Heavy Duty Gas Line Regulator 1780 Series

Application

The 1780 Series Regulators are designed for final line pressure regulation on gas distribution systems. They are suitable for a variety of gases in medical or industrial applications. The 1780 Series Regulators have a balanced seat, are constructed with oxygen compatible materials, and have the same valve design, brass body, and internal parts as the premium BR-1780 Series. Flow performance is equal to the BR-1780 Series.

Features

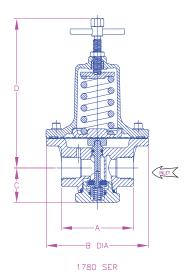
- Maintains a steady downstream pressure across a range of inlet pressures commonly provided by a cryogenic bulk tank.
- Large seat and diaphragm areas provide high capacity with sensitive control of delivery pressure with low falloff.
- Two 1/4" FNPT delivery pressure gauge ports are located (plugged) on each side of the valve.
- Two bonnet drain/vent holes to allow for different mounting orientation.
- · T-handle adjusting screw.
- Maximum inlet pressure is 500 psig (34 Bar).
- 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	Nickel Plated Aluminum
Diaphragm	Nitrile with PTFE liner
Springs and Fastners	Stainless Steel
Other valve parts	Brass
Seat Disc & O-Rings	

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





Ordering Information

Part	Delivery	Delivery Pressure Gauge*		Inlet & Outlet Dimensions								
Number	Pressure Range	Range (PSI)	P/N	(F.N.P.T.)	"A"	"B"	"C"	"D"	Cv			
1784A	5-55 psig	1-100	1286	473	1/"							
1784B	40-110 psig	1-200	S1679			0.00"	0.00"	4.00"	5 47"			
1784C	100-200 psig	4 400	45570	1/2"	2.82"	3.62"	1.38"	5.47"	3.1			
1784D	175-300 psig	1-400	15578									
1786A	5-55 psig	1-100	1286	3/"	3/,"							
1786B	40-110 psig	1-200	S1679							4.8		
1786C	100-200 psig	1-400	1-400	1 400	00 psig	nsia	/4					4.0
1786D	175-275 psig			13376		3.31"	4.69"	1.60"	6.84"			
1788A	5-55 psig	1-100	1286	4"	3.31	4.09	1.00	0.04				
1788B	40-110 psig	1-200	S1679		1"					5.5		
1788C	100-200 psig	1-400	1 400	15578	'					3.5		
1788D	175-275 psig		15576									

^{*}Regulator sold without gauge. Order gauge separately.