

# **Instrumentation Manifold Valves**

# SM2V / SM3V / SM5V Series



# **Ordering Information**

Example:  $\frac{5M2}{1} \frac{V}{2} - \frac{F}{3} \frac{8N}{4} - \frac{M40}{5}$ 

#### 1. Valve Series

SM2 : 2-Valve Manifolds SM3 : 3-Valve Manifolds SM5 : 5-Valve Manifolds

### 2. Mounting Type

V : Horizontal Style (Remote Mounting)
VF : Horizontal Single Flange Style (Direct Mounting)
VDF : Horizontal Dual Flange Style (Direct Mounting)

VD: Vertical Style (Direct Mounting)

### 3. End Connection Type

S : Superlok Female Tube Fitting F : Female Pipe Thread

### 4. End Connection Size

### **Tube O.D Designation**

Size (inch)	1/2
Designation	8

#### **Pipe Thread Designation**

Size (inch)	1/2
Screwed NPT	8N

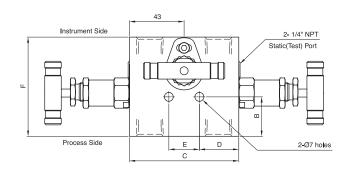
### 5. Body Material

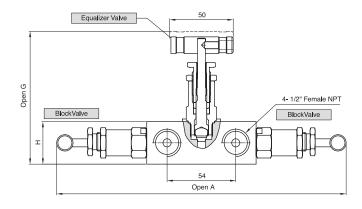
SS: 316 Stainless Steel M40: Alloy 400 (Monel)

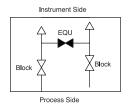


# **3-Valve Manifolds**

# **Horizontal Style(Remote Mounting)**

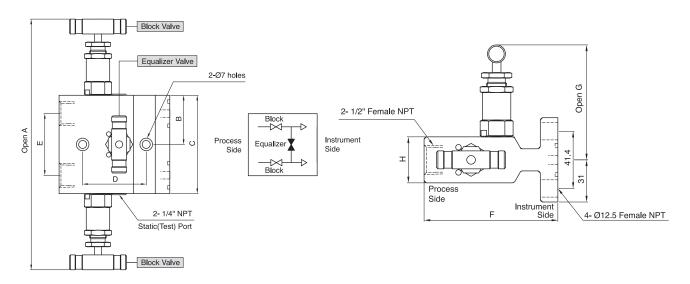






Dout Nambou	End Connections		Weight Dimensions							
Part Number	Process	Instrument	Α	В	С	D	E	F	G	Н
SM3V-F8N	1/2" Female NPT		228.0	31.0	86.0	31.0	24.0	78.0	106.0	33.5

# **Horizontal Single Flange Style (Direct Mounting)**



Dout Namehou	End Connections		Weight Dimensions							
Part Number	Process	Instrument	A	В	С	D	E	F	G	Н
SM3VF-F8N	1/2" Female NPT	Flange	228.0	43.0	86.0	55.6	54.0	97.0	87.7	31.8

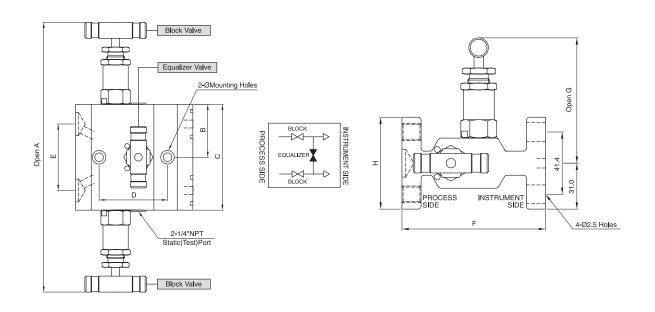
<sup>•</sup> All dimensions in millimeters unless specified as "inch". Dimension are for reference only and are subject to change.

<sup>•</sup> To order a manifold with optional Grafoil packing, add-G to the manifold ordering number.



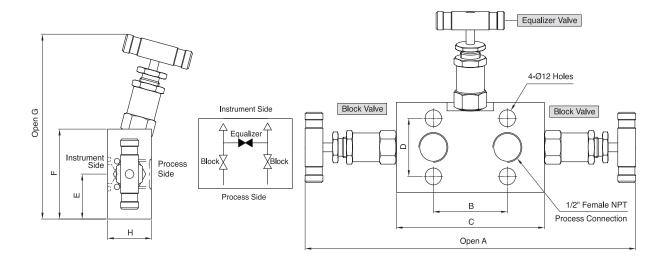
# **3-Valve Manifolds**

### **Horizontal Dual Flange Style (Direct Mounting)**



Dout Namehou	End Connections		Weight Dimensions							
Part Number	Process	Instrument	Α	В	С	D	E	F	G	Н
SM3VDF	Flange	Flange	228.0	43.0	86.0	55.6	54.0	96.4	87.7	62.0

# **Vertical Style (Direct Mounting)**



Dow Number	End Connections		Weight Dimensions							
Part Number	Process	Instrument	Α	В	С	D	E	F	G	Н
SM3VD-F8N	1/2" Female NPT	Flange	250.0	54.0	108.0	41.4	32.0	64.0	136.0	32.0

<sup>•</sup> All dimensions in millimeters unless specified as "inch". Dimension are for reference only and are subject to change.

<sup>•</sup> To order a manifold with optional Grafoil packing, add-G to the manifold ordering number.



# **Manifolds Accessories**

### Flange Bolts & Seals

### **Flange Bolts**

Flange Bolt	Part Number	Hex Size mm (in.)	Length mm (in.)	Threads	Bolt Material Designator	
Standard Hex Head Bolt	SM-FB		25.0 (1.0)		0.11	
Long Stud with Hex Nut	SM-LFB	15.87	58.0 (2.28)	7/16 - 20	Stainless Steel : -S Carbon Steel : -C	
Short Hex Head Bolt	SM-SFB	(5/8)	22.2 (0.875)			

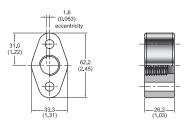
### **Flange Seals**

Seal Material	Ordering No.	Temperature Rating
Viton	SM - FS - V	-20°F ~ 450°F (-28°C ~ 232°C)
PTFE	SM - FS	-65°F ~ 250°F (-53°C ~ 121°C)
Grafoil	SM - FS - GR	-65°F ~ 1000°F (-53°C ~ 537°C)



### **Concentric & Eccentric Oval Flange**

- Eccentric Flanges and Pipe Nipple allow connections of flange to flange manifolds to process flange taps or process root valves.
- Standard connection is female NPT 1/2".
- Concentric & eccentric oval flange ordering number : Concentric oval flange female NPT 1/2" : SM COF F8N Eccentric oval flange female NPT 1/2" : SM - EOF - F8N
- Dimensions, in millimeters (inches), are for reference only and are subject to change.



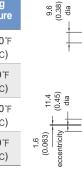
76.2

(3.00)

> Hex 15/16 Eccentric

### **Concentric & Eccentric Pipe Nipple**

Туре	Part Number	Material	Pressure Rating @70°F (20°C) psig (bar)	Temperature Rating °F (℃)	Pressure Rating @Max. temperature
Concentrio	SM - CPN - S	SS316 / A276	10000 (689)	-65 to 1200 (-53 to 648)	2850 psig @ 1200°F (196 bar @ 648°C)
Concentric	SM - CPN - C	Carbon Steel / A108	8000 (551)	-20 to 350 (-28 to 176)	6970 psig @ 350°F (480 bar @ 176°C)
Facantria	SM - EPN - S	SS316 / A276	7500 (516)	-65 to 1200 (-53 to 648)	2140 psig @ 1200°F (147 bar @ 648°C)
Eccentric	SM - EPN - C	Carbon Steel / A108	6000 (413)	-20 to 350 (-28 to 176)	5230 psig @ 350°F (360 bar @ 176℃)



### **Calibration Fittings**





#### Calibration fittings connect directly to the bleed port of differential pressure transmitter.

Material	Part Number	SUPERLOK O.D	Stright Male Thread
Stainless Steel / A276	SCAL4 - 1U	1/4"	1/4 - 28UNF
	SCAL4 - 2U	1/4"	5/16 - 24UNF

# Vent plugs, Bleed & PurgeValves

- Bleed & Purge valves used to vent to atmosphere and to assist in calibration.
- Are offered in 1/4, 3/8, and 1/2 in. male NPT sizes.
- For more information, see the SUPERLOK BLEED & PURGE VALVE catalog. (BMT CBPV)
- Dimensions, in millimeters (inches), are for reference only and are subject to change.





<sup>\*</sup> Dimensions, in millimeters (inches), are for reference only and are subject to change.