CARLETON

B43575-1
OXYGEN PRESSURE REDUCER

- **Lightweight, compact design**
- **High flow**
- **Precise pressure control**
- **Integral pressure transducer**
- **Integral fill/check valve**

Application:

Carleton's Oxygen Pressure Reducer is an integral part of a gaseous aircraft emergency passenger oxygen system. The valve mounts directly to the cylinder and hand valve, and provides a regulated pressure supply to an altitude compensated Centralized Flow Control Unit for distribution to the passenger masks.

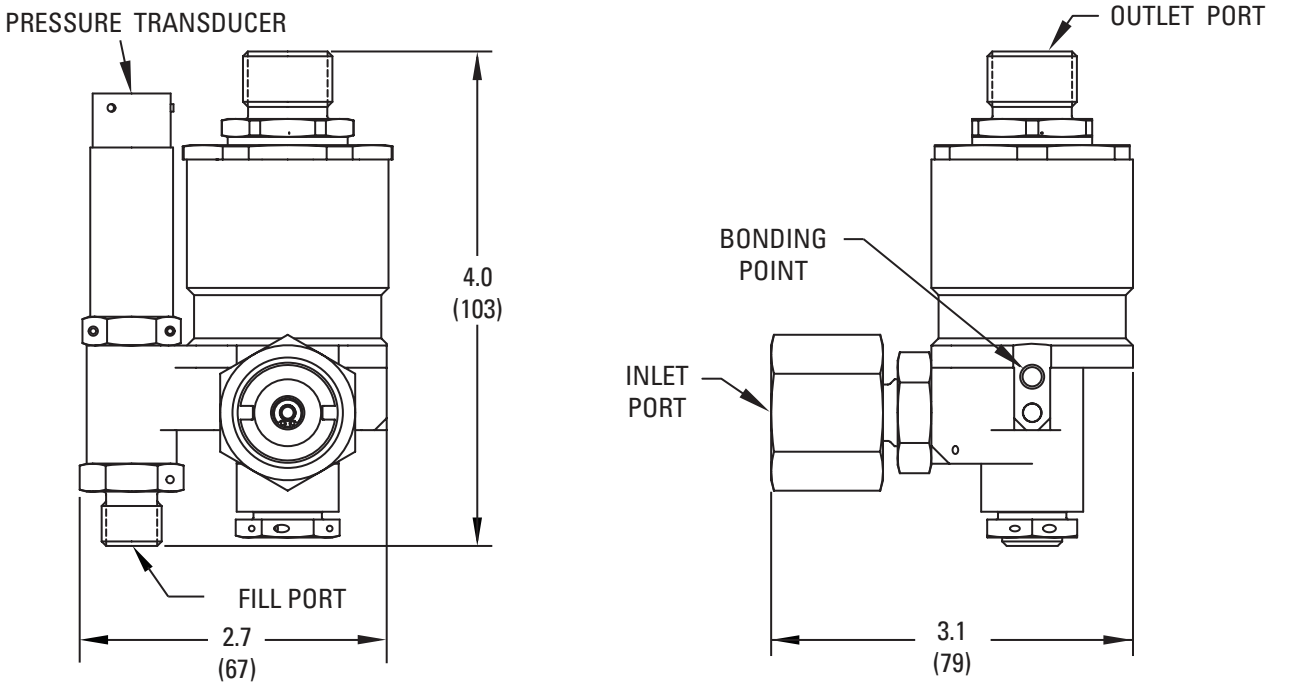
Carleton's Oxygen Pressure Reducer (part number B43575-1) has been qualified for use on commercial aircraft.

Features:

This compact, lightweight, single-stage pressure reducer uses a balanced piston design to provide precise pressure control, low leakage and high flow capacity. The outlet pressure is tightly controlled between 115 and 145 psig over an inlet range of 200 to 2,175 psig with a flow capacity of 0 to 504 slpm (NTPD). The design and construction of the valve maximizes oxygen safety. The reducer is equipped with a fill port, an outlet check valve, and a pressure transducer.

SPECIFICATIONS

Reducer
Part Number: B43575-1



All dimensions in inch (mm)

Specifications:

Weight	2.31 lbs	(1.05 Kg)
Inlet Pressure	200 to 2,000 psig	(14 to 150 barg)
Outlet Pressure	115 to 145 psig	(7.9 to 10 barg)
Flow Rate	0 to 504 slpm	
Transducer Power Supply	8 to 16 VDC	
Transducer Output Signal	4 to 20 mA	
Media	Gaseous Oxygen per MIL-PRF-27210	

Operating Environment:

Operating Temperature	5 to 158 deg F	(-15 to 70 deg C)
Storage Temperature	-67 to 185 deg F	(-55 to 85 deg C)
Shock	9 g sustained 20 g crash	
Vibration	5.83 Grms each axis	
Humidity	0 to100% relative humidity	
Altitude	41,000 ft max	(12,497 m)

Product Interfaces:

Inlet Port	CGA540 (.903 - 14NGO RH int thread)
Outlet Port	MS33514-8
Fill Port	MS 33514-5
Electrical Connector	ASN0053010B6PNH ASNE0053R10B6PNH

Carleton Technologies Inc
10 Cobham Drive
Orchard Park, New York 14127-4195, USA
Tel: +1 716 662 0006 • Fax: +1 716 662 0747
www.carltech.com