butt-welded and the pressure rating shall be equivalent to the pressure rating of the flexible hose. Couplings can be supplied with your choice of end fittings. Please contact your nearest Gates E&S facility for more detailed information. (Refer to Gates E&S list at the beginning of this catalog).
 NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.

FITTINGS:



PACKAGING:

Each length packaged in a heavy-duty wooden crate.

BRANDING:

One continuous longitudinal yellow transfer label (with serial number and code date embossed).
 Example: "GATES® BLACK GOLD® SUPER CHOKE AND KILL – MAX 20% H₂S 3 INCH MAX WP 15000 PSI TESTED TO 22500 PSI MADE IN U.S.A."

CERTIFICATION/STANDARDS:

- Coupling/Mat'l Traceability (Additional Cost)
- Letter of Conformance (Additional Cost)
- NACE
- Test Certificates
- 3rd Party Witness Test (Additional Cost)

OPTIONAL:

Accessories such as SAFETY CLAMPS, HOSE LIFT EYE & COLLAR CLAMP and STAINLESS STEEL ARMOR are available.

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CHEMICAL RESISTANCE TABLE





Oilfield Hose
Rotary Decoking
5,000 psi W.P. – 10,000 Test – 12,500 Minimum Burst – Grade D

Black Gold®
 (Specification 4774PE)

Nom. I.D. (In.)	Nom. O.D. (In.)	Min. Bend Radius (In.)	Wt. per Ft. of hose (Lbs.)	Swage Coupling Wts. Each (Lbs.)	Max. length of hose (Ft.)	Max. W.P. (psi)
3	4.61	48	10.8	44.5	90	5,000
3 1/2	5.25	54	12.8	47	90	5,000
4	5.61	54	13.4	55	90	5,000

7,500 psi W.P. – 15,000 Test – 18,750 Minimum Burst – Grade E (Specification 4773PE)

Nom. I.D. (In.)	Nom. O.D. (In.)	Min. Bend Radius (In.)	Wt. per Ft. of hose (Lbs.)	Swage Coupling Wts. Each (Lbs.)	Max. length of hose (Ft.)	Max. W.P. (psi)
3	5.66	48	22.6	70	90	7,500
3 1/2	6.04	54	24.1	75	90	7,500
4	6.40	60	25.8	90	90	7,500

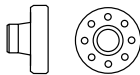
RECOMMENDED FOR: Coke is one of the by-products used in oil refining. It is stored in silos until it can be loaded into railroad cars for shipment. The coke hardens after being placed in the silos. To unload the coke from the silos, a decoking hose is attached to a drill stem which travels down the silo using warm, high-pressure water to wash the loosened coke from the silo.

TEMPERATURE: -4°F to +180°F (-20°C to +82°C) continuous service.

CONSTRUCTION: **Tube:** Type C₃ (Modified Nitrile). 3/16" thick. Black. Specially compounded for handling abrasion and corrosion.
Reinforcement: Multiple layers of polyester cord over tube. Multiple layers of "close wound", high tensile steel cables with one layer of adhesion fabric placed between cable layers. Multiple layers of reinforcement under cover.
Cover: Type C₄ (Modified Nitrile). Black. Specially compounded UltraBration cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather.

COUPLINGS: Swaged – supplied with API standard flanges or equivalent of your choice. Please contact your nearest Gates E&S facility for more detailed information. (Refer to Gates E&S list at the beginning of this catalog).
NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.

FITTINGS: Flanges



PACKAGING: Each length packaged in a heavy-duty wooden crate.

BRANDING: One continuous longitudinal yellow transfer label (with serial number and code date embossed).
 Example: "GATES® BLACK GOLD® ROTARY VIBRATOR 3 INCH MAX WP 5000 PSI API SPEC 7K TESTED TO 10000 PSI GRADE D FSL 1 TEMP RANGE 1 ISO 14693 LICENSE 7K-0003 MADE IN U.S.A."

CERTIFICATION/STANDARDS: Coupling/Mat'l Traceability (Additional Cost)
 Letter of Conformance (Additional Cost)
 Test Certificates
 3rd Party Witness Test (Additional Cost)

OPTIONAL: Accessories such as SAFETY CLAMPS, HOSE LIFT EYE & COLLAR CLAMP and STAINLESS STEEL ARMOR are available.


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Safety Clamps & Chain

For Rotary Vibrator/Drilling Hose

Grade "D" Rotary Hose or Motion Compensator Hose 5,000 psi W.P. – 10,000 Test

Nom. I.D. (In.)	 (mm)	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
2 1/2	63.5	1 Each	X	7361-0825
3	76.2	1 Each	X	7361-0830
3 1/2	88.9	1 Each	X	7361-0835
4	101.6	1 Each	X	7361-0840

Grade "E" Rotary Hose 7,500 psi W.P. – 15,000 Test

Nom. I.D. (In.)	 (mm)	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.
2 1/2	63.5	1 Each	X	7361-0835
3	76.2	1 Each	X	7361-0840
3 1/2	88.9	1 Each	X	7361-0845
4	101.6	1 Each	X	7361-0850

SAFETY CLAMP: A set of safety clamps can be obtained on special order. Location for attaching these safety clamps is shown by notations marked at each end of the assembly.

NOTE: Not Sold Separately. Additional Cost. Contact Gates E&S for pricing.



LIFT EYE

AND COLLAR: Hose lift eye and collar clamp also available. Do not use safety clamp and chain for lifting.

NOTE: Additional Cost. Contact Gates E&S for pricing.



STAINELSS STEEL ARMOR:

An external stainless steel armor shield can be supplied. Applied over the hose cover. The armor provides extra abrasion and mechanical protection for the hose, where external abuse is severe.

NOTE: Additional Cost. Contact Gates E&S for pricing.



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Oilfield Hose

**Powerbraid® Plus
(Slim Hole Rotary)**
(Specification 3670H, 4651XL, 4651 ZL)

1,500 - 3,000 Working Pressure (4651XL, 3670H)

Nom. I.D.	⊖	Nom. O.D.	⊕	Max. W.P.	⊕	Suction	⊖	Min. Bend Radius	⊕	Wt. Per Ft.	⊕	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.	List Price Per Ft.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)				
2	50.8	2.63	66.8	3000	20.68	—	—	25.0	635	2.95	1.34	50 ft.	X	3670-0655	\$100.49
2	50.8	2.63	66.8	3000	20.68	—	—	25.0	635	2.95	1.34	200 ft.	X	3670-0660	100.49
2 1/2	63.5	3.38	85.9	2500	17.24	—	—	30.0	762	3.60	1.64	50 ft.	X	3670-0656	117.06
3	76.2	3.90	99.1	2000	13.79	—	—	36.0	914	4.74	2.15	50 ft.	X	3670-0657	125.42
4	101.6	5.06	128.5	1500	10.30	—	—	48.0	1219	7.22	3.28	50 ft.	X	3670-0701	156.77

5,000 Working Pressure (4651ZL)

Nom. I.D.	⊖	Nom. O.D.	⊕	Max. W.P.	⊕	Suction	⊖	Min. Bend Radius	⊕	Wt. Per Ft.	⊕	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.	List Price Per Ft.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)				
1	25.4	1.53	38.9	5000	34.47	—	—	12.0	305	1.49	.68	200 ft.	X	3670-0665	\$69.08
1 1/4	31.8	1.97	50.0	5000	34.47	—	—	16.5	419	2.67	1.21	200 ft.	X	3670-0670	97.80
1 1/2	38.1	2.26	57.4	5000	34.47	—	—	20.0	508	3.33	1.51	200 ft.	X	3670-0675	114.08
2	50.8	2.80	71.1	5000	34.47	—	—	25.0	635	4.94	2.25	50 ft.	X	3670-0679	148.50
2	50.8	2.80	71.1	5000	34.47	—	—	25.0	635	4.94	2.25	200 ft.	X	3670-0680	148.50

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 or air. For normal air or 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 A (Neoprene). Black. 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.
4" - Use George Myer Stem and Ferrule.
71 Permanent (Mulconroy - API threads only) or reusable male couplings (Wildman - API threads only).
77 GSH® with Integral 2" Fig. 1502 Hammer Unions or 80 Gates GSP (1 1/2" or 2" only). Reference the Hose Coupling Section.
For GS couplings reference Gates Hydraulic Hose catalog #35093.
Sources: Dixon Valve and Coupling Co., George Myer Co, Inc.

PACKAGING: All sizes packaged 1 length in a carton.

BRANDING: Continuous transfer label. Example: "GATES® POWERBRAID® PLUS SLIM HOLE ROTARY 2 INCH 3000 PSI WP FLAME RESISTANT, MSHA 2G-IC-11C MADE IN U.S.A."

SPECIAL ORDER REQUIREMENTS: Special production runs require minimum order quantities of 3,000 feet for 1" and 1,800 feet for 1 1/4" through 2". For 2", 2 1/2", 3" and 4" 50 foot lengths, minimum is 600 feet. Maximum length available for 2 1/2", 3" and 4" is 50 feet.

REMNANT LENGTHS: Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

STANDARDS: **Tube:** ARPM (Class A) High oil resistance.
Cover: Meets MSHA 30 CFR 18.65. Flame resistant.

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CHEMICAL RESISTANCE TABLE





Oilfield Hose

16 EFBOP Blow-Out Preventer

(Specification 4651ZL, 4651XL)

Nom. I.D.	⌀	Nom. O.D.	⌀	Max. W.P.	⊕	Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.	List Price Per Ft.
						(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)				
1	25.4	1.53	38.9	6000	41.36	—	—	12.0	305	1.49	.68	200 ft.	X	3670-0140	\$36.80
1	25.4	1.53	38.9	5000	34.97	—	—	12.0	305	1.49	.68	200 ft.	X	3670-0141	29.67

RECOMMENDED FOR: Insert hose in all oilfield blow-out systems. This rugged hose has been tested for 5,000 psi STATIC pressure requirements.

CAUTION: Insert must be sleeved and shielded for BOP applications in accordance with applicable specifications.

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

CONSTRUCTION:
Tube: Type C (Nitrile). Black. Petroleum and Bio-degradable oil resistant.
Reinforcement: High tensile steel wire. (Minimum 4:1 design factor for static applications).
Cover: Type A (Neoprene). Black. Red lettering.
Design Factor: 4:1

COUPLINGS: Gates GlobalSpiral. Stem 16GS-16MPAPI (7347-79285), 16GS-16MPLH (7347-76545). Ferrule 16GS1F-4 (7347-03145). See the Gates Hydraulics catalog 35093.

PACKAGING: 200' per carton.

BRANDING: Continuous transfer label. Example: "GATES® ENVIROFLUID™ 16 EFBOP 5000 PSI MAX STATIC WP USE ONLY FOR BLOW OUT PREVENTER INSERT HOSE MADE IN U.S.A."

SPECIAL ORDER REQUIREMENTS: Special production runs require minimum order quantities of 3000 feet. If a special transfer label is required, contact Gates Corporation for minimum quantity.

REMNANT LENGTHS: None.

STANDARDS:
Tube: ARPM (Class A) High oil resistance.
Cover: Meets MSHA 30 CFR 18.65. Flame resistant.

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Oilfield Hose

Blender Transfer

(Specification 4110DW)

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Nom. I.D. (In.)	⊖ (mm)	Nom. O.D. (In.)	⊕ (mm)	Max. W.P. (psi)	Ⓢ (MPa)	Suction (In. Hg)	⊖ (mm Hg)	Min. Bend Radius (In.)	Ⓡ (mm)	Wt. Per Ft. (Lbs.)	⚖ (Kg)	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.	List Price Per Ft.
4	101.6	4.73	120.1	150	1.03	—	—	—	—	3.07	1.40	100 ft.	400 ft.	4110-0400	\$65.63
5	127.0	5.73	145.5	150	1.03	—	—	—	—	3.77	1.71	100 ft.	400 ft.	4110-0500	80.58

RECOMMENDED FOR: Transfer of water, petroleum based fluids, dilute acids, chemicals and abrasive slurries used in oil and gas well stimulation and fracing.

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

CONSTRUCTION: **Tube:** Type C (Nitrile). Black.
Reinforcement: Synthetic, high tensile textile.
Cover: Type A (Neoprene). Black with red spiral stripe.
Design Factor: 4:1

PACKAGING: 100' length coiled and wrapped in polyethylene.

BRANDING: Continuous transfer label. Example: "GATES® Blender Transfer 150 PSI (1.03MPa) WP Made In U.S.A."

SPECIAL ORDER REQUIREMENTS: Special production runs require minimum order quantities of 400 feet for 4" and 200 feet for 5". If a special transfer label is required, contact Gates Corporation for minimum quantity.

REMNANT LENGTHS: None.

STANDARDS: **Tube:** ARPM (Class A) High oil resistance.











Oilfield Hose

Oilfield Vacuum

(Specification 4688)

Nom. I.D.		Nom. O.D.		Max. W.P.		Suction		Min. Bend Radius		Wt. Per Ft.		Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.	List Price Per Ft.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)				
2	51.0	2.47	63.0	150	1.03	30.0	762	4.0	102	1.05	.44	100 ft.	X	4688-1761	\$17.05
3	76.0	3.52	89.0	150	1.03	30.0	762	6.0	152	2.17	.67	100 ft.	X	4688-1762	25.18
4	102.0	4.52	115.0	100	.69	30.0	762	8.0	203	2.14	.89	100 ft.	X	4688-1763	33.70
6	152.0	6.67	169.0	60	.41	30.0	762	18.0	457	4.37	1.98	100 ft.	200 ft.	4688-1764	65.95

RECOMMENDED FOR: An economical, light weight hose designed for oilfield waste pit recovery, tank truck service, including oil field vacuum truck, where full suction or rated working pressures are required. Ideal for applications handling crude oil, salt and fresh water, tank bottoms, drilling mud, dilute solutions of hydrochloric acids and sewage transfer. Reference Gates Chemical Resistance Table.

CAUTION: NOT RECOMMENDED FOR REFINED PETROLEUM PRODUCTS SUCH AS GASOLINE OR DIESEL. DRAIN HOSE AFTER USE.

TEMPERATURE: -40°F to +150°F (-40°C to +66°C) continuous service. NOTE: Diesel fuel normally conveyed below 120°F (+49°C).

CONSTRUCTION: **Tube:** Type C (Nitrile). Black.
Reinforcement: Synthetic, high tensile textile cord with steel wire helix.
Cover: Type D (SBR). Black corrugated with blue spiral stripe.
Design Factor: 3:1

COUPLINGS: 6, 7 or 78. (for ambient temperatures only). Reference the Hose Coupling Section.

PACKAGING: All lengths coiled and wrapped in polyethylene.

BRANDING: Continuous transfer label. Example: "GATES® Oilfield Vacuum 150 PSI (1.03 MPa) W.P."

SPECIAL ORDER REQUIREMENTS: If a special transfer label is required, contact Gates Corporation for minimum quantity.

REMNANT LENGTHS: None.

STANDARDS: **Tube:** ARPM (Class B) Medium oil resistance.

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CHEMICAL RESISTANCE TABLE





Oilfield Hose

Oilfield Service 400D
(Discharge)

(Specification 4110SH, 4110MT)

Neoprene (4110SH)

Nom. I.D.	⊖	Nom. O.D.	⊕	Max. W.P.	⊕	Suction	⊖	Min. Bend Radius	⊕	Wt. Per Ft.	⊕	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.	List Price Per Ft.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)				
2	50.8	2.70	68.6	400	2.76	10.0	254	17.0	432	1.51	.69	200 ft.	X	4110-0715	\$41.60
3	76.2	3.67	93.2	400	2.76	10.0	254	22.0	559	2.14	.97	200 ft.	X	4110-0716	57.78
4	101.6	4.83	122.7	400	2.76	10.0	254	30.0	762	3.43	1.56	200 ft.	X	4110-0717	72.33

MegaTuff® UHMWPE (4110MT)

Nom. I.D.	⊖	Nom. O.D.	⊕	Max. W.P.	⊕	Suction	⊖	Min. Bend Radius	⊕	Wt. Per Ft.	⊕	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.	List Price Per Ft.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)				
3	76.2	3.67	93.2	400	2.76	10.0	254	22.0	559	2.43	1.11	100 ft.	X	4110-1107	\$63.56
3	76.2	3.67	93.2	400	2.76	10.0	254	22.0	559	2.43	1.11	200 ft.	X	4110-1101	63.56
4	101.6	4.84	122.9	400	2.76	10.0	254	30.0	762	3.69	1.67	100 ft.	X	4110-1108	79.56
4	101.6	4.84	122.9	400	2.76	10.0	254	30.0	762	3.69	1.67	200 ft.	X	4110-1102	79.56

RECOMMENDED FOR: Transfer of water, petroleum based fluids, dilute acids, chemicals and abrasive slurries used in oil and gas well stimulation and fracking. Transfer of refined fuels (commercial gasoline, diesel fuel) oils and other petroleum products. Transfer hoses are designed for intermittent contact with refined fuels and must be drained after use. Ideal for offshore/onshore dock hose transfer applications involving 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.

CAUTION: Do not convey fuels over 120°F (+49°C).

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

CONSTRUCTION:
Tube: Type C (Nitrile). Black.
Reinforcement: Synthetic, high tensile textile with static wire.
Cover: Type A (Neoprene). Black with red spiral stripe. (4110SH)
 Type L (Ultrahigh Molecular Weight Polyethylene) (4110MT)

Design Factor: 4:1

COUPLINGS: 14, 15 or 71. Reference the Hose Coupling Section.

PACKAGING: 200' length coiled and wrapped in polyethylene.

BRANDING: Continuous transfer label. Example: "GATES® OILFIELD SERVICE 400D, 400 PSI (2.76MPa) WP Made In U.S.A."

SPECIAL ORDER REQUIREMENTS: Special production runs require minimum order quantities of 400 feet per size. If a special transfer label is required, contact Gates Corporation for minimum quantity.

Specific cut lengths available through the Cut Length Program. Contact Customer Service for details.

REMNANT LENGTHS: Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

STANDARDS: **Tube:** ARPMS (Class A) High oil resistance.

ACID-CHEMICAL
AIR AND MULTI-PURPOSE
FOOD AND BEVERAGE
MARINE
MATERIAL HANDLING
MINING
OILFIELD
PETROLEUM TRANSFER
PRESSURE WASHER
STEAM
WATER
CLAMPS
COUPLINGS AND FERRULES
HOSE FINDER
CHEMICAL RESISTANCE TABLE





Oilfield Hose

Oilfield Service 400SD (Suction and Discharge)

(Specification 4688SH)

Nom. I.D.	Ø	Nom. O.D.	Ø	Max. W.P.	⊕	Suction	○	Min. Bend Radius	⊕	Wt. Per Ft.	⚖	Standard Pack	Stock (X) or Minimum Order Qty.	Gates Item No.	List Price Per Ft.
(In.)	(mm)	(In.)	(mm)	(psi)	(MPa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(Lbs.)	(Kg)				
2	50.8	2.84	72.1	400	2.76	30.0	762	15.0	381	2.03	.92	200 ft.	X	4688-0590	\$57.67
3	76.2	4.00	101.6	400	2.76	30.0	762	20.0	508	3.66	1.66	200 ft.	X	4688-0591	73.97
4	101.6	4.99	126.8	400	2.76	30.0	762	25.0	635	4.64	2.11	200 ft.	X	4688-0592	87.27

RECOMMENDED FOR: Transfer of water, petroleum based fluids, dilute acids, chemicals and abrasive slurries used in oil and gas well stimulation and fracking. Transfer of refined fuels (commercial gasoline, diesel fuel) oils and other petroleum products. Transfer hoses are designed for intermittent contact with refined fuels and must be drained after use. Ideal for offshore/onshore dock hose transfer applications involving suction and discharge service for diesel oils and other similar petroleum products where an extremely lightweight, hardwall, flexible hose with a high rated working pressure and a small minimum bend radius is required. For bio-diesel and other alternative fuel applications, see 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.

CAUTION: Do not convey fuels over 120°F (+49°C).

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

CONSTRUCTION:
Tube: Type C (Nitrile). Black.
Reinforcement: Synthetic, high tensile textile with steel wire helix.
Cover: Type A (Neoprene). Black with red spiral stripe.
Design Factor: 4:1

COUPLINGS: 14, 15 or 71. Reference the Hose Coupling Section.

PACKAGING: 200' length coiled and wrapped in polyethylene.

BRANDING: Continuous transfer label. Example: "GATES® OILFIELD SERVICE 400SD, 400 PSI (2.76 MPa) WP Made In U.S.A."

SPECIAL ORDER REQUIREMENTS: Special production runs require minimum order quantities of 400 feet per size. If a special transfer label is required, contact Gates Corporation for minimum quantity. Specific cut lengths available through the Cut Length Program. Contact Customer Service for details.

REMNANT LENGTHS: Remnant lengths are sometimes available in popular sizes at a discount. Contact Gates Corporation for pricing, order requirements and availability.

STANDARDS: **Tube:** ARPM (Class A) High oil resistance.

ACID-CHEMICAL

AIR AND MULTI-PURPOSE

FOOD AND BEVERAGE

MARINE

MATERIAL HANDLING

MINING

OILFIELD

PETROLEUM TRANSFER

PRESSURE WASHER

STEAM

WATER

CLAMPS

COUPLINGS AND FERRULES

HOSE FINDER

CHEMICAL RESISTANCE TABLE

