Industrial Hose
Acid-Chemical Hose

**RECOMMENDED FOR:** Tank truck, barge, ship, or storage tank transfer of a variety of chemical products. Renegade The Ultrahigh Molecular Weight Polyethylene tube stock has excellent chemical resistance and is backed by Gates Garon the coupling. Renegade is designed for easy cleaning in bath containing 10% (NaOH) @ 212°F (+100°C). Cleaning in place (CIP) methods may be used. Applications include over 450 basic chemicals which are building blocks for numerous chemicals used in a variety of industries. Reference Gates Chemical Resistance Table for proper hose selection.

**TEMPERATURE:** -40°F to +212°F (-40°C to +100°C) normal service. Renegade is designed to withstand fluid temperatures to 212°F (+100°C), however the rating is dependent on the specific chemical conveyed.

**CONSTRUCTION:** Tube: Type L (Ultrahigh Molecular Weight Polyethylene). Clear, backed with Garon XLPE

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

**Cover:** Type P (EPDM). Green corrugated with yellow spiral stripe.

**MAXIMUM WORKING PRESSURE:** 125 psi (4") through 200 psi (3/4").

**PACKAGING:** 100' length coiled and wrapped in polyethylene.

**BRANDING:** Continuous transfer label. Example: "GATES® Renegade™ Acid-Chemical Suction/Discharge 200 PSI (1.38 MPa) WP Made In U.S.A. For your safety, Use Permanent Couplings above 125°F."

**SPECIAL ORDER REQUIREMENTS:** Black, red, blue and yellow covers are made to order and require minimum production order quantities of 400 feet per size. For price, add 10% (x1.10) to price. 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.

**COUPLINGS:**

- **Combination Nipple** – Swaged steel with scored or serrated shank, NPT threads same nominal size as I.D. of hose. Special plastic materials available.

- **Tri-LoK** - Machined steel insert, male NPT threads only. Hold in place with steel yoke and Band-It Jr. clamps. Insert is reusable - can be reinstalled with new yoke and clamps.
  - Source: Band-H-DEX Inc.

- **Permanent Swaged or Crimped** - NPT threads on connecting end of stem for easy flange attachment. Strong collar to anchor female to stem. Electroplated steel. Also available in stainless steel, brass and other special metals.
  - Sources: Campbell Fittings Inc., Dixon Valve & Coupling Co., Gates Corporation, George Myer Co., Inc.

- **Quick-Connecting** - The basic parts of this coupling are a bronze female shank coupler and a male adapter, which have a washer seal but no threads. These two parts fit snugly together and are held in place by two dams on the female shank coupler, which rotate against a groove in the male adapter.
  - This allows the coupling to be connected or disconnected very quickly. Adapters and dust caps are available as shown below. Standard materials are bronze or aluminum.
Air & Multi-Purpose Hose

LOL Plus – Lock-On Hose

(Specification 3264D, E, G, H, R, Y)

RECOMMENDED FOR: Petroleum-base hydraulic oils, water, glycol antifreeze solutions, hot lubricating oils, and air

NOTE: Lock-On hose and couplings are not recommended for pressure surge applications or critical applications, such as permanent piping in residential or commercial buildings. Not recommended for gasoline or diesel fuels.

TEMPERATURE: -40°F to +212°F (-40°C to +100°C) normal service. For air: 160°F (+71°C) only. For water emulsion, see Gates Hydraulic Hose Catalog #35093.

TUBE: Type C (Nitrile). Black.
Meets RMA (Class A) High oil resistance.

REINFORCEMENT: Braided, high tensile synthetic textile cord.

COVER: Type A (Neoprene). Black.
Type C₂ (Modified Nitrile). Blue, Red, Yellow, Green or Gray.
Meets RMA (Class A) High oil resistance. Flame-resistant.

MAXIMUM WORKING PRESSURE: 300 psi

AVAILABLE SIZES: 1/4" through 3/4" I.D.

LENGTHS: Standard Pack is reels.

STANDARDS: Tube: RMA (Class A)
Cover: RMA (Class A)

COUPLINGS: Lock-On - Hydraulic lock-on couplings or clamp over beaded nipple.
Source: Gates Corporation
Air & Multi-Purpose Hose

RECOMMENDED FOR: Applications requiring a premium-quality, multi-purpose hose with superior abrasion resistance for air, oil and some chemical applications. Excellent durability for extra long life in these applications: mining, air drill, construction, poultry plants and other severe service. Excellent weather and ozone resistance.

TEMPERATURE: -40°F to +212°F (-40°C to +100°C) continuous service.

CONSTRUCTION: Tube: Type C (Nitrile). Black. Meets RMA (Class A) High oil resistance.
Reinforcement: Synthetic, high tensile textile cord.
Cover: Type C (Carboxylated Nitrile). Yellow.

MAXIMUM WORKING
PRESSURE: 501 psi

AVAILABLE SIZES: 1/4" through 2" I.D.
LENGTHS: 1/4" through 1 1/4" I.D. Standard Pack is reels.
1 1/2" and 2" I.D. 100 ft. lengths.

STANDARDS: Tube: RMA (Class A)
Cover: RMA (Class A)
MSHA

COUPLINGS:
Up through 1/2” only - Standard Air Hose - Machined brass with serrated shank, NPTF threads on hex solid male and on hex solid female and NPSM threads on hex swivel female.


Up through 1” with bands, up through 1/2” with ferrules

Cast Brass Short Shank - Cast brass, serrated shank, hex swivel female with washer, solid male, GHT threads, 3/4” – 1 1/2.

Sources: A P G, J.C. Gadd Co., Seal-Fast Inc

Machined Brass Short Shank - Machined brass, serrated shank. Each set has round swivel female and solid male, GHT, washer seal. Octagon nut male and female.


Long Shank - Case brass, serrated shank, set has hex male and hex swivel female coupling with a washer seal. Threads are GHT or NPSM.

Sources: A P G, Dixon Valve & Coupling Co., Seal-Fast Inc.

Gates MegaCrimp® - NPT threads on connecting end of stem for easy flange attachment. Electroplated steel. The "C" insert assures an even distribution of crimping forces to form a concentric seal.

Source: Gates Corporation
Air & Multi-Purpose Hose

**Premo Flex®**
(Specification 3205R)

**RECOMMENDED FOR:** Applications requiring a premium grade spiral hose with excellent flexibility and maximum resistance to air, water, petroleum oils and lubricating oils (to 212°F). Recommended for gasoline, kerosene and fuel oil transfer only (to 120°F). Excellent weather and ozone resistance.

**TEMPERATURE:** -40°F to +212°F (-40°C to +100°C)

**CONSTRUCTION:**
- **Tube:** Type C (Nitrile) Black. Meets RMA (Class A) High oil resistance.
- **Reinforcement:** Synthetic, high tensile textile cord.
- **Cover:** Type C₂ (Modified Nitrile) Red. Meets RMA (Class B) Medium oil resistance.

**MAXIMUM WORKING PRESSURE:** 260 psi (1 1/2") through 315 psi (1/4").

**AVAILABLE SIZES:** 3/16" through 1 1/2" I.D.

**LENGTHS:** Standard Pack is reels.

**STANDARDS:**
- **Tube:** RMA (Class A)
- **Cover:** RMA (Class A)

**COUPLINGS:**
**Up through 1/2" only - Standard Air Hose** - Machined brass with serrated shank, NPTF threads on hex solid male and on hex solid female and NFPM threads on hex swivel female.


**Up through 1" with bands, up through 1/2" with ferrules**

- **Cast Brass Short Shank** – Cast brass, serrated shank, hex swivel female with washer, solid male, GHT threads, 3/4 – 11 1/2.


- **Machined Brass Short Shank** - Machined brass, serrated shank. Each set has round swivel female and solid male, GHT, washer seal, octagon nut male and female.


- **Long Shank** - Case brass, serrated shank, set has hex male and hex swivel female coupling with a washer seal. Threads are GHT or NFPM.


- **Tri-Lokt** - Machined steel insert, male NPT threads only. Held in place with steel yoke and Band-It Jr. clamps. Insert is reusable - can be reinstalled with new yoke and clamps.

Source: Band-It-IDE Inc.

- **Interlocking Ground Joint** - Malleable iron swivel. Inserts and spud may be either steel or malleable iron. All parts are cadmium plated. Male and female threads both NPT with same nominal size as hose ID. Ground joint between spud and female insert. Available with 2 and 4-bolt clamps.


- **Interlocking Washer Joint** - Malleable iron swivel. Insert and spud may be either malleable iron or steel. All parts are cadmium plated. Female thread in spud is NPT with same nominal size as hose ID. Washer joint between insert and spud. Available with 2 and 4-bolt clamps.

Source: Campbell Fittings Inc., Dixon Valve & Coupling Co., P-T Coupling Co.
Air & Multi-Purpose Hose

RECOMMENDED FOR: Applications requiring maximum flexibility and good resistance to air, water and heat. For SAE oils intermittent contact only.

TEMPERATURE: -40°F to +200°F (-40°C to +93°C) continuous service.

CONSTRUCTION: Tube: Type B, (Specially compounded elastomer). Black. Meets RMA (Class B) Medium oil resistance.
Reinforcement: Synthetic, high tensile textile cord.
Cover: Type P (EPDM). Red. All sizes through 1/2" have perforated cover. (Black cover available on special order).

MAXIMUM WORKING PRESSURE: 250 psi (1 1/2") through 300 psi (1/4").

AVAILABLE SIZES: 1/4" through 1 1/2" I.D.

LENGTHS: Standard Pack is reels.

STANDARDS: Tube: RMA (Class B)

COUPLINGS:
Up through 1/2" only - Standard Air Hose - Machined brass with serrated shank, NPTF threads on hex solid male and on hex solid female and NPSM threads on hex swivel female.

Sources: American Coupling Co., A P G Lenz Inc., National Coupling Co.
Anderson Fittings, Dixon Valve & Coupling Co., Plews-Schneider

Up through 1/4" with bands, up through 1/2" with ferrules.

Cast Brass Short Shank - Cast brass, serrated shank, hex swivel female with washer, solid male, GHT threads, 3/4" – 11 1/2.


Machined Brass Short Shank - Machined brass, serrated shank. Each set has round swivel female and solid male, GHT, washer seal. Octagon nut male and female.


Long Shank - Cast brass, serrated shank, set has hex male and hex swivel female coupling with a washer seal. Threads are GHT or NPSM.

Sources: A P G, Dixon Valve & Coupling Co., Seal-Fast Inc.
Hot Air Drill Hose

**Scorpion™**
(Specification 3618MT)

**RECOMMENDED FOR:** High pressure and high temperature air hose used on industrial, construction, pneumatic mining and drilling applications requiring a wire braided hose with a high degree of hot air resistance.

**TEMPERATURE:** -40°F to +275°F (-40°C to +135°C).

**CONSTRUCTION:** Tube: Type J (CPE). Black.
Reinforcement: Braided, high tensile steel wire.
Cover: Type J (CPE). Black. All sizes perforated.

**MAXIMUM WORKING PRESSURE:** 600 psi

**PACKAGING:** 50' per carton +/- 10'. Maximum of 2 pieces. Minimum length 10'.

**BRANDING:** Continuous transfer label. Example: "GATES® Scorpion™ Hi-Temp Air Drill 600PSI (4.13 MPa) WPI Made In U.S.A."

**SPECIAL ORDER REQUIREMENTS:** Special production runs require minimum order quantities of 600 feet per size. If a special transfer label is required, contact Gates Corporation for minimum quantity.

**REMNANT LENGTHS:** None.

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

**COUPLINGS:**

- **Interlocking, Ground Joint** - Maleable iron swivel. Inserts and spud may be either steel or maleable iron. All parts are cadmium plated. Male and female threads both NPT with same nominal size as hose ID. Ground joint between spud and female insert. Available with 2 and 4-bolt clamps.
  
  **Source:** A-P-G, Dixon Valve & Coupling Co., Seal-Fast Inc., P-T Coupling Co.

- **Interlocking, Washer Joint** - Maleable iron swivel. Insert and spud may be either maleable iron or steel. All parts are cadmium plated. Female thread in spud is NPT with same nominal size as hose ID. Washer joint between insert and spud. Available with 2 and 4-bolt clamps.
  
  **Source:** Dixon Valve & Coupling Co., Campbell Fittings Inc., P-T Coupling Co.

- **Universal Quick Acting** - Cast maleable iron with cadmium plate, cast bronze. Washer seal between two quick-acting heads. Several types of heads are available, but all have same-size attaching heads regardless of hose size. Fingers lock together with quarter-turn rotation.
  
  **Source:** A-P-G, Campbell Fittings Inc., Dixon Valve & Coupling Co., P-T Coupling Co., Seal-Fast Inc.
Hot Air Drill Hose

Scorpion™ X-Treme

(Specification 3618HT)

RECOMMENDED FOR: High pressure and high temperature air hose used on industrial, construction, pneumatic mining and drilling applications requiring a wire braided hose with extremely high temperature hot air and hot oil resistance.

TEMPERATURE: -40°F to +300°F (-40°C to +149°C).

CONSTRUCTION:
- **Tube:** Type B1 (Specially compounded elastomer). Black.
- **Reinforcement:** Braided, high tensile steel wire.
- **Cover:** Type J (CPE). Black. All sizes perforated.

MAXIMUM WORKING
- **PRESSURE:** 600 psi
- **PACKAGING:** 50′ per carton +/- 10′. Maximum of 2 pieces. Minimum length 10′.

BRANDING: Continuous transfer label. Example: “GATES Scorpion™ X-Treme Hi-Temp Air Drill 600PSI (4.13 MPa) WPI Made In U.S.A.”

SPECIAL ORDER REQUIREMENTS: Special production runs require minimum order quantities of 600 feet per size. If a special transfer label is required, contact Gates Corporation for minimum quantity.

REMNANT LENGTHS: None.

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

COUPLINGS:
- **Interlocking, Ground Joint** - Malleable iron swivel. Inserts and spud may be either steel or malleable iron. All parts are cadmium plated. Male and female threads both NPT with same nominal size as hose ID. Ground joint between spud and female insert. Available with 2 and 4-bolt clamps.
  **Source:** APG, Dixon Valve & Coupling Co., Seal-Fast Inc., P-T Coupling Co.

- **Interlocking, Washer Joint** - Malleable iron swivel. Insert and spud may be either malleable iron or steel. All parts are cadmium plated. Female thread in spud is NPT with same nominal size as hose ID. Washer joint between insert and spud. Available with 2 and 4-bolt clamps.
  **Source:** Dixon Valve & Coupling Co., Campbell Fittings Inc., P-T Coupling Co.

- **Universal Quick Acting** - Cast malleable iron with cadmium plate, cast bronze. Washer seal between two quick-acting heads. Several types of heads are available, but all have same-size attaching heads regardless of hose size. Fingers lock together with quarter-turn rotation.
  **Source:** APG, Campbell Fittings Inc., Dixon Valve & Coupling Co., P-T Coupling Co., Seal-Fast Inc.
Material Handling Hose 609W Dry Cement Delivery
(Specification 3129F, H, L)

RECOMMENDED FOR: Pneumatic transfer of bulk cement and other dry bulk materials.

TEMPERATURE: -40°F to +150°F (-40°C to +66°C).

CONSTRUCTION: Tube: Type D (Natural Rubber). Black. Static conductive.
   Reinforcement: Synthetic, high tensile textile.
   Cover: Type D (SBR). Black with gray spiral stripe.

MAXIMUM WORKING
PRESSURE: 20 psi (6 5/8") through 60 psi (4").

AVAILABLE SIZES: 3" through 6 5/8" I.D. with 1/8" tube.
   4" I.D. with 3/16" or 1/4" tube.

LENGTHS: 100 ft. lengths.

COUPLINGS:

Brass Pin Lug – Cast brass shank and swivel, shank is serrated, NPSM threads in female and
   male, with washer seal. Sizes under 3" have lugs on female only.
   Source: A.P.G., Dixon Valve & Coupling Co., P-T Coupling Co.

Combination Nipple – Swaged steel with scored or serrated shank, NPT threads same nominal
   size as I.D. of hose. Special plastic materials available.
   Martin Brass Works Inc., P-T Coupling Co., Seal-Fast Inc.

Quick-Connecting - The basic parts of this coupling are a bronze female shank coupler and a
   male adapter; which have a washer seal but no threads. These two parts fit snugly together and are
   held in place by two dams on the female shank coupler, which rotate against a groove in the male
   adapter.
   This allows the coupling to be connected or disconnected very quickly. Adapters and dust caps are
   available as shown below. Standard materials are bronze or aluminum.
   Sources: A.P.G., Dixon Valve Coupling Co., OPW Engineered Systems, P-T Coupling Co., Scully
   Signal Co., Seal-Fast Inc.
Petroleum Transfer Hose

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

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.

MAXIMUM WORKING PRESSURE: 150 psi

AVAILABLE SIZES: 4" and 5" I.D.

LENGTHS: 4" and 5" I.D. 100 ft. lengths.

STANDARDS: Tube: RMA (Class A)

COUPLINGS:

Brass Pin Lug – Cast brass shank and swivel, shank is serrated. NPSM threads in female and male, with washer seal. Sizes under 3" have lugs on female only.
Source: A P G, Dixon Valve & Coupling Co., P-T Coupling Co.

Combination Nipple – Swaged steel with scored or serrated shank, NPT threads same nominal size as I.D. of hose. Special plastic materials available.

Quick-Connecting - The basic parts of this coupling are a bronze female shank coupler and a male adapter, which have a washer seal but no threads. These two parts fit snugly together and are held in place by two dams on the female shank coupler, which rotate against a groove in the male adapter.
This allows the coupling to be connected or disconnected very quickly. Adapters and dust caps are available as shown below. Standard materials are bronze or aluminum.
Petroleum Transfer Hose

Fuel Oil Delivery
(Specification 3221FR)

RECOMMENDED FOR: Transferring fuel oils or commercial gasolines in applications at temperatures as low as -40°F (-40°C). Hose remain flexible to -20°F (-29°C). For home and commercial service where a non-marking cover is required.

TEMPERATURE: -40°F to +180°F (-40°C to +82°C) continuous service. NOTE: Gasoline is normally conveyed below 120°F (+49°C).

CONSTRUCTION: Tube: Type C (Nitrile). Black. 
Reinforcement: High tensile synthetic textile cord. 
Cover: Type C4 (Carboxylated Nitrile), Red. Non-marking.

MAXIMUM WORKING PRESSURE: 200 psi

PACKAGING: 1” through 1 3/8”: Cut lengths: Packaged one each in a carton. 
1 1/2”: Cut lengths: Packaged one length coiled and shrink wrapped on a pallet.

BRANDING: Continuous ink print label. Example: “GATES® Fuel Oil Delivery/Gasoline 1 1/2 inch (38.1mm) 200 PSI (1.38MPa) WP Made In U.S.A.”

SPECIAL ORDER REQUIREMENTS: Special production runs require minimum order quantities of 25,000 feet for all sizes.

REMNANT LENGTHS: None.

STANDARDS: Tube: RMA (Class A) High oil resistance.

COUPLINGS:

Quick-Connecting - The basic parts of this coupling are a bronze female shank coupler and a male adapter, which have a washer seal but no threads. These two parts fit snugly together and are held in place by two dams on the female shank coupler, which rotate against a groove in the male adapter. This allows the coupling to be connected or disconnected very quickly. Adapters and dust caps are available as shown below. Standard materials are bronze or aluminum.

Petroleum Transfer Hose

Longhorn®
(Specification 4688CC, DC)

RECOMMENDED FOR: Transfer of refined fuels (commercial gasoline, diesel fuel and Bio-Diesel fuel), oils and other petroleum products. Ideal for oilfield service truck use. Transfer hoses are designed for intermittent contact with refined fuels and must be drained after use.

TEMPERATURE: -40°F to +180°F (-40°C to +82°C). Warning: Do not convey fuels over 120°F (+49°C).

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

MAXIMUM WORKING PRESSURE: 150 psi

AVAILABLE SIZES: 1” through 4” I.D. Smooth Cover
2” through 6” I.D. Corrugated Cover

LENGTHS: 1” through 4” I.D. 100 ft. lengths.
8” I.D. 50 ft. lengths.

STANDARDS: Tube: RMA (Class A)

COUPLINGS:

Combination Nipple - Swaged steel with scored or serrated shank, NPT threads same nominal size as I.D. of hose. Special plastic materials available.

Internal Expansion Brass - Body is forged brass. Female is cold-drawn copper alloy. Male coupling has NPT threads, female swivel coupling has NP'SI threads. All threads same nominal size as hose I.D. except 1 3/8” I.D. size, which has 1 1/2 – 11 1/2 threads. On 1 1/2” and larger sizes, female has special tightening lugs.
Sources: Dixon Valve & Coupling Co., ProGrip Co., United Metal Industries, Inc.

Crimp Sleeves - Available in plated steel, 316 stainless steel and aluminum. Suitable for replacing band clamps when using pin lug, combination nipple or cam and groove stems. Working pressures are determined by the type of couplings and hose used.
Sources: Campbell Fittings Inc., Dixon Valve & Coupling Co., P-T Coupling Co.

Quick Connecting - The basic parts of this coupling are a bronze female shank coupler and a male adapter, which have a washer seal but no threads. These two parts fit snugly together and are held in place by two dams on the female shank coupler, which rotate against a groove in the male adapter. This allows the coupling to be connected or disconnected very quickly. Adapters and dust caps are available as shown below. Standard materials are bronze or aluminum.
Petroleum Transfer Hose

Super-Vac®
(Specification 4688V)

RECOMMENDED FOR: Tank truck service, including oilfield 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, diesel fuels and sewage transfer. **NOTE:** NOT RECOMMENDED FOR REFINED PETROLEUM PRODUCTS SUCH AS GASOLINE.

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

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

MAXIMUM WORKING PRESSURE: 60 psi (6”) through 150 psi (1”).

AVAILABLE SIZES: 1” through 6” I.D.

LENGTHS: 1” through 4” I.D. 100 ft. lengths. 6” I.D. 20 ft. and 50 ft. lengths.

STANDARDS: Tube: RMA (Class B)

COUPLINGS:

**Combination Nipple** – Swaged steel with scored or serrated shank, NPT threads same nominal size as I.D. of hose. Special plastic materials available.

**Malleable Iron Pin Lug** – Malleable iron shank and swivel with serrated shank, cadmium plated. NPSM threads in male and female, washer seal. Pin lugs on female only.

**Malleable Iron Pin Lug** – The basic parts of this coupling are a bronze female shank coupler and a male adapter, which have a washer seal, but no threads. These two parts fit snuggly together and are held in place by two dams on the female shank coupler, which rotate against a groove in the male adapter. This allows the coupling to be connected or disconnected very quickly. Adapters and dust caps are available as shown below. Standard materials are bronze or aluminum.

**Crimp Sleeves** – Available in plated steel, 316 stainless steel and aluminum. Suitable for replacing band clamps when using pin lug, combination nipple or cam and groove stems. Working pressures are determined by the type of couplings and hose used.
Sources: Campbell Fittings Inc., Dixon Valve & Coupling Co., P-T Coupling Co.

**Quick Connecting** - The basic parts of this coupling are a bronze female shank coupler and a male adapter, which have a washer seal, but no threads. These two parts fit snuggly together and are held in place by two dams on the female shank coupler, which rotate against a groove in the male adapter. This allows the coupling to be connected or disconnected very quickly. Adapters and dust caps are available as shown below. Standard materials are bronze or aluminum.
Petroleum Transfer Hose

Sea Horse® 400
Fuel Transfer
(Specification 4110SH)

RECOMMENDED FOR: 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 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.

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.

MAXIMUM WORKING PRESSURE: 400 psi

AVAILABLE SIZES: 2” through 4” I.D.

LENGTHS: 200 ft. lengths.

STANDARDS: Tube: RMA (Class A)

COUPLINGS:

Permanent Swaged or Crimped - NPT threads on connecting end of stem for easy flange attachment. Strong collar to anchor ferrule to stem. Electroplated steel. Also available in stainless steel, brass and other special metals.

Sources: Campbell Fittings Inc., Dixon Valve & Coupling Co., Gates Corporation, George Myer Co., Inc.
Petroleum Transfer Hose

Sea Horse®
Fuel Transfer
(Specification 4110SS)

RECOMMENDED FOR: Transfer of refined fuels (commercial gasoline, diesel fuel and Bio-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 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.

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.

MAXIMUM WORKING
PRESSURE: 300 psi

AVAILABLE SIZES: 2" through 5" I.D.

LENGTHS: 200 ft. lengths.

STANDARDS: Tube: RMA (Class A)

COUPLINGS:

Permanent Swaged or Crimped - NPT threads on connecting end of stem for easy flange attachment. Strong collar to anchor ferrule to stem. Electroplated steel. Also available in stainless steel, brass and other special metals.
Sources: Campbell Fittings Inc, Dixon Valve & Coupling Co, Gates Corporation, George Myer Co., Inc.

Internal Expansion-Brass - For 2" & 2 1/2" ID Only - Body is forged brass. Ferrule is cold alloy. Male coupling has NPT threads, female swivel coupling has NPSH threads. All threads same nominal size as hose I.D. On 1 1/2" and larger sizes, female has special tightening lugs.
Sources: Dixon Valve & Coupling Co, ProGrip Co, United Metal Industries, Inc.
Petroleum Transfer Hose

Sea Horse®
Fuel Transfer
(Specification 4110SS)

RECOMMENDED FOR: Transfer of refined fuels (commercial gasoline, diesel fuel and Bio-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 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.

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.

MAXIMUM WORKING PRESSURE: 300 psi

AVAILABLE SIZES: 2” through 5” I.D.

LENGTHS: 200 ft. lengths.

STANDARDS: Tube: RMA (Class A)

COUPLINGS:

Permanent Swaged or Crimped - NPT threads on connecting end of stem for easy flange attachment. Strong collar to anchor ferrule to stem. Electroplated steel. Also available in stainless steel, brass and other special metals.
Sources: Campbell Fittings Inc, Dixon Valve & Coupling Co, Gates Corporation, George Myer Co., Inc.

Internal Expansion-Brass - For 2” & 2 1/2” ID Only - Body is forged brass. Ferrule is cold alloy. Male coupling has NPT threads, female swivel coupling has NPSH threads. All threads same nominal size as hose I.D. On 1 1/2” and larger sizes, female has special tightening lugs.
Sources: Dixon Valve & Coupling Co, ProGrip Co, United Metal Industries, Inc.
Petroleum Transfer Hose  Sea Horse® HW
Fuel Suction/Discharge—Hardwall
(Specification 4808SS)

RECOMMENDED FOR: Transfer of refined fuels (commercial gasoline, diesel fuel and Bio-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 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.

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.

MAXIMUM WORKING PRESSURE: 200 psi (6") through 300 psi (2").

AVAILABLE SIZES: 2” through 6” I.D.

LENGTHS: 2” through 4” I.D. 200 ft. lengths.
6” I.D. 100 ft. lengths.

STANDARDS: Tube: RMA (Class A)

COUPLINGS:
Permanent Swaged or Crimped - NPT threads on connecting end of stem for easy flange attachment. Strong collar to anchor ferrule to stem. Electroplated steel. Also available in stainless steel, brass and other special metals.

Sources: Campbell Fittings Inc., Dixon Valve & Coupling Co., Gates Corporation, George Myer Co., Inc.
Petroleum Transfer Hose  Trident® 400/Seahorse 400 SW  
(Specification 3156B)

RECOMMENDED FOR: Water, air and petroleum product transfer applications where a lightweight, flexible hose in long lengths is required. Note: For fuels, use a petroleum transfer hose with a Type C (Nitrile) tube.

TEMPERATURE: -30°F to +158°F (-34°C to +70°C) continuous service.

CONSTRUCTION: Tube: Type A (Neoprene). Black.
Reinforcement: Synthetic, high tensile textile.
Cover: Type A (Neoprene). Black with blue spiral stripe for high visibility.

MAXIMUM WORKING PRESSURE: 400 psi

AVAILABLE SIZES: 2" through 4" I.D.

LENGTHS: 200 ft. lengths.

STANDARDS: Tube: RMA (Class B)

COUPLINGS:

Permanent Swaged or Crimped - NPT threads on connecting end of stem for easy flange attachment. Strong collar to anchor ferrule to stem. Electroplated steel. Also available in stainless steel, brass and other special metals. All sizes.

Sources: Campbell Fittings Inc., Dixon Valve & Coupling Co., Gates Corporation, George Myer Co., Inc.
Steam Hose

205MB Steam King®

(Specification 3605)

RECOMMENDED FOR: All types of steam — saturated and superheated — up to 250 PSI and +160°F (+71°C).

NOTE: DO NOT ALTERNATE USE BETWEEN STEAM AND WATER.

TEMPERATURE: -40°F to +450°F (-40°C to +232°C) continuous service.

CONSTRUCTION: Tube: Type P₂ (EPDM). Black.
Reinforcement: Braided, high tensile steel wire.
Cover: Type P₂ (EPDM). Black. All sizes are perforated.

MAXIMUM WORKING PRESSURE: 250 psi

AVAILABLE SIZES: 3/8” through 2” I.D.

LENGTHS: 3/8” I.D. through 1” I.D. reels.
3/8” I.D. through 2” I.D. 60 ft. lengths.
3/4” I.D. 50 ft. length assemblies.

COUPLINGS:

Interlocking, Ground Joint - Malleable iron swivel. Inserts and spud may be either steel or malleable iron. All parts are cadmium plated. Male and female threads both NPT with same nominal size as hose ID. Ground joint between spud and female insert. Available with 2 and 4-bolt clamps.

Interlocking, Washer Joint - Malleable iron swivel. Insert and spud may be either malleable iron or steel. All parts are cadmium plated. Female thread in spud is NPT with same nominal size as hose ID. Washer joint between insert and spud. Available with 2 and 4-bolt clamps.
Source: Dixon Valve & Coupling Co., Campbell Fittings Inc., P-T Coupling Co.

NOTE: 3/4” x 50’ permanent crimped assemblies are available.
Oilfield Hoses
Oilfield Hose

16 EFBOP
Blow-Out Preventer
(Specification 4651XL, 4651ZL)

Certification/Standards
DNV
MSHA
SAE
USCG
This product can be tested to meet other oilfield related certificates/standards.

Recommended for: Insert hose in all oilfield blow-out systems. This rugged hose has been tested for 5,000 psi static pressure requirements. **Note:** Insert must be sleeved and shielded for B.O.P. applications in accordance with applicable specifications.

**Temperature:** -40°F to +250°F (-40°C to +121°C).

**Tube:** Type C (Nitrile). Black. Oil resistant synthetic rubber.

**Reinforcement:** Four alternating layers of spiraled, high tensile steel wire over a layer of fabric.

**Cover:** Type A (Neoprene). Black. Oil resistant synthetic rubber. Special longitudinal red stripe for easy identification.

**Maximum Working Pressure:** 5,000 psi

**Available Sizes:** 1” I.D. only.

**Lengths:** Standard Pack - 200 ft. coiled and tied.

**Couplings:** Gates Global Spiral Couplings

![GS Male](GS Male Image)

![GS Ferrule](GS Ferrule Image)
Oilfield Hose

16 EFBOP
Blow-Out Preventer
(Specification 4651XL, 4651ZL)

Certification/Standards
DNV
MSHA
SAE
USCG
This product can be tested to meet other oilfield related certificates/standards.

Insert hose in all oilfield blow-out systems. This rugged hose has been tested for 5,000 psi static pressure requirements. **NOTE:** Insert must be sleeved and shielded for B.O.P. applications in accordance with applicable specifications.

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

**TUBE:** Type C (Nitrile). Black. Oil resistant synthetic rubber.

**REINFORCEMENT:** Four alternating layers of spiraled, high tensile steel wire over a layer of fabric.

**COVER:** Type A (Neoprene). Black. Oil resistant synthetic rubber. Special longitudinal red stripe for easy identification.

**MAXIMUM WORKING PRESSURE:** 5,000 psi

**AVAILABLE SIZES:** 1” I.D. only.

**LENGTHS:** Standard Pack - 200 ft. coiled and tied.

**COUPLINGS:** Gates GlobalSpiral Couplings

GS Male

GS Ferrule
Oilfield Hose

Powerbraid® Plus EF

(Specification 4651XL, 4651ZL – For 3,000 and 5,000 psi)

Certification/Standards
DNV
MSHA
SAE
USCG
This product can be tested to meet other oilfield related certificates/standards.

RECOMMENDED FOR: Rotary hose applications on work over rigs and slim hole or seismograph rigs designed to operate at a maximum of 3,000 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.

TUBE: Type C (Nitrile). Black.
RMA (Class E) Medium oil resistance.

REINFORCEMENT: High tensile steel wire.

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

MAXIMUM WORKING 5,000 psi 1”, 1-1/4”, 1-1/2” and 2”
PRESSURE: 3,000 psi 2” static

AVAILABLE SIZES: 1” through 2” I.D.

LENGTHS: 50 ft. and 200 ft. lengths.

COUPLINGS: Gates GlobalSpiral, GSP, GSH Couplings

Permanent Swaged or Crimped 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 A reusable couplings (not shown).
(API threads only)

SOURCES: Dixon Valve & Coupling Co.
George Myer Company, Inc.

George Myer
Oilfield Hose

Powerbraid® Plus

(Specification 3670H – For 1,500 to 2,500 psi)

RECOMMENDED FOR: Rotary hose applications on work over rigs and slim hole or seismograph rigs designed to operate at a maximum of 1,500 to 2,500 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.

TUBE: Type C (Nitrile). Black. Specially compounded to provide high resistance to oil, abrasion and heat.

REINFORCEMENT: High tensile steel wire.

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

MAXIMUM WORKING PRESSURE:
2,500 psi 2 1/2”
2,000 psi 3”
1,500 psi 4”

AVAILABLE SIZES: 2 1/2”, 3” and 4” I.D.

LENGTHS: 50 ft. maximum. 600 ft. minimum order.

COUPLINGS: Permanent Swaged or Crimped 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 A reusable couplings (not shown). (API threads only)

SOURCES: Dixon Valve & Coupling Co.
George Myer Company, Inc.

George Myer