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. Compatible with oxygen, nitrogen, argon, hydrogen, helium, CO2, and LNG.

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
- T-handle adjusting screw
- Maximum inlet pressure is 500 psig (34.5 barg)
- 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 Fasteners	Stainless Steel
Other valve parts	Brass
Seat Disc & O-Rings	Viton is standard

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

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Part		Pressure Gauge*		Inlet & Outlet		Dimensions												
Number	Delivery Pressure Range	Range (psig)	P/N	(F.N.P.T.)		"A"		"]	"B" '		"C")"	Cv (Kv)				
		nalige (psig)		Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	CV (RV)				
1784A	5-55 psig (0.3-3.8 barg)	1-100	1286		_	6												
1784B	40-110 psig (2.8-7.6 barg)	1-200	S1679															
1784C	100-200 psig (6.9-13.8 barg)	1-400	4 400	45570	1/2"	22	2.82"	1.28	3.62"	1.64	1.38"	.62	5.47"	2.5	3.1 (2.68)			
1784D	175-300 psig (12.1-20.7 barg)		15578	1-400 155/8														
1786A	5-55 psig (0.3-3.8 barg)	1-100	1286)														
1786B	40-110 psig (2.8-7.6 barg)	1-200	S1679			34												
1786C	100-200 psig (6.9-13.8 barg)	1-400	1-400 155			3/4"	34									4.8 (4.15)		
1786D	175-275 psig (12.1-19.0 barg)					15578	100/8	15576	15576	15576	105/8			3.31"	1.50	4.69"	2.12	1.60"
1788A	5-55 psig (0.3-3.8 barg)	1-100	1286	9 1"		3.31	1.50	4.03	2.12	1.00	.12	0.04	3.1					
1788B	40-110 psig (2.8-7.6 barg)	1-200	S1679		3	45												
1788C	100-200 psig (6.9-13.8 barg)	1-400	15570		45									5.5 (4.75)				
1788D	175-275 psig (12.1-19.0 barg)		1-400	15578	10078	105/8	105/8	105/8										

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







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