

Accessories HOSES

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.

The non-porous characteristics of stainless steel 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.

Materials & Specifications

Maximum Working Pressure

3000 PSIG (210 BAR)
4500 PSIG (310 BAR)

Materials of Construction

316L (inner core)
304 stainless steel (braid)
304 stainless steel (armor casing)
316L stainless steel (end fittings)

Bend

3" (braided)
4" (armor casing)

Temperature Range

-100°F to 450°F (-73°C to 232°C)

Oxygen Service

Cleaned to CGA G4.1 specifications

Ordering Information

Part Number	Connections	Length	Weight	Core	Casing
5290031-01-CON	¼" MPT x CON*	36" (900mm)	0.9 (0.4kg)	Stainless Steel	Stainless Steel Armor
5290044-01-CON	¼" MPT x CON*	36" (900mm)	0.9 (0.4kg)	PTFE	Stainless Steel Braid
5290088-01-CON	¼" MPT x CON*	36" (900mm)	0.9 (0.4kg)	PTFE	Stainless Steel Armor
5290055-01-CON	¼" MPT x CON*	72" (1800mm)	1.8 (0.8kg)	PTFE	Stainless Steel Armor
5290094-01-CON	¼" MPT x CON*	72" (1800mm)	1.8 (0.8kg)	Stainless Steel	Stainless Steel Armor
5290272-01-CON	¼" MPT x CON*	72" (1800mm)	1.8 (0.8kg)	PTFE	Stainless Steel Armor
5290256-01-CON	¼" MPT x CON*	144" (3700mm)	3.6 (1.6kg)	Stainless Steel	Stainless Steel Armor
5290058-01-CON	¼" MPT x CON	36" (900mm)	0.9 (0.4kg)	Stainless Steel	Stainless Steel Armor
5290258-01-CON	¼" MPT x CON	72" (1800mm)	1.8 (0.8kg)	Stainless Steel	Stainless Steel Armor
5290259 01-CON	¼" MPT x CON	144" (3700mm)	3.6 (1.6kg)	Stainless Steel	Stainless Steel Armor

*Please specify cylinder connection; CGA, DIN 471, BS 341, and others available

†Maximum working pressure 4500 PSIG (310 BAR)