

## Anderson Greenwood Instrumentation Multi Port Gauge Valves

A ¼" FNPT x (3) ¼" FNPT multi-port block 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, 316 SS

**Seats:**

Soft

**Connections:**

¼" (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.

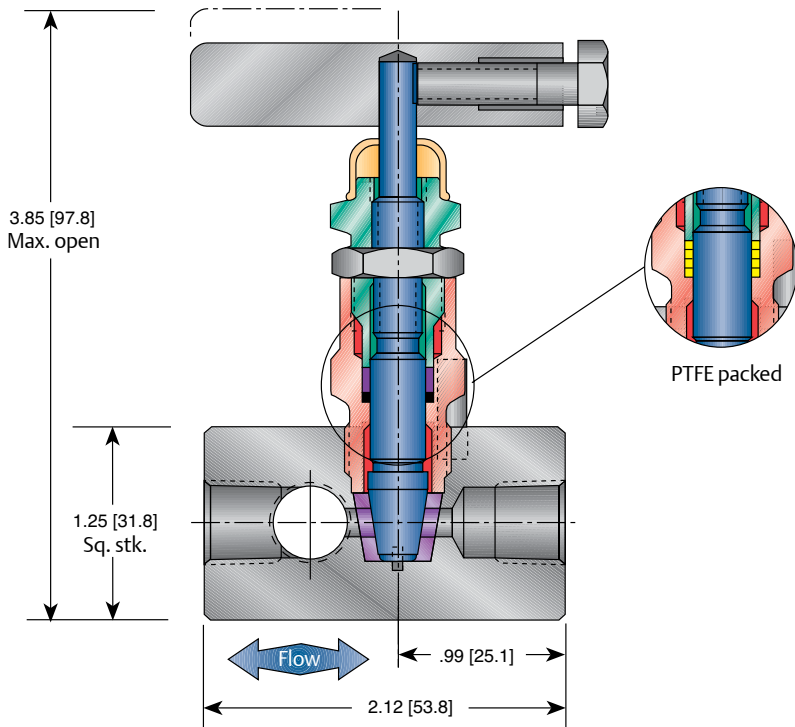
# M5F SERIES

## Anderson Greenwood Instrumentation Multi Port Gauge Valves

### Bonnet Assembly Options

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]



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### Standard Materials

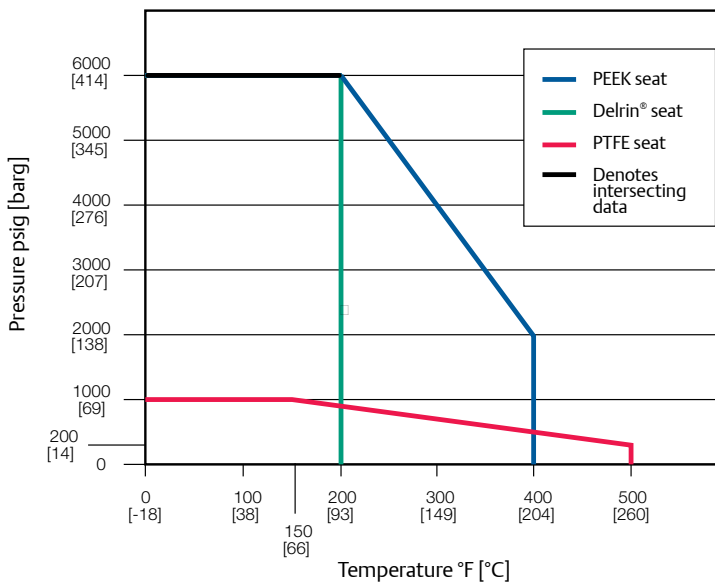
Valve <sup>[1]</sup>	Body and bonnet	Stem	Stem seal	Seat
CS <sup>[2]</sup>	A108 CS	A581-303A SS	FKM or PTFE	Delrin®
316 SS	A479-316 SS	A276-316 SS	FKM or PTFE	Delrin®
SG <sup>[6]</sup>	A479-316 SS	Monel® 400	PTFE	Delrin®
SG3 <sup>[7]</sup>	Hastelloy® C-276	Hastelloy® C-276	PTFE	Delrin®

### Pressure vs. Temperature

#### Pressure and Temperature Ratings

Valve	Packing <sup>[3]</sup>	Seat	Ratings
CS <sup>[2]</sup> , 316 SS, SG3	FKM or PTFE	Delrin®/PCTFE <sup>[4]</sup>	6000 psig at 200°F [414 barg at 93°C]
CS <sup>[2]</sup> , 316 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> , 316 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]

### Pressure vs. temperature



#### NOTES

- Approximate valve weight:  
Standard 1.0 lb [0.5 kg].  
Orifice size: 0.187-inch [4.8 mm] diameter.  
Valve Cv 0.83 maximum.
- CS body and bonnet are zinc TCP 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 316 SS PTFE packing: -70°F (-57°C) with Peek seats, for Delrin -40°F (-40°C). Carbon Steel minimum temperature -20°F (-29°C).

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### Selection Guide

M5F	V	D	S	-2	-SG
BASIC SERIES	PACKING	SEAT	BODY	CONNECTIONS (INLET/OUTLET)	OPTIONS
M5F	V PTFE	D Delrin® (standard)	C CS <sup>[3]</sup>	2 ¼-inch FNPT x (3) ¼-inch FNPT	<p><b>SG</b> Sour Gas meets the requirements of NACE MR0175/ISO 15156 (for chloride conditions ≤ 50 mg/l (ppm)) and NACE MR0103-2005 (SS only)</p> <p><b>SG3</b> Sour Gas meets the requirements of NACE MR0175/ISO 15156 (for chloride conditions &gt; 50 mg/l (ppm)) – if accessories are added, consult factory for materials</p>
		K PCTFE <sup>[1]</sup>	S 316 SS		
		E PEEK			
		V PTFE			

#### 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 TCP plated to prevent corrosion.