

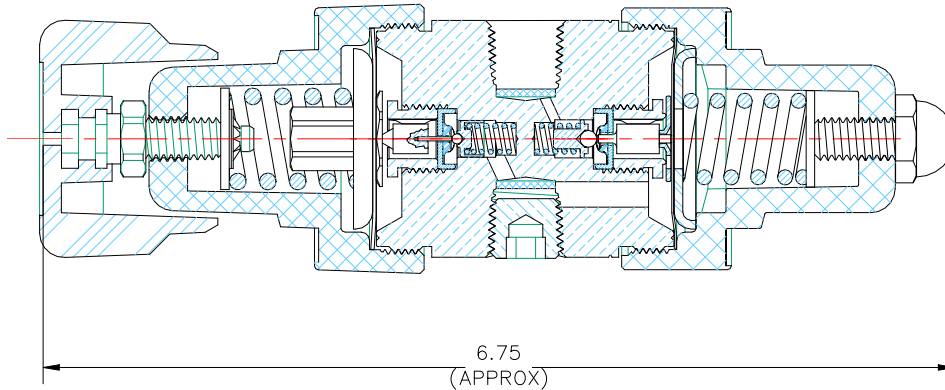
**M2-XXX-
PGB(H)
Regulator**

**Two-Stage, Clinical
Regulator**



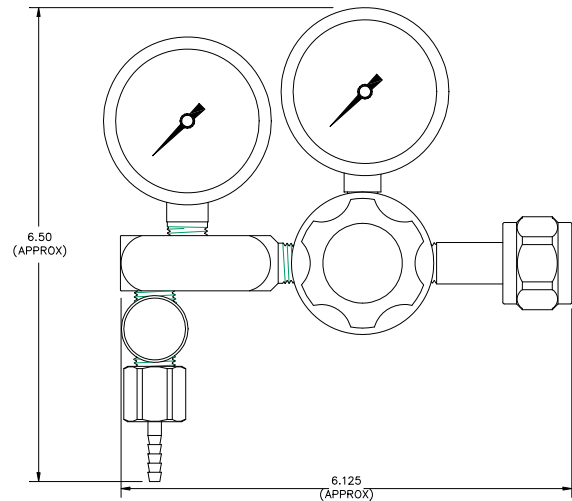
WESTERN
a Scott Fetzer company

G A S C O N T R O L T E C H N O L O G Y



MATERIALS OF CONSTRUCTION

DESCRIPTION	Wetted Component	MATERIAL
Body	Y	UNS C36000 Brass – Nickel Plated
Bonnets	N	Chrome Plated Zinc
Diaphragms	Y	Neoprene and Fairprene
Filters	Y	Nickel Plated Sintered Bronze
Gauges	Y	Copper Alloy (Brass)
Seats	Y	PCTFE (Neoflon)
Seat Holders	Y	UNS C36000 Brass
Bushings	Y	UNS C36000 Brass
Plungers	Y	UNS C36000 Brass
Plunger Pin	Y	Type 302 Spring Wire
Anti-vibrators	Y	UNS S30100 SST UNS C36000 Brass
Valve Springs	Y	UNS S17700 SST
Plunger Disc	Y	UNS S30200 SST
Valves	Y	UNS C36000 Brass UNS S44004 SST
O-rings	Y	Neoprene
Lubricant	Y	Krytox GPL-206
Pivots	N	Zinc Plated Steel
Adjusting Springs	N	Music Wire
Adjusting Knob	N	ABS Plastic
Adjusting Screw	N	UNS C36000 Brass



WMV-5-10 Outlet Valve:

Body	Y	UNS C37700 Brass (Chrome Plated)
Stem	Y	UNS C87610 (Silicone Bronze)
Bonnet	Y	UNS C36600 Brass
Glands	Y	UNS C26000 Brass
Packing	Y	Virgin PTFE
Lubricant	Y	Silicone based lubricant

- Four – 1/4 -18 NPT Ports
 - 1 1/4 - 18 NPT HP Inlet Port @ 0°
 - 1 1/4 - 18 NPT HP Gauge Port @ 90°
 - 1 1/4 - 18 NPT LP Outlet Port @ 180°
 - 1 1/4 - 18 NPT Intermediate Pressure Port @ 270°
- 50 - 70µ Filtration in bottom of both HP Ports
- Shipping Weight: ~ 3 lbs 10 oz
- 2" Inlet and Outlet Gauges

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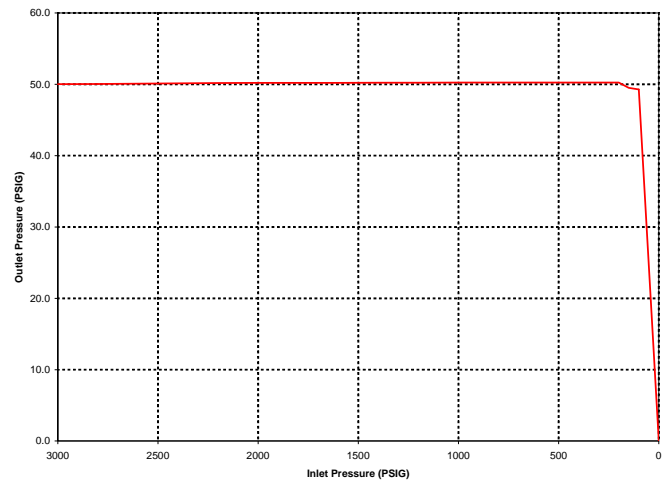
G A S C O N T R O L T E C H N O L O G Y

- Internal, Second Stage Relief Valve
Cracking Pressure: 150 – 180 psig
- Intermediate Set Pressure: 160 - 180 psig (at 2200 psig inlet)
- Internal and External Leak Integrity: Bubble Tight

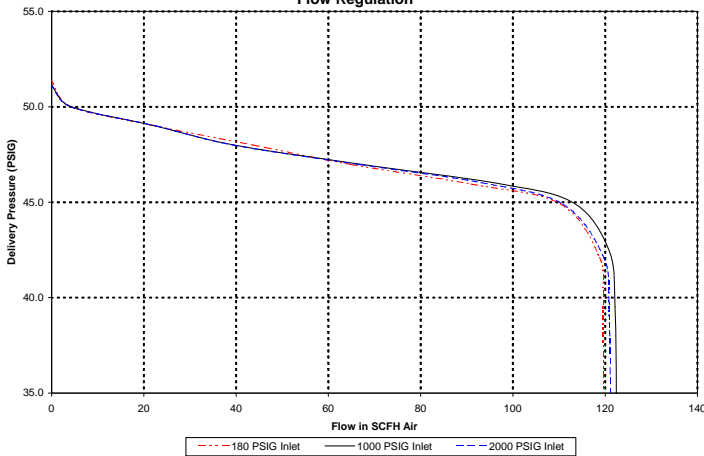
Overall Pressure Regulation Coefficient (i): < 0.01
 Intermediate Pressure Regulation Coefficient (i): 0.43
 Static Increment: 1.3 psig
 Flow coefficient (C_v):
 First Stage: 0.067
 Second Stage: 0.018
 Overall: 0.018
 Maximum Inlet Pressure: 3000 psig
 Operating Temperature Range:
 -20°F to 120°F (-29°C to 49°C)
 Maximum Rated Flow: See Below

Outlet Valve Cv: 0.15
 3 ½ Rotations to Full Open

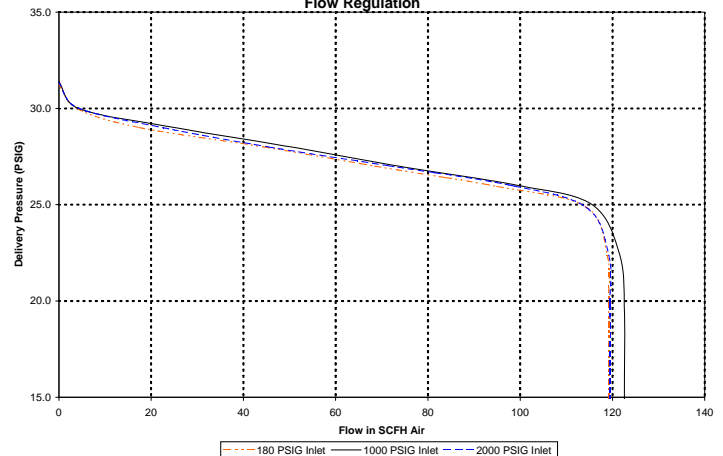
Pressure Regulation



Flow Regulation



Flow Regulation



Maximum Rated Delivery Pressure (psig)	Minimum Rated Inlet Pressure (psig)	Max rated flow at min rated inlet pressure (SCFH Air)	Max rated flow at 1000 psi inlet pressure (SCFH Air)	Max rated flow at 2000 psi inlet pressure (SCFH Air)
50	180	95	100	100
30	180	95	100	100

Western reserves the right to make design changes without prior notice.

For more technical information or assistance in ordering please contact Western Customer Service at 1.800.783.7890 or 440.871.2160.