

Heavy Duty Brass Final Line Pressure Regulator BR-1780 Series

Application

BR-1780 Series Regulators are designed for final line pressure regulation on medical oxygen systems. They are equally suitable for a variety of gases in medical or industrial applications. The BR-1780 Series Regulators have a balanced seat, are constructed with oxygen compatible materials, and offer a tamper resistant adjustment screw cap. Flow performance is impressive as well offering up to 30,000 SCFH for the ¾" and 1" model and up to 20,000 SCFH for the ½" model.

Features

- Maintains a steady downstream pressure across a range of inlet pressures commonly provided by a cryogenic bulk tank.
- Large seat and diaphragm areas provide high capacity with sensitive control of delivery pressure with low falloff.
- Two ¼" FNPT plugged delivery pressure gauge ports are located on each side of the valve.
- Two bonnet drain/vent holes to allow for various mounting orientations.
- Bonnet cap covering adjusting screw for tamper protection.
- Maximum inlet pressure is 435 psig.
- Available in four delivery pressure ranges. (A-D)
- Temperature range: -40° F to +165° F. (-40°C to +74°C)
- Cleaned per CGA G-4.1 for oxygen service.
- 100% Factory Tested

Materials

Body Forged Brass
Bonnet Forged brass
Diaphragm Nitrile with PTFE liner
Springs, fasteners, and adjusting screw Stainless Steel
Other valve parts Brass
Seat Disc & O-Rings Viton is standard

For Carbon Dioxide and Nitrous Oxide Service: Specify EPDM material for seat disc and O-Rings, add "E" to end of part number.

Ordering Information

Part Number	Delivery Pressure Range	Pressure Gauge*		Inlet & Outlet (F.N.P.T.)	Dimensions				C _v
		Range (PSI)	P/N		"A"	"B"	"C"	"D"	
BR-1784A	5-55 psig	1-100	1286	½"	2.82"	3.62"	1.38"	5.21"	3.1
BR-1784B	40-110 psig	1-200	S1679						
BR-1784C	100-200 psig	1-400	15578						
BR-1784D	175-300 psig								
BR-1786A	5-55 psig	1-100	1286	¾"	3.31"	4.69"	1.60"	6.46"	4.8
BR-1786B	40-110 psig	1-200	S1679						
BR-1786C	100-200 psig	1-400	15578						
BR-1786D	175-275 psig								
BR-1788A	5-55 psig	1-100	1286	1"	3.31"	4.69"	1.60"	6.46"	5.5
BR-1788B	40-110 psig	1-200	S1679						
BR-1788C	100-200 psig	1-400	15578						
BR-1788D	175-275 psig								

*Regulator sold without gauge. Order gauge separately.



BR-1784



BR1786 and BR1788