

LifeGuard™ Safety Hose

For Corrosive Service

Model LGS

LifeGuard all-stainless steel pigtails permit gas users to safely transfer corrosive gases and mixtures that are compatible with the materials of construction. The pigtail design protects against the hazardous effects of high-pressure hose rupture, pull-apart and failure.

LifeGuard utilizes a unique, patent-pending design that eliminates the potential for disaster through use of an internal compression spring device connected to specially designed, normally unseated valves located on each end of the spring. In the event of hose separation, stretching to the point of an unsafe condition or coupling-to-hose separation, the valves are released and then instantly seat, stopping the flow in both directions.

Model LGS features a double overbraid, with NPTF end fittings heliarc-welded to both the convoluted stainless steel inner liner and the overbraid. They are available in various lengths, with or without safety loops (tethers), and a variety of end fittings including CGA-installed.

Benefits/Features

Patented design stops flow in both directions if hose fails.

All hoses cleaned for oxygen service.

Passive system with no need of human interaction to engage.

Inherent dangers from hazardous spills and hose whipping are eliminated.

Stainless steel construction for excellent corrosion and diffusion resistance.

Safety loop models feature tethers on both ends, adding a double safety system to secure hose and prevent hose whipping at high pressures.

Product is identified with I.D. tags for pressure rating, part number and date of manufacture.

Specifications

Operating Pressure:
3500 psig (241 bar) maximum

Diameter:
¼" Hoses: 0.25" nominal ID, 0.64" nominal OD
½" Hoses: 0.50" nominal ID, 1.02" nominal OD

End Fittings: See table below

Length: See table below

Overbraid: Double-braided

Approximate Weight:
¼" Hoses: 0.26 lbs. per foot
½" Hoses: 0.87 lbs. per foot

Materials of Construction

End Fittings: Type 316 Stainless Steel

Internal Safety Cable:
Type 316 Stainless Steel

Internal Valve, Retainer, Snap Ring:
Type 316 Stainless Steel

Innecore: Type 316 Stainless Steel

Overbraid: Type 304 Stainless Steel

Safety Loops: 7 x 7 Galvanized Steel



Double Braid All-Metal Construction



Integrated cable restraint (tethers) on each end standard with safety loop models only.



Open Flow (valves open)



Coupling Ejection (valves seated)

Model LGSN – ¼" Hoses

Model Number		Length	
		inches	centimeters
¼" NPT Female x ¼" NPT Female	¼" NPT Male x ¼" NPT Female		
QLGSN024	QLGSN024MF	24	61
QLGSN036	QLGSN036MF	36	91
QLGSN048	QLGSN048MF	48	122
QLGSN060	QLGSN060MF	60	152
QLGSN072	QLGSN072MF	72	183

Model LGSN8 – ½" Hoses

Model Number	Length	
	feet	centimeters
½" NPT Female x ½" NPT Female		
QLGSN83	3	91
QLGSN86	6	183
QLGSN810	10	305
QLGSN815	15	457
QLGSN820	20	610

Model LGS – ¼" Hoses with Safety Loops (Tethers)

Model Number*		Length	
		inches	centimeters
¼" NPT Female x ¼" NPT Female	¼" NPT Male x ¼" NPT Female		
QLGS024	QLGS024MF	24	61
QLGS036	QLGS036MF	36	91
QLGS048	QLGS048MF	48	122
QLGS060	QLGS060MF	60	152
QLGS072	QLGS072MF	72	183

*Optional CGA Connection: To order a pigtail with a single CGA connection installed, add the appropriate Compressed Gas Association connection number at the end of the part number (i.e. QLGS036-580). Please order by complete model number.

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