Black Gold Hoses
Gates Black Gold®
Rotary Vibrator/Drilling Hose
5,000 psi W.P. - 10,000 psi Test Grade D
12,500 Minimum Burst

(Provided by Gates Internally Certified Fabricators – Refer to page 46 for a listing)

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

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

TUBE: Type C₄ (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 UltraBrasion cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather. One continuous longitudinal yellow transfer label (with serial number and code date embossed).

COUPLINGS: Swaged – API male line pipe threads standard. Gates recommends butt-welded couplings. Couplings can be supplied with your choice of end fitting (see “Most Commonly used Welded On Fittings” section for more detailed information).

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

FITTINGS: Hammer Unions
- Female Sub
- Male Sub./Nut

Hubs

Flanges
Gates Black Gold®
Rotary Vibrator/Drilling Hose
7,500 psi W.P. - 15,000 psi Test Grade E
18,750 Minimum Burst

Certification/Standards
API Spec 7K
ISO 14693
ABS/COS Type Approval
DNV Type Approval: NV D-3352
Test Certificates (Included)
Coupling/Material Traceability (Available)
3rd Party Witness Test (Additional Cost)

(Provided by Gates Internally Certified Fabricators – Refer to page 46 for a listing)

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**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).

**TUBE:** Type C₈ (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 UltraBrasion cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather. One continuous longitudinal yellow transfer label (with serial number and code date embossed).

**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 (see “Most Commonly used Welded-On Fittings” section for more detailed information).

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

**FITTINGS:** Hammer Unions

- Female Sub
- Male Sub./Nut

**Hubs**

**Flanges**
Gates Black Gold® Cementing Hose (With Nitrile Tube)
5,000 psi W.P. - 10,000 psi Test
12,500 Minimum Burst

Certification/Standards
API Spec 7K
ISO 14693
ABS/CDS Type Approval
Test Certificates (Included)
Coupling/Material Traceability (Available)
3rd Party Witness Test (Additional Cost)

(Provided by Gates Internally Certified Fabricators – Refer to page 46 for a listing)

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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.

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. One continuous longitudinal yellow transfer label (with serial number and code date).

COUPLINGS: Crimped – Gates GSH with integral 2” Fig. 1502 Hammer Union coupling. Couplings can be supplied with your choice of end fittings. Please contact your nearest Roughneck Distributor for more detailed information.

NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED

FITTINGS: GSH with Integral 2” Fig. 1502 Hammer Unions. Reference Industrial Hose Product/Price Catalog 39496-000.
Gates Black Gold®
Cementing Hose
(With Nitrile Tube)
5,000 psi W.P. - 10,000 psi Test
12,500 Minimum Burst

Certification/Standards
API Spec 7K
ISO 14693
ABS/CDSS Type Approval
DNV Type Approval: NV D-3372
Test Certificates (Included)
Coupling/Material Traceability (Available)
3rd Party Witness Test (Additional Cost)

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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).

TUBE: Type C₉ (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 C₉ (Modified Nitrile). Black. Specially compounded UltraErosion cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather. One continuous longitudinal yellow transfer label (with serial number and code date embossed).

COUPLINGS: Swaged – API male line pipe threads standard. Gates recommends butt-welded couplings. Couplings can be supplied with your choice of end fitting (see “Most Commonly used Welded-On Fittings” section for more detailed information).

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

FITTINGS: Hammer Unions

- Female Sub
- Male Sub./Nut

Hubs

Flanges
Gates Black Gold®
Cementing Hose
(With Nitrile Tube)
10,000 psi W.P. - 15,000 psi Test
22,500 Minimum Burst

Certification/Standards
API Spec 7K
ISO 14693
ABS/CDS Type Approval
Test Certificates (Included)
Coupling/Material Traceability (Available)
3rd Party Witness Test (Additional Cost)

(Provided by Gates Internally Certified Fabricators – Refer to page 46 for a listing)

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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.

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. One continuous longitudinal yellow transfer label (with serial number and code date).

COUPLINGS: Crimped - Gates GSH with integral 2" Fig. 1502 Hammer Union coupling. Couplings can be supplied with your choice of end fittings. Please contact your nearest Roughneck Distributor for more detailed information.

NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED

FITTINGS: GSH with Integral 2" Fig. 1502 Hammer Unions. Reference Industrial Hose Product/ Price Catalog 39496-000.
Gates Black Gold®
Cementing Hose
(With Fluoroelastomer Tube)
15,000 psi W.P. - 22,500 psi Test
33,750 Minimum Burst

Certification/Standards
Test Certificates (Included)
Coupling/Material Traceability (Available)
3rd Party Witness Test (Additional Cost)

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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).

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 fabric reinforcement under cover.

COVER: Type C₄ (Modified Nitrile). Black. Specially compounded UltraBrasion cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather. One continuous longitudinal yellow transfer label (with serial number and code date embossed).

COUPLINGS: Special Built-In supplied with your choice of end fittings, (see “Most Commonly used Welded-On Fittings” section for more detailed information).

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

FITTINGS: Hammer Unions

- Female Sub
- Male Sub./Nut

Hubs

Flanges
Gates Black Gold®
Sour Service Hose
5,000 psi W.P. - 10,000 psi Test
12,500 Minimum Burst

(Provided by Gates Internally Certified Fabricators – Refer to page 46 for a listing)

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

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

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 UltraBrasion cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather. One continuous longitudinal yellow transfer label (with serial number and code date embossed).

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 fitting (see “Most Commonly used Welded-On Fittings” section for more detailed information). NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.

FITTINGS: Hammer Unions
- Female Sub
- Male Sub/Nut

Hubs

Flanges
# Gates Black Gold® Sour Service Hose

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

## Certification/Standards
- Test Certificates (Included)
- Coupling/Material Traceability (Available)
- 3rd Party Witness Test (Additional Cost)
- NACE (Additional Cost)

## (Provided by Gates Internally Certified Fabricators – Refer to page 46 for a listing)

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**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).

**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 UltraBrasion cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather. One continuous longitudinal yellow transfer label (with serial number and code date embossed).

**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 fitting (see "Most Commonly used Welded-On Fittings" section for more detailed information). **NOTE:** FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.

**FITTINGS:** Hammer Unions

- Female Sub
- Male Sub / Nut

- Hubs

- Flanges
Gates Black Gold®
Choke and Kill Hose
5,000 psi W.P. - 10,000 psi Test
15,000 Minimum Burst

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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).

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 UltraBrasion cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather. One continuous longitudinal yellow transfer label (with serial number and code date embossed).

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 fitting (see “Most Commonly used Welded-On Fittings” section for more detailed information). NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.

FITTINGS: Hammer Unions
- Female Sub
- Male Sub/Nut

Hubs

Flanges
Gates Black Gold®
Choke and Kill Hose
10,000 psi W.P. - 15,000 psi Test
22,500 Minimum Burst

Certification/Standards
Lloyds
Fire Test OD/1000/499
Test Certificates (Included)
Coupling/Material Traceability (Available)
3rd Party Witness Test (Additional Cost)
NACE (Additional Cost)

(Provided by Gates Internally Certified Fabricators – Refer to page 46 for a listing)

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</table>

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).

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 UltraBrasion cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather. One continuous longitudinal yellow transfer label (with serial number and code date embossed).

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 of the flexible hose. Couplings can be supplied with your choice of end fittings, (see "Most Commonly used Welded-On Fittings" section for more detailed information). NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.

FITTINGS: Hammer Unions

- Female Sub
- Male Sub./Nut

Hubs

Flanges
Gates Black Gold®
Super Choke and Kill Hose
15,000 psi W.P. - 22,500 psi Test
33,750 Minimum Burst

Certification/Standards
Test Certificates (Included)
Coupling/Mat'l Traceability (Available)
3rd Party Witness Test (Additional Cost)
NACE (Additional Cost)

(Provided by Gates Internally Certified Fabricators – Refer to page 46 for a listing)

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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).

TUBE: Type V (Fluorocelastomer). 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 UltraBrasion cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather. One continuous longitudinal yellow transfer label (with serial number and code date embossed).

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, (see “Most Commonly used Welded-On Fittings” section for more detailed information).

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

FITTINGS: Hammer Unions

- Female Sub
- Male Sub./Nut
- Hubs
- Flanges
Gates Black Gold®
Decoking Hose
5,000 psi W.P. - 10,000 psi Test
12,500 Minimum Burst
7,500 psi W.P. - 15,000 psi Test
18,750 Minimum Burst

Certification/Standards
Test Certificates (Included)
Coupling/Material Traceability (Available)
3rd Party Witness Test (Additional Cost)

(Provided by Gates Internally Certified Fabricators – Refer to page 46 for a listing)

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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 water and high pressure to wash the loosened coke from the silo.

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

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 C₆ (Modified Nitrile). Black. Specially compounded UltraBrasion cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather. One continuous longitudinal yellow transfer label (with serial number and code date embossed).

COUPLINGS: Swaged – supplied with API standard flanges or equivalent of your choice.
NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.