



ANDERSON GREENWOOD SERIES M5F MULTI-PORT GAUGE VALVES

A 1/4" FNPT x (3) 1/4" FNPT multi-port block and bleed valve for universal use wherever more than one outlet is required



FEATURES

- Metal-to-metal body-to-bonnet seal in constant compression prevents bonnet thread corrosion, eliminates possible tensile breakage and gives a reliable seal point.
- Rolled stem and bonnet threads provide additional strength.
- Dust cover protects stem from lubricant contamination.
- Packing below threads prevents lubricant washout, thread corrosion, process contamination and eliminates galling.
- Replaceable soft seat and can operate in dirty service with repetitive bubble-tight shutoff.
- Easily adjustable PTFE packing decreases replacement downtime and increases valve life.
- Mirror stem finish in the packing area provides smooth operation and extends packing life.
- Safety back seating prevents stem blowout or accidental removal and provides a metal-to-metal secondary stem seal while in the fully open position.
- Straight-through flow path means high flow capacity, bi-directional flow and rodding capabilities.

GENERAL APPLICATION

Typically used as a block valve with multiple port outlets in natural gas applications.

TECHNICAL DATA

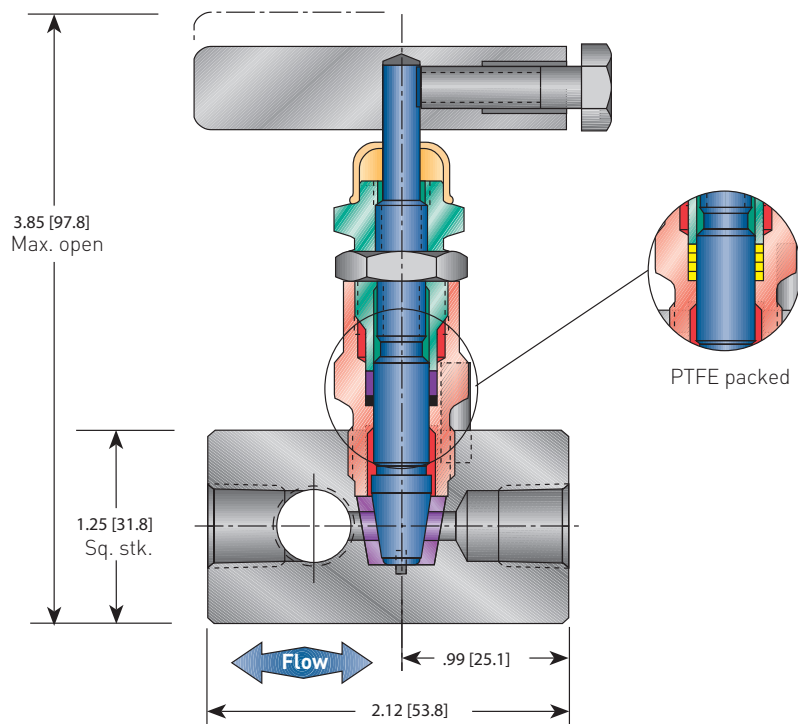
Materials:	CS, SS
Seats:	Soft
Connections:	1/4" (7 mm) NPT
Pressure (max.):	6,000 psig (414 barg)
Temperature (max.):	500°F (260°C)

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BONNET ASSEMBLY

The M5F features a soft-seated bonnet assembly which has a one-piece rotating stem and plug. The stem threads are rolled and lubricated to prevent galling and reduce operating torque. It is available with a patented PTFE packing gland, which is adjustable in service or with an FKM O-ring and PTFE back-up ring. A protective dust cap is fitted to contain stem lubricant and prevent the influx of contaminants. All bonnets are assembled with a bonnet locking pin to prevent accidental removal while in service.

DIMENSIONS, INCHES [mm]



STANDARD MATERIALS

Valve ^[1]	Body and bonnet	Stem	Stem seal	Seat
CS ^[2]	A108 CS	A581-303A SS	FKM or PTFE	Delrin®
SS	A479-316 SS	A276-316 SS	FKM or PTFE	Delrin®
SG ^[4]	A479-316 SS	Monel® 400	PTFE	Delrin®
SG3 ^[7]	Hastelloy® C-276	Hastelloy® C-276	PTFE	Delrin®

PRESSURE AND TEMPERATURE RATINGS

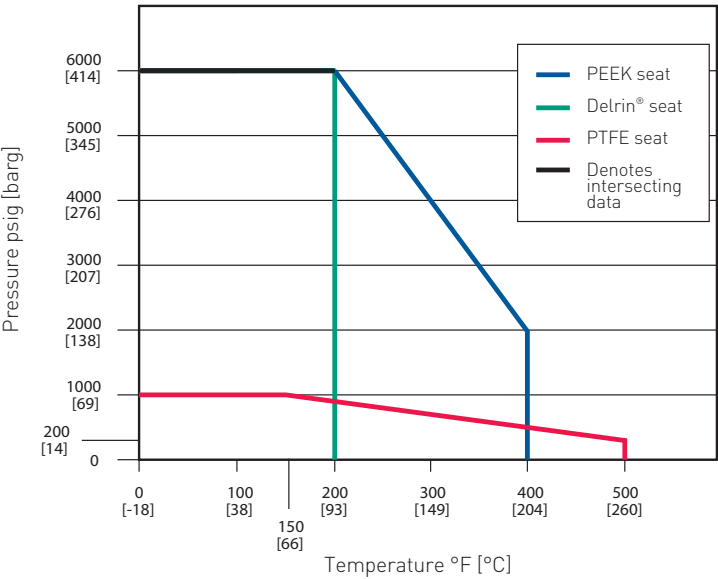
Valve	Packing ^[3]	Seat	Ratings
CS ^[2] , SS, SG3	FKM or PTFE	Delrin®/PCTFE ^[4]	6000 psig at 200°F [414 barg at 93°C]
CS ^[2] , SS, SG3	FKM or PTFE	PEEK	6000 psig at 200°F [414 barg at 93°C] 2000 psig at 400°F [138 barg at 204°C]
CS ^[2] , SS, SG3	FKM or PTFE	PTFE	1000 psig at 150°F [69 barg at 66°C] 200 psig at 500°F [14 barg at 260°C]

NOTES

- Approximate valve weight:
Standard 1.0 lb [0.5 kg].
Orifice size: 0.187-inch [4.8 mm] diameter.
Valve C_v 0.83 maximum.
- CS body and bonnet are zinc chromate plated to prevent corrosion.
- O-ring packed maximum temperature 400°F [204°C].
- PCTFE (Polychlorotrifluoroethylene) is the exact equivalent of Kel-F®.
- For Hastelloy® and SG3 call factory for dimensions and weights.
- SG (Sour Gas) meets the requirements of NACE MR0175/ISO 15156 (for chloride conditions ≤ 50 mg/l (ppm)) and NACE MR0103-2005.
- SG3 (Sour Gas) meets the requirements of NACE MR0175/ISO 15156 (for chloride conditions > 50 mg/l (ppm)).
- Minimum temperature for PTFE packing: -70°F [-57°C].

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PRESSURE VS. TEMPERATURE



SELECTION GUIDE

Example:	M5F	V	D	S	-2	-SG
Packing						
V	PTFE					
R	O-ring with PTFE Backup					
Seat						
D	Delrin® (standard)					
K	PCTFE ^[1]					
E	PEEK					
V	PTFE					
Body						
C	CS ^[3]					
S	316 SS					
Connections (inlet/outlet)						
2	¼-inch FNPT x {3} ¼-inch FNPT					
Options						
BL	Bonnet Lock device (patent protected)					
CL00	Chlorine Cleaning					
HD	Hydrostatic Testing (100%)(MSS-SP-61)					
OC00	Oxygen Cleaning					
SG	Sour Gas meets the requirements of NACE MR0175/ISO 15156 (for chloride conditions ≤ 50 mg/l (ppm)) and NACE MR0103-2005 (SS only)					
SG3	Sour Gas meets the requirements of NACE MR0175/ISO 15156 (for chloride conditions > 50 mg/l (ppm)) – if accessories are added, consult factory for materials					

NOTES

1. PCTFE (Polychlorotrifluoroethylene) is the exact equivalent of Kel-F®.
2. O-ring packed maximum temperature 400°F [204°C].
3. CS is zinc chromate plated to prevent corrosion.

