Tube Trailer Hoses

Specifically designed for use in tube trailer discharge or as a flexible line to cylinder manifolds, these zero permeation hoses meet the purity requirements of laser gases. The close-packed corrugated stainless steel inner core offers extreme flexibility, while a single piece extended braid ring and heavy duty 316L Stainless Steel end fittings provide durable service and a long life. All hoses are cased in stainless steel armor to protect the hose from kinking, braid abrasion, and stress at the ends.

Ordering Information

Part Number	Length (ft)	Weight (lbs.)
529-0260	12'	11.5
529-0261	18'	23
529-0262	24'	34.5

Materials and Specifications

- **Materials of Construction**
  316 stainless steel (inner core)
  304 stainless steel (double heavy duty braid)
  302 stainless steel (armor casing)
  316L stainless steel (end fittings)
- **End Connections**
  ½" MPT x ½" FPT
- **Diameter**
  .500 inches inner diameter
  1.25 inches outer diameter
- **Maximum Operating Pressure**
  3,500 PSIG (245 BAR)
- **Minimum Burst Pressure**
  14,000 PSIG (980 BAR)
- **Centerline Bend Radius**
  5.0"
- **Temperature Range**
  -450°F to 1500°F (-265°C to 815°C)
- **Oxygen Service**
  Cleaned to CGA G4.1 specifications

Flexible Hoses

With an inner core and end fittings of 316l Stainless Steel, this metal hose provides an all-welded, zero permeation and flexible alternative to pipe and tubing in laser purity gas applications, even at cryogenic temperatures. The metal-lined hose is reinforced with two layers of type 321 stainless steel braid to provide maximum protection and flexibility. All hoses are encased in stainless steel armor to protect the hose from kinking, braid abrasion, and stress at the ends.

Materials and Specifications

- **Maximum Working Pressure**
  3,000 PSIG (210 BAR)
- **Diameter**
  .250 inches inner diameter
  .72 inches outer diameter
- **Minimum Bend Radius**
  3.0"
- **Temperature Range**
  -450°F to 1500°F (-265°C to 815°C)
- **Oxygen Service**
  Cleaned to CGA G4.1 specifications

Ordering Information

Part Number	Connections	Length (in.)	Weight (lbs.)	Core	Casing
529-0031-CON	¼" MPT x CON *	36"	0.9	Stainless Steel	Stainless Steel Armor
529-0044-CON	¼" MPT x CON*	36"	0.9	PTFE	Stainless Steel Braid
529-0088-CON	¼" MPT x CON *	36"	0.9	PTFE	Stainless Steel Armor
529-0089-540	¼" MPT x CON *	72"	1.8	PTFE	Stainless Steel Armor
529-0055-CON	¼" MPT x CON *	72"	1.8	Stainless Steel	Stainless Steel Armor
529-0094-CON	¼" MPT x CON *	72"	1.8	PTFE	Stainless Steel Armor
529-0272-CON	¼" MPT x CON *	72"	1.8	PTFE	Stainless Steel Braid
529-0256-CON	¼" MPT x CON *	144"	3.6	Stainless Steel	Stainless Steel Armor

* Please specify

High Pressure Flexible Hoses

The non-porous characteristics of PTFE and its chemically inert properties coupled with zero maintenance requirements make these high pressure flexible hoses ideal for high pressure laser applications. Custom-machined end fittings with stainless steel locking collars and a 304 stainless steel reinforcing braid provide highly durable assembly with excellent flexibility. All hoses are encased in stainless steel armor to protect the hose from kinking, braid abrasion, and stress at the ends.

Ordering Information

Part Number	Connections	Length (in.)	Weight (lbs.)
529-0058-CON	¼" MPT x CON *	36"	0.24
529-0258-CON	¼" MPT x CON *	72"	0.48
529-0259-CON	¼" MPT x CON *	144"	0.96
551-0310	¼" MPT x ¼" FPT	36"	0.24
551-0323	¼" MPT x ¼" FPT	72"	0.48
551-0318	¼" MPT x ¼" FPT	144"	0.96

* Please specify

Materials and Specifications

- **4,500 PSIG (310 BAR)**
  Maximum working pressure
- **Materials of Construction**
  316L (inner core)
  304 stainless steel (braid)
  304 stainless steel (armor casing)
  316L stainless steel (end fittings)
- **Diameter**
  .229 inches inner diameter
  .560 inches outer diameter
- **Minimum Bend Radius**
  3.0"
- **Temperature Range**
  -100°F to 450°F (-73°C to 232°C)
- **Oxygen Service**
  Cleaned to CGA G4.1 specifications

Liquid Cylinder Hoses

Specifically designed to connect a liquid cylinder to an external vaporizer, these all-stainless hoses offer complete flexibility, durability, and fast cool-down. Machined end connections and a long collar extend the hose life, and low profile corrugations provides faster filling, lower pressure drop and less product loss. Full armor casing protects the hose from abrasion and damage.

Ordering Information

Part Number	Connections	Length (in.)	Weight (lbs.)
529-0245	CGA 440 (⅝" Flare) Liquid oxygen	48"	2.2
529-0246	CGA 440 (⅝" Flare) Liquid oxygen	60"	2.8
529-0247	CGA 440 (⅝" Flare) Liquid oxygen	72"	3.4
529-0248	CGA 440 (⅝" Flare) Liquid oxygen	120"	5.8
529-0249	CGA 440 (⅝" Flare) Liquid oxygen	144"	7.0
529-0250	CGA 295 (½" Flare) Liquid nitrogen and argon	48"	2.2
529-0251	CGA 295 (½" Flare) Liquid nitrogen and argon	60"	2.8
529-0252	CGA 295 (½" Flare) Liquid nitrogen and argon	72"	3.4
529-0253	CGA 295 (½" Flare) Liquid nitrogen and argon	120"	5.8
529-0254	CGA 295 (½" Flare) Liquid nitrogen and argon	144"	7.0

Materials and Specifications

- **Materials of Construction**
  321 stainless steel (inner core)
  304 stainless steel (braid)
  304 stainless steel (armor casing)
  304L stainless steel (end fittings)
- **End Connections**
  CGA (flare) x CGA (flare)
- **Diameter**
  .500 inches inner diameter
  1.00 inches outside diameter
- **Maximum Operating Pressure**
  1,000 PSIG (70 BAR)
- **Minimum Burst Pressure**
  5,000 PSIG (350 BAR)
- **Minimum Bend Radius**
  3.25"
- **Temperature Range**
  -450°F to 1500°F (-265°C to 815°C)
- **Oxygen Service**
  Cleaned to CGA G4.1 specifications