



- Oxygen safe design
- Fill rate control
- Low maintenance
- Integral filters

Application:

Carleton's B42782 filler valve manifold is an integral component in military aircraft oxygen life support systems. The filler valve interfaces with the oxygen system to allow controlled recharging of the oxygen storage vessels.

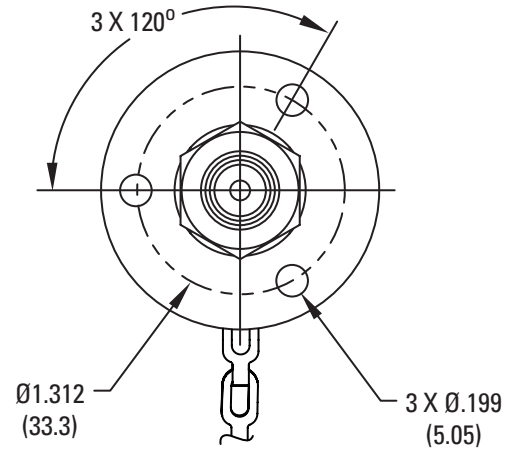
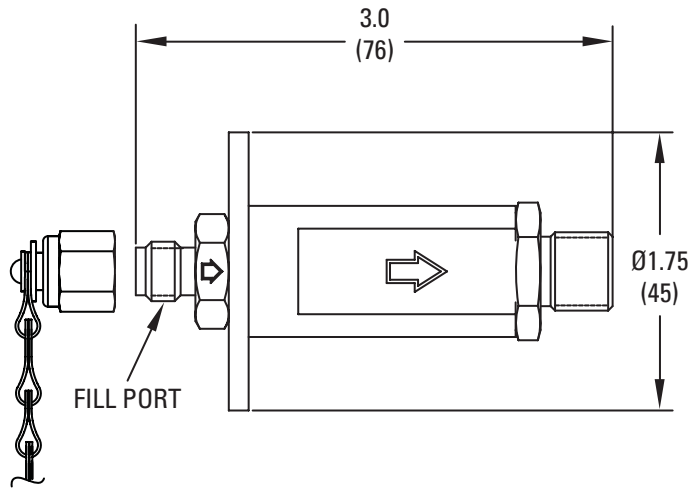
Carleton's filler valve manifold has been qualified for use and is used as OEM equipment on the P-3 Orion Maritime Surveillance Aircraft.

Features:

Carleton's B42782-1 filler valve manifold offers many advantages over the metal to metal seal assembly currently installed on the P-3. The design of the Carleton valve reduces the system refilling maintenance by using an oxygen safe composite valve seal which lowers the leakage to 100 times less than the current valve. To increase oxygen safety during the fill process, a built-in flow restrictor limits oxygen flow. The filler valve can be removed from the manifold and replaced without disconnecting aircraft tubing, further reducing the maintenance costs.

SPECIFICATIONS

Filler Valve Part Number: B42782-1



All dimensions in inch (mm)

Specifications:

Operating Pressure	0 to 3,000 psig	(0 to 206.8 barg)
Flow	67 slpm max at 2,000 psid	
Operating Altitude	0 to 40,000 ft	(0 to 12,192 m)
Weight	0.3 lb	(0.14 kg)
Pressure Drop	Cv = 0.01	
Internal leakage	1.0 cc/hr at pressures from 50 to 3,000 psig	

Operating Environment:

Temperature	-65 to 165 deg F	(-54 to 74 deg C)
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Product Interfaces:

Fill Port	MS22066 (3/8-24 UNF-3A)
Outlet	Flareless tube connections, MS33514E5