

Raft Inflation Valve Assembly

COBHAM

P/N: B44800

The most important thing we build is trust



The Cobham Raft Inflation Valve (part number B44800) is an integral part of raft inflation systems. The inflation valve is a mechanically actuated cable pull device that discharges gas through a single outlet port.

This valve is used to inflate emergency life rafts on a variety of commercial aircraft. It has been qualified to and is compliant with Technical Standard Order (TSO) C70 (life rafts).

The inflation valve utilizes a simple cable pull to activate flow and incorporates a hemi-spherical pull capability. Actuation pull forces range from 20 to 30 pounds, over a temperature range of

-40 to 160 deg F, with a bottle pressure of 3,300 psig at 70 deg F. The cable can be easily reinstalled and the valve quickly reset for actuation without the need for disassembly.

The activation cable is connected to a lever which, when rotated approximately 90 degrees by the pull of the cable, pushes a poppet device away from its seat thereby releasing the gas from an attached vessel. The poppet is a pressure-closing style which assures the least amount of pressure decay over long periods of time. The valve is a "dump" style and does not incorporate a regulator in the design.

Key Features

- Resettable
- Single outlet port
- Lightweight
- Low cost

Specifications

Operating Pressure	3,300 psig	(228 bar)
Actuation Force	30 lbs pull max	20 lbs pull min
Discharge Rate	Equivalent to supply pressure through 0.133 dia. orifice	
Weight	1.4 lbs max	(0.64 kg)
Proof Pressure	4,950 psig	(341 bar)
Burst Pressure	8,250 psig	(569 bar)
Media	Nitrogen, Air, Carbon Dioxide/Nitrogen mix, Air/Carbon Dioxide mix	
Leakage	0.002 gram/hour at 3,300 psig (N ₂)	
Safety Device	Limit pressure to: 4,950 psig (341.3 bar)	

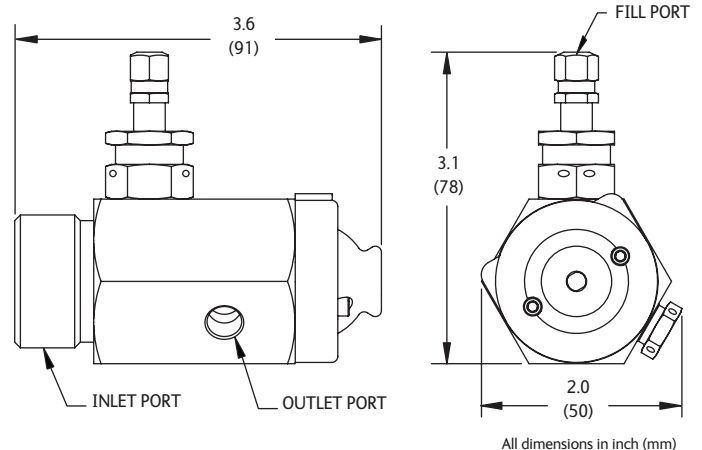
Operating Environment

Temperature	-40 to 160 deg F	(-40 to 71 deg C)
Humidity	IAW MIL-STD-810F, Paragraph 507.2, Procedure 1	
Sand and Dust	IAW MIL-STD-810F Paragraph 510.2, Procedure 1	
Salt Fog	IAW MIL-STD-810F Paragraph 509.2, Procedure 1	

Fungus	Resistant
Vibration	13.5 Grms each axis
Linear Acceleration	9 g for 30 seconds
Mechanical Shock	IAW MIL-STD-810F Paragraph 516.5, Procedure 1, 20 g for 11 ms

Product Interfaces

Outlet	.125-27 NPT Outlet
Bottle Connection	AS4395-14 or MS33656-12 Modified (1.3125 UN-3A Thread)
Pressure Gage Port	.125-27 NPT



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