

## 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



### 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)

### FEATURES

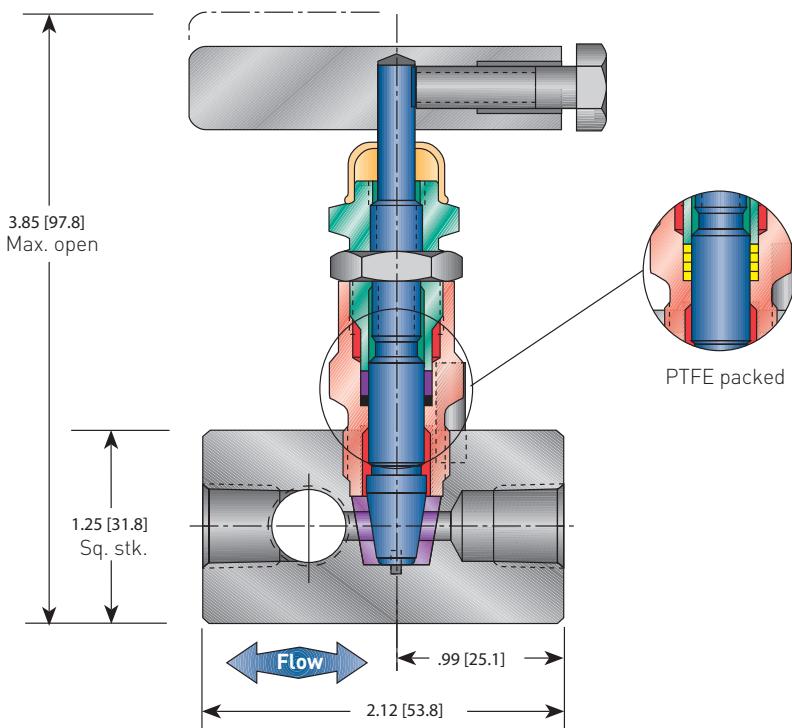
- Metal-to-metal body-to-bonnet seal in constant compression prevents bonnet thread corrosion, eliminates possible tensile breakage and gives a reliable seal point.
- Rolled stem and bonnet threads provide additional strength.
- Dust cover protects stem from lubricant contamination.
- Packing below threads 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.

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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 <sup>[1]</sup>	Body and bonnet	Stem	Stem seal	Seat
CS <sup>[2]</sup>	A108 CS	A581-303A SS	FKM or PTFE	Delrin®
SS	A479-316 SS	A276-316 SS	FKM or PTFE	Delrin®
SG <sup>[6]</sup>	A479-316 SS	Monel® 400	PTFE	Delrin®
SG3 <sup>[7]</sup>	Hastelloy® C-276	Hastelloy® C-276	PTFE	Delrin®

## PRESSURE AND TEMPERATURE RATINGS

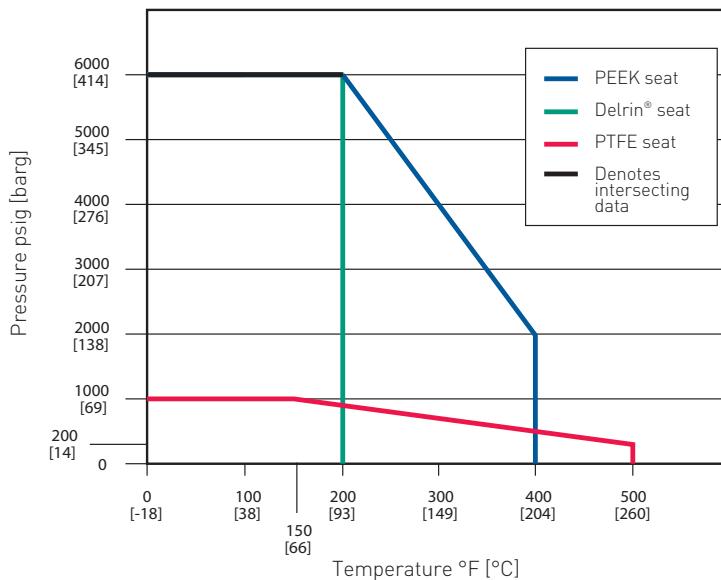
Valve	Packing <sup>[3]</sup>	Seat	Ratings
CS <sup>[2]</sup> , SS, SG3	FKM or PTFE	Delrin®/PCTFE <sup>[4]</sup>	6000 psig at 200°F [414 barg at 93°C]
CS <sup>[2]</sup> , SS, SG3	FKM or PTFE	PEEK	6000 psig at 200°F [414 barg at 93°C] 2000 psig at 400°F [138 barg at 204°C]
CS <sup>[2]</sup> , SS, SG3	FKM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

## NOTES

1. Approximate valve weight:  
Standard 1.0 lb [0.5 kg].  
Orifice size: 0.187-inch [4.8 mm] diameter.  
Valve Cv 0.83 maximum.
2. CS body and bonnet are zinc cromate plated to prevent corrosion.
3. O-ring packed maximum temperature 400°F [204°C].
4. PCTFE [Polychlorotrifluoroethylene] is the exact equivalent of Kel-F®.
5. For Hastelloy® and SG3 call factory for dimensions and weights.
6. SG [Sour Gas] meets the requirements of NACE MR0175/ISO 15156 [for chloride conditions < 50 mg/l (ppm)] and NACE MR0103-2005.
7. SG3 [Sour Gas] meets the requirements of NACE MR0175/ISO 15156 [for chloride conditions > 50 mg/l (ppm)].
8. 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
<b>Packing</b>						
V PTFE						
R O-ring with PTFE Backup						
<b>Seat</b>						
D Delrin® (standard)						
K PCTFE <sup>[1]</sup>						
E PEEK						
V PTFE						
<b>Body</b>						
C CS <sup>[3]</sup>						
S 316 SS						
<b>Connections (inlet/outlet)</b>						
2 1/4-inch FNPT x (3) 1/4-inch FNPT						
<b>Options</b>						
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 cromate plated to prevent corrosion.

