

Heavy Duty Brass Final Line Pressure Regulator BR-1780 Series

Application

The 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 3/4" and 1" model and up to 20,000 SCFH for the 1/2" model.

Features

- Maintains a steady downstream pressure across a range of inlet pressure 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 1/4" FNPT delivery pressure gauge ports are located (plugged) on each side of the valve.
- Two bonnet drain/vent holes to allow for different mounting orientation.
- Bonnet cap covering adjusting screw for tamper protection.
- Maximum inlet pressure is 435 psig.
- Available in four delivery pressure ranges.
- Temperature range: -40° F to +165° F.
- Cleaned per CGA G-4.1 for oxygen service.
- 100% Factory Tested



BR-1784



BR1786 and BR1788

Materials

Body	Forged Brass
Bonnet	Cast bronze for BR-1786/1788 Forged brass for BR-1784
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.

Maintenance and Options Kits

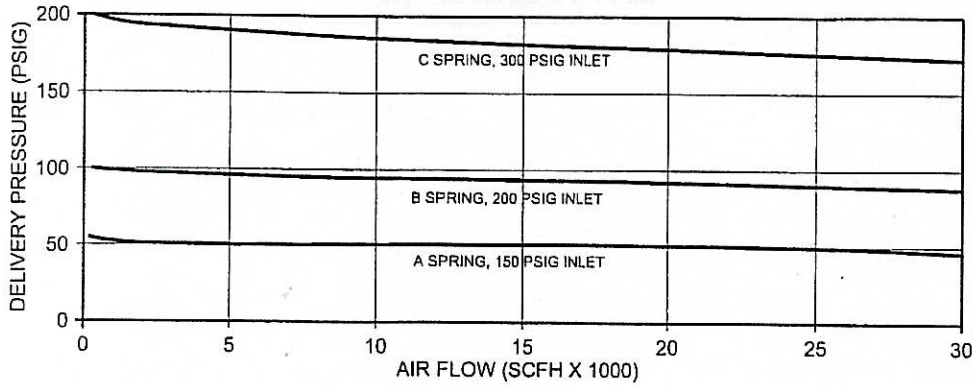
Regulator Models	BR1784	BR1786	BR1788
Repair Kit Part Number	BR1784-80	BR1786-80	BR1786-80
Spring Kit Part Numbers:			
"A" spring 5 –55 psig	BR1784-7SKA	BR1786-7SKA	BR1786-7SKA
"B" spring 40-110 psig	BR1784-7SKB	BR1786-7SKB	BR1786-7SKB
"C" spring 100-200 psig	BR1784-7SKC	BR1786-7SKC	BR1786-7SKC
"D" spring 175-275 psig	BR1784-7SKD	BR1786-7SKD	BR1786-7SKD
T-Handle Screw Option Kit	BR1784ST	BR1786ST	BR1786ST

Heavy Duty Brass Final Line Pressure Regulator BR-1780 Series

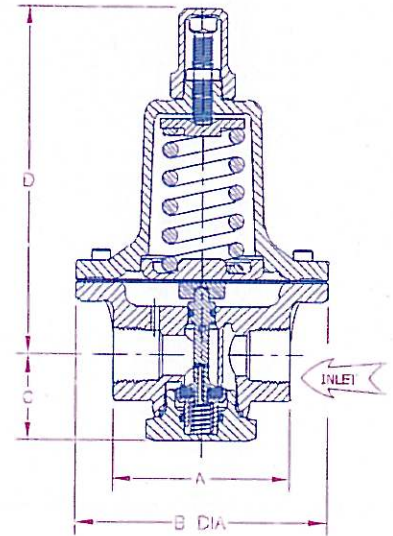
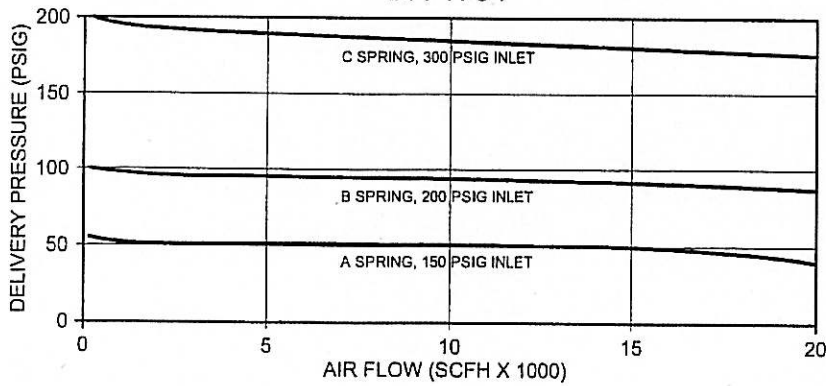
Flow Performance

See the Rego Flow Performance Curves section of the catalog for more detailed flow curves.

BR-1786 & BR-1788



BR-1784



Dimensions

The BR-1780 Series Regulators have inlet and outlet connection dimensions similar to the popular 1680 Series aluminum regulators. This means that you can replace the respective size 1680 Series regulator with the new BR-1780 Series regulator and have the improved performance and premium features available on the BR-1780 Series

For Carbon Dioxide or Nitrous Oxide Service, 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.