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)

<table>
<thead>
<tr>
<th>Nom. I.D.</th>
<th>Nom. O.D.</th>
<th>Min. Bend Radius</th>
<th>Wt. per Ft. of hose</th>
<th>Coupling Threads API</th>
<th>Swage Coupling Wts. Each</th>
<th>Max. length of hose</th>
<th>Max. W.P.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(in.)</td>
<td>(in.)</td>
<td>(in.)</td>
<td>(lbs.)</td>
<td>(t) (in.)</td>
<td>(lbs.)</td>
<td>(ft)</td>
<td>(psi)</td>
</tr>
<tr>
<td>2 1/2</td>
<td>4.14</td>
<td>36</td>
<td>9.8</td>
<td>3*</td>
<td>33</td>
<td>90</td>
<td>5,000</td>
</tr>
<tr>
<td>3</td>
<td>4.61</td>
<td>48</td>
<td>10.8</td>
<td>4*</td>
<td>44.5</td>
<td>90</td>
<td>5,000</td>
</tr>
<tr>
<td>3 1/2</td>
<td>5.25</td>
<td>54</td>
<td>12.8</td>
<td>4*</td>
<td>47</td>
<td>90</td>
<td>5,000</td>
</tr>
<tr>
<td>4</td>
<td>5.61</td>
<td>54</td>
<td>13.4</td>
<td>5*</td>
<td>55</td>
<td>90</td>
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</tr>
<tr>
<td>5</td>
<td>7.41</td>
<td>60</td>
<td>30.8</td>
<td>5*</td>
<td>160.5</td>
<td>90</td>
<td>5,000</td>
</tr>
</tbody>
</table>

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 UltraBrasion 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.

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 3 INCH MAX WP 3000 PSI API SPEC 7K TESTED TO 10000 PSI GRADE D FSL TEMP RANGE 1 ISO 14693 LICENSE 7K-0003 MADE IN U.S.A.”

CERTIFICATION/STANDARDS:
API (American Petroleum Institute) Spec 7K,
Coupling/M at I Traceability (Additional Cost)
ISO 14693
Letter of Conformance (Additional Cost)
Test Certificates
3rd Party Wlness 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)

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 UltraBrasion 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 buttwelded 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).

**FITTINGS:**
- 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 ARM OR are available.

**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.

---

**Nom. I.D.** | **Nom. O.D.** | **Min. Bend Radius** | **Wt. per Ft. of hose** | **Swage Coupling Wts. Each** | **Max. length of hose** | **Max. W.P.**
--- | --- | --- | --- | --- | --- | ---
2 1/2 | 5.16 | 48 | 20.2 | 62 | 90 | 7,500
3 | 6.66 | 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
Oilfield Hose
Cementing (Nitrile Tube)
5,000 psi W.P. – 10,000 Test – 12,500 Minimum Burst

Black Gold®
(Specification 4774PE)

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 UltraBrasion 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.

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

Black Gold®
(Specification 4773PE)

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 UltraBrasion 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 buttwelded 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® 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:
- A PI (American Petroleum Institute) Spec 7K.
- Coupling/Man’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.

Recommended for:

<table>
<thead>
<tr>
<th>Nom. I.D.</th>
<th>Nom. O.D.</th>
<th>Min. Bend Radius</th>
<th>Wt. per Ft. of hose</th>
<th>Swage Coupling Wts. Each</th>
<th>Max. length of hose</th>
<th>Max. W.P.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(In.)</td>
<td>(In.)</td>
<td>(In.)</td>
<td>(Lbs.)</td>
<td>(Lbs.)</td>
<td>(Ft.)</td>
<td>(psi)</td>
</tr>
<tr>
<td>2 1/2</td>
<td>5.16</td>
<td>48</td>
<td>20.2</td>
<td>62</td>
<td>90</td>
<td>10,000</td>
</tr>
<tr>
<td>3</td>
<td>5.66</td>
<td>48</td>
<td>22.6</td>
<td>70</td>
<td>90</td>
<td>10,000</td>
</tr>
<tr>
<td>3 1/2</td>
<td>6.04</td>
<td>54</td>
<td>24.1</td>
<td>75</td>
<td>90</td>
<td>10,000</td>
</tr>
</tbody>
</table>
Oilfield Hose
Cementing (Fluoroelastomer Tube)
15,000 psi W.P. – 22,500 Test – 33,750 Minimum Burst

Black Gold®
(Specification 4758L)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
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<tr>
<td>2 1/2</td>
<td>5.66</td>
<td>60</td>
<td>29.4</td>
<td>130</td>
<td>90</td>
<td>15,000</td>
</tr>
<tr>
<td>3</td>
<td>6.16</td>
<td>60</td>
<td>33.2</td>
<td>172</td>
<td>90</td>
<td>15,000</td>
</tr>
</tbody>
</table>

**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 UltraBrasion 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).

**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® CEMENTING 2-1/2 INCH MAX WP 15000 PSI TESTED TO 22500 PSI MADE IN U.S.A."

**Certification/Standards:**
- Coupling/Matl 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.
Oilfield Hose
Cementing (Nitrile Tube)
5,000 psi W.P. – 10,000 Test – 12,500 Minimum Burst

Black Gold®
(Specification 4651ZL)

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.
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.

<table>
<thead>
<tr>
<th>Nom. I.D.</th>
<th>Nom. O.D.</th>
<th>Min. Bend Radius</th>
<th>Wt. per Ft. of hose</th>
<th>Crimped Coupling Wts.</th>
<th>Max. length of hose</th>
<th>Max. W.P.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(In.)</td>
<td>(In.)</td>
<td>(In.)</td>
<td>(Lbs.)</td>
<td>(Lbs.)</td>
<td>(Ft.)</td>
<td>(psi)</td>
</tr>
<tr>
<td>2</td>
<td>2.80</td>
<td>36</td>
<td>4.63</td>
<td>Female Sub/Seal</td>
<td>200</td>
<td>5,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7341-1569 (7.8 Lbs.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Male Sub/Nut</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7341-1571 (17.7 Lbs.)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

RECOMMENDED FOR:
Used as a flexible connection between the cementing pump manifold and cementing head for conveyance of cement slurries at high pressure.
Oilfield Hose
Cementing (Nitrile Tube)
10,000 psi W.P. - 15,000 Test - 22,500 Minimum Burst

Black Gold®
(Specification 4651ZA)

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>(In.)</td>
<td>(In.)</td>
<td>(In.)</td>
<td>(Lbs.)</td>
<td>(Lbs.)</td>
<td>(Fl.)</td>
<td>(psi)</td>
</tr>
<tr>
<td>2</td>
<td>2.80</td>
<td>48</td>
<td>4.66</td>
<td>Female Sub/Seal 7341-1569</td>
<td>200</td>
<td>10,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Male Sub/Nut 7341-1571 (7.8 Lbs.)</td>
<td></td>
<td></td>
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</tbody>
</table>

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
(Specification 4774F)

<table>
<thead>
<tr>
<th>Nom. L.D.</th>
<th>Nom. O.D.</th>
<th>Min. Bend Radius</th>
<th>Wt. per Ft. of hose</th>
<th>Coupling Threads API</th>
<th>Swage Coupling Wts. Each</th>
<th>Max. length of hose</th>
<th>Max. W.P.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(In.)</td>
<td>(In.)</td>
<td>(In.)</td>
<td>(Lbs.)</td>
<td>(1) (In.)</td>
<td>(Lbs.)</td>
<td>(Ft.)</td>
<td>(psi)</td>
</tr>
<tr>
<td>2 1/2</td>
<td>4.15</td>
<td>10.1</td>
<td>3&quot;</td>
<td>33</td>
<td>90</td>
<td>5,000</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>4.61</td>
<td>11.1</td>
<td>4&quot;</td>
<td>44.5</td>
<td>90</td>
<td>5,000</td>
<td></td>
</tr>
<tr>
<td>3 1/2</td>
<td>5.25</td>
<td>13.2</td>
<td>4&quot;</td>
<td>47</td>
<td>90</td>
<td>5,000</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>5.58</td>
<td>13.9</td>
<td>5&quot;</td>
<td>55</td>
<td>90</td>
<td>5,000</td>
<td></td>
</tr>
</tbody>
</table>

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.
- 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, 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 ARM OR are available.
Oilfield Hose
Sour Service
7,500 psi W.P. - 15,000 Test - 18,750 Minimum Burst
(Specification 4773LE)

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.
- **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 UltraBraision 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:**
- Female Sub
- Male Sub./Nut
- Hubs
- Flanges

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

**BRANDING:**
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/Material 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 ARM OR are available.

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<table>
<thead>
<tr>
<th>Nom. I.D.</th>
<th>Nom. O.D.</th>
<th>Min. Bend Radius</th>
<th>Wt. per Ft. of hose</th>
<th>Swage Coupling Wts. Each</th>
<th>Max. length of hose</th>
<th>Max. W.P.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(In.)</td>
<td>(In.)</td>
<td>(In.)</td>
<td>(Lbs.)</td>
<td>(Lbs.)</td>
<td>(FT.)</td>
<td>(psi)</td>
</tr>
<tr>
<td>2 1/2</td>
<td>5.14</td>
<td>48</td>
<td>20.6</td>
<td>62</td>
<td>90</td>
<td>7,500</td>
</tr>
<tr>
<td>3</td>
<td>5.64</td>
<td>48</td>
<td>23.0</td>
<td>70</td>
<td>90</td>
<td>7,500</td>
</tr>
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<td>3 1/2</td>
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<td>24.6</td>
<td>75</td>
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<tr>
<td>4</td>
<td>6.40</td>
<td>60</td>
<td>26.4</td>
<td>90</td>
<td>90</td>
<td>7,500</td>
</tr>
</tbody>
</table>
Oilfield Hose
Choke and Kill
5,000 psi W.P. - 10,000 Test - 15,000 Minimum Burst

Black Gold®
(Specification 4774F*/4773LE**)

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

**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 UltraBrasion 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
- 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® 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 ARM OR are available.

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

**ACID-CHENICAL**
- POWERING PROGRESS.

**AIR AND MULTI-PURPOSE**
- CHEMICAL RESISTANCE TABLE

**FOOD AND BEVERAGE**
- HOSE FINDER

**MARINE**
- PRESSURE WASHER

**MATERIAL HANDLING**
- STEAM

**MINING**
- WATER

**OILFIELD**
- CLAMPS

**PETROLEUM TRANSFER**
- COUPLINGS AND FERRULES

**POWERING PROGRESS.**
gates.com/industrialhose
Oilfield Hose
Choke and Kill
10,000 psi W.P. - 15,000 Test - 22,500 Minimum Burst

Black Gold®
(Specification 4773LE)

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</tr>
</thead>
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<td>5.14</td>
<td>48</td>
<td>20.6</td>
<td>60</td>
<td>90</td>
<td>10,000</td>
</tr>
<tr>
<td>3</td>
<td>5.64</td>
<td>48</td>
<td>23.0</td>
<td>70</td>
<td>90</td>
<td>10,000</td>
</tr>
<tr>
<td>3 1/2</td>
<td>6.05</td>
<td>54</td>
<td>24.6</td>
<td>75</td>
<td>90</td>
<td>10,000</td>
</tr>
</tbody>
</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) continuous service.

**Construction:**
- **Tube:** Type V (fluoroelastomer). Black. Resists abrasion, corrosion, oil, and up to 20% H₂S.
- **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 Ultra abrasion 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).

**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).

**Certification/Standards:**
- Coupling/Mat’tl Traceability (Additional Cost)
- Letter of Conformance (Additional Cost)
- Lloyd’s 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 ARM OR are available.
Oilfield Hose
Super Choke and Kill
15,000 psi W.P. - 22,500 Test - 33,750 Minimum Burst

Black Gold®
(Specification 4758L)

<table>
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<td>28.4</td>
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<td>90</td>
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<tr>
<td>3</td>
<td>6.16</td>
<td>60</td>
<td>33.2</td>
<td>172</td>
<td>90</td>
<td>15,000</td>
</tr>
</tbody>
</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) 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 UltraBrasion 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:
- 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® SUPER CHOKE AND KILL - MAX 20% H₂S 3 INCH MAX W.P. 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.
Oilfield Hose  
Rotary Decoking  
5,000 psi W.P. - 10,000 Test - 12,500 Minimum Burst - Grade D  
(Specification 4774PE)

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

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

<table>
<thead>
<tr>
<th>Nom. I.D.</th>
<th>Nom. O.D.</th>
<th>Min. Bend Radius</th>
<th>Wt. per Ft. of hose</th>
<th>Swage Coupling Wts. Each</th>
<th>Max. length of hose</th>
<th>Max. W.P.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(In.)</td>
<td>(In.)</td>
<td>(In.)</td>
<td>(Lbs.)</td>
<td>(Lbs.)</td>
<td>(Ft.)</td>
<td>(psi)</td>
</tr>
<tr>
<td>3</td>
<td>5.66</td>
<td>48</td>
<td>22.8</td>
<td>70</td>
<td>90</td>
<td>7,500</td>
</tr>
<tr>
<td>3 1/2</td>
<td>6.04</td>
<td>54</td>
<td>24.1</td>
<td>75</td>
<td>90</td>
<td>7,500</td>
</tr>
<tr>
<td>4</td>
<td>6.40</td>
<td>60</td>
<td>25.8</td>
<td>90</td>
<td>90</td>
<td>7,500</td>
</tr>
</tbody>
</table>

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.


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).

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-8003 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.
Oilfield Hose

Safety Clamps & Chain
For Rotary Vibrator/Drilling Hose

Grade “D” Rotary Hose or Motion Compensator Hose
5,000 psi W.P. - 10,000 Test

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>2 1/2</td>
<td>83.5</td>
<td>1 Each</td>
<td>X</td>
</tr>
<tr>
<td>3</td>
<td>76.2</td>
<td>1 Each</td>
<td>X</td>
</tr>
<tr>
<td>3 1/2</td>
<td>88.9</td>
<td>1 Each</td>
<td>X</td>
</tr>
<tr>
<td>4</td>
<td>101.6</td>
<td>1 Each</td>
<td>X</td>
</tr>
</tbody>
</table>

Grade “E” Rotary Hose
7,500 psi W.P. - 15,000 Test

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>2 1/2</td>
<td>83.5</td>
<td>1 Each</td>
<td>X</td>
</tr>
<tr>
<td>3</td>
<td>76.2</td>
<td>1 Each</td>
<td>X</td>
</tr>
<tr>
<td>3 1/2</td>
<td>88.9</td>
<td>1 Each</td>
<td>X</td>
</tr>
<tr>
<td>4</td>
<td>101.6</td>
<td>1 Each</td>
<td>X</td>
</tr>
</tbody>
</table>

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.


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.

STAINLESS 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.
# Oilfield Hose

**Powerbraid® Plus**

*(Slim Hole Rotary)*

*(Specification 3670H, 4651XL, 4651 ZL)*

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

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>2</td>
<td>50.8</td>
<td>2.63</td>
<td>66.8</td>
<td>20.68</td>
<td>—</td>
<td>—</td>
<td>25.0 635 2.95 1.34 50 ft. X</td>
<td>$100.49</td>
</tr>
<tr>
<td>2 1/2</td>
<td>63.5</td>
<td>3.36</td>
<td>85.9</td>
<td>25.0</td>
<td>—</td>
<td>—</td>
<td>25.0 635 2.95 1.34 200 ft. X</td>
<td>100.49</td>
</tr>
<tr>
<td>3</td>
<td>76.2</td>
<td>3.90</td>
<td>99.1</td>
<td>30.0</td>
<td>—</td>
<td>—</td>
<td>30.0 762 3.60 1.64 50 ft. X</td>
<td>117.06</td>
</tr>
<tr>
<td>4</td>
<td>101.6</td>
<td>5.06</td>
<td>128.5</td>
<td>48.0</td>
<td>—</td>
<td>—</td>
<td>48.0 1219 4.74 2.15 50 ft. X</td>
<td>156.77</td>
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</table>

## 5,000 Working Pressure (4651ZL)

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</thead>
<tbody>
<tr>
<td>1 1/4</td>
<td>25.4</td>
<td>1.53</td>
<td>38.9</td>
<td>5000</td>
<td>—</td>
<td>—</td>
<td>12.0 305 1.49 0.68 200 ft. X</td>
<td>$69.08</td>
</tr>
<tr>
<td>1 1/2</td>
<td>31.8</td>
<td>1.97</td>
<td>50.0</td>
<td>5000</td>
<td>—</td>
<td>—</td>
<td>16.5 419 2.67 1.21 200 ft. X</td>
<td>97.80</td>
</tr>
<tr>
<td>2</td>
<td>38.1</td>
<td>2.26</td>
<td>57.4</td>
<td>5000</td>
<td>—</td>
<td>—</td>
<td>20.0 508 3.33 1.51 200 ft. X</td>
<td>114.08</td>
</tr>
<tr>
<td>2 1/2</td>
<td>50.8</td>
<td>2.80</td>
<td>71.1</td>
<td>5000</td>
<td>—</td>
<td>—</td>
<td>25.0 635 4.94 2.25 50 ft. X</td>
<td>148.50</td>
</tr>
<tr>
<td>3</td>
<td>76.2</td>
<td>3.90</td>
<td>99.1</td>
<td>5000</td>
<td>—</td>
<td>—</td>
<td>36.0 914 4.74 2.15 50 ft. X</td>
<td>125.42</td>
</tr>
<tr>
<td>4</td>
<td>101.6</td>
<td>5.06</td>
<td>128.5</td>
<td>5000</td>
<td>—</td>
<td>—</td>
<td>48.0 1219 7.22 3.28 50 ft. X</td>
<td>156.77</td>
</tr>
</tbody>
</table>

## 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

## Recommended Lengths:

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

## Standards:

- **Tube:** A R P M (Class A) High oil resistance.
- **Cover:** Meets MSHA 30 CFR 18.65. Flame resistant.

## 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.
## Oilfield Hose

### 16 EFBOP Blow-Out Preventer

**(Specification 4651ZL, 4651XL)**

<table>
<thead>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>(In.)</td>
<td>(mm)</td>
<td>(In.)</td>
<td>(psi)</td>
<td>(In. Hg)</td>
<td>(Lbs.)</td>
<td>(psi)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>25.4</td>
<td>1.53</td>
<td>38.9</td>
<td>6000</td>
<td>41.36</td>
<td>—</td>
<td>X</td>
<td>$36.80</td>
</tr>
<tr>
<td>1</td>
<td>25.4</td>
<td>1.53</td>
<td>38.9</td>
<td>5000</td>
<td>34.97</td>
<td>305</td>
<td>149</td>
<td>$29.67</td>
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</tbody>
</table>

**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:**

**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.
**Oilfield Hose**

**Blender Transfer**

*(Specification 4110DW)*

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<td>4</td>
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<td>150</td>
<td>1.03</td>
<td>3.07</td>
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<td>145.5</td>
<td>150</td>
<td>1.03</td>
<td>3.77</td>
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</table>

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

**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.
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<tr>
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<td>15.0</td>
<td>457</td>
<td>4.37</td>
<td>198 Hg</td>
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**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.” If a special transfer label is required, contact Gates Corporation for minimum quantity.

**SPECIAL ORDER REQUIREMENTS:**
None.

**STANDARDS:**
- ARPM (Class B) Medium 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 400D
(Discharge)
(Specification 4110SH, 4110MT)

Neoprene (4110SH)

<table>
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<tr>
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<tr>
<th>Standard Pack Stock (X) or Minimum Order Qty.</th>
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<th>List Price Per Ft. (In.) (mm)</th>
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<td>4110-0717</td>
<td>72.33</td>
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MegaTuff® UHMWPE (4110MT)

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<tbody>
<tr>
<td>3</td>
<td>76.2</td>
<td>367</td>
<td>93.2</td>
</tr>
<tr>
<td>4</td>
<td>101.6</td>
<td>484</td>
<td>122.9</td>
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<table>
<thead>
<tr>
<th>Standard Pack Stock (X) or Minimum Order Qty.</th>
<th>Gates Item No.</th>
<th>List Price Per Ft. (In.) (mm)</th>
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</thead>
<tbody>
<tr>
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<td>$63.56</td>
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<tr>
<td>200 ft. X</td>
<td>4110-1108</td>
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</table>

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 (2.76M Pa) W P 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.

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.
## Oilfield Service 400SD
(Suction and Discharge)
(Specification 4688SH)

<table>
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<td>762</td>
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<tr>
<td>4</td>
<td>101.6</td>
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<td>126.8</td>
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<td>30.0</td>
<td>762</td>
<td>25.0</td>
<td>200 ft. X 4688-0592</td>
</tr>
</tbody>
</table>

**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.

**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.