



- **Surge flow compatible**
- **Low profile**
- **Lightweight design**
- **Oxygen compatible**

Application:

Carleton's Riser Line Shut-Off Valve (part number B43902-1) is an integral part of an aircraft's gaseous passenger emergency oxygen system. The valve, or flow fuse, serves to isolate a section of the emergency oxygen system in the event of a severed distribution line. The flow fuse activates when the oxygen flow exceeds the normal operating levels. By isolating the damaged section, the remaining areas of the emergency system remain operational.

Carleton's low profile Riser Line Shut-Off Valve has been qualified for use and is original equipment (OEM) on large commercial aircraft.

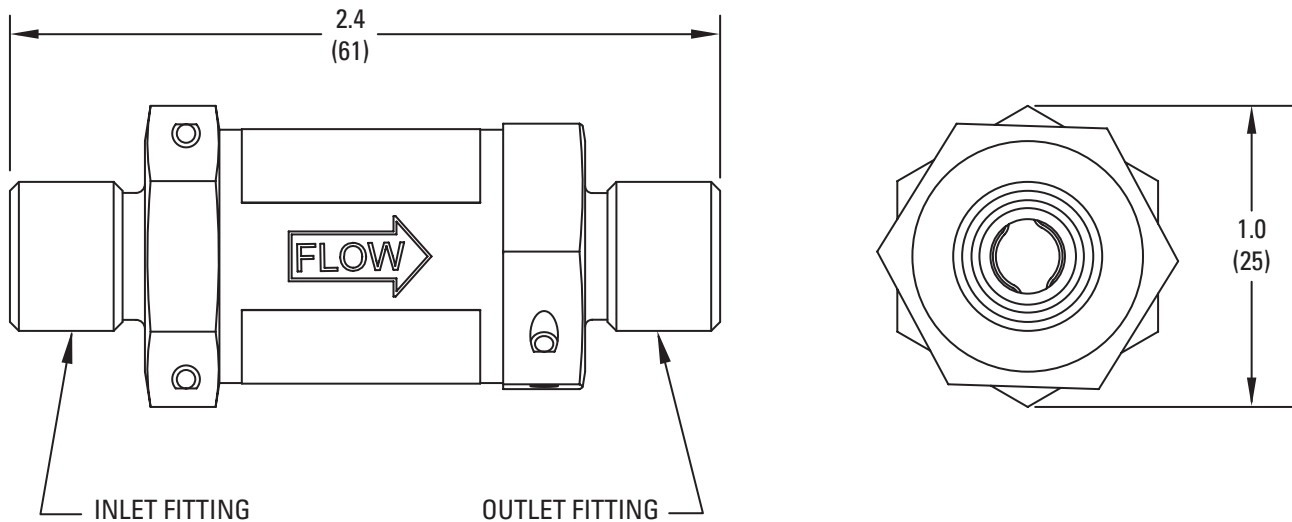
Features:

The Riser Line Shut-Off Valve features a self-centering, floating seat design. The valve can flow up to 264 slpm to the downstream masks without closing. A damping ullage provides protection against closure during the centralized flow control unit surge function.

The valve design maximizes oxygen safety while providing reliable, high performance operation.

SPECIFICATIONS

Shut-Off Valve Part Number: B43902



All dimensions in inch (mm)

Specifications:

Weight	0.081 lb max	(.037 kg)
Inlet Pressure	0 to 125 psig	(0 to 8.6 barg)
Flow	264 slpm maximum	
DeltaP Shut-Off Range	9 to 13 psid	(0.62 to 0.91 bard)
Pressure Drop	3.5 psid @ 56 slpm	
Media	Gaseous Oxygen per MIL-PRF-27210	

Operating Environment:

Storage Temperature	5 to 158 deg F	(-15 to 70 deg C)
Operating Temperature	-67 to 185 deg F	(-55 to 85 deg C)
Humidity	0 to 100% relative humidity	
Shock	9 g sustained	20 g crash
Vibration	5.83 Grms each axis	
Altitude	41,000 ft max	(12,497 m)

Product Interfaces:

Inlet	MS 33514G-5
Outlet	MS 33514G-5