

Manifold Valves

FEATURES

- One piece bonnet with a metal to a metal seal to the valve body below the bonnet threads.
- Bonnet lock pin to prevent accidental loosening.
- 316 stainless steel construction of Manifold.
- Standard stem packing is PTFE.
- Two bonnet needle valve designs.
- 100% factory tested.



INTRODUCTIONS

The *U-PRO* 2 valve Manifolds has been specifically designed for mounting on differential pressure transmitters in liquid level applications. It contains a bleed valve and block valve. The 3 valves manifolds are designed for use with differential pressure transmitters in incorporating an equalizing valves and two block valves in differential pressure applications.

MANIFOLD VALVES

U-PRO

Two valves designs and material of construction

No.	Parts	Material
1	Handle Bar	Stainless Steel
2	Stem	ASTM A276 TYPE 316
3	Packing Bolt	ASTM A479 TYPE 316
4	Lock Nut	Stainless Steel
5	Bonnet	ASTM A479 TYPE 316
6	Gland	316 Stainless Steel
7a	Upper Packing	PTFE(optional Grafoil)
7b	Lower Packing	PTFE(optional Grafoil)
8	Stem Packing	PTFE(optional Grafoil)
9	Regulating tip	ASTM A479 TYPE 316
10	Global tip	ASTM A479 TYPE 316

Manifold Body : ASTM-SA-479 TYPE 316

Bonnet Lock Screw : 316 Stainless Steel

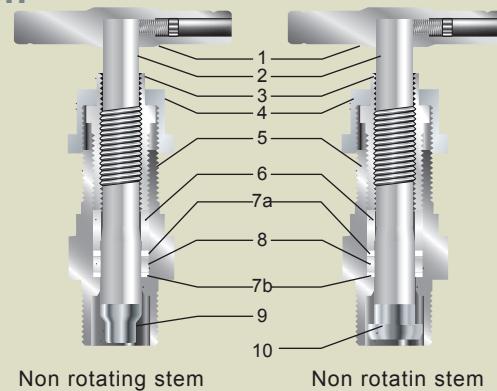
Option Grafoil packing is available high temperature applications.

No.	Parts	Material
1	Handle Bar	Stainless Steel
2	Stem	ASTM-A-276 TYPE 316
3	Packing Nut	ASTM-A-479 TYPE 316
4	Upper gland	ASTM-A-276 TYPE 316
5	Stem packing	PTFE(optional Grafoil)
6	Lower gland	ASTM-A-276 TYPE 316
7	Bonnet	ASTM-A-479 TYPE 316
8	Regulating tip	ASTM-A-479TYPE 316
9	Global tip	ASTM-A-479TYPE 316

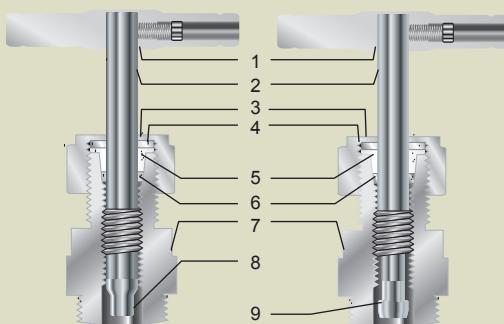
Manifold Body : ASTM-SA-479 TYPE 316

Bonnet Lock Screw : 316 Stainless Steel

Option Grafoil packing is available high temperature applications.



Non rotating stem
regulating tip
Non rotating stem
global tip
B type bonnet needle valves



Non rotating stem
regulating tip
Non rotating stem
global tip
N type bonnet needle valves

Ordering information and Technical data

HOW TO ORDER

Body style: **V**ertical
Manifold type: **3** Valve Manifold
Bonnet needle valves style : **N**

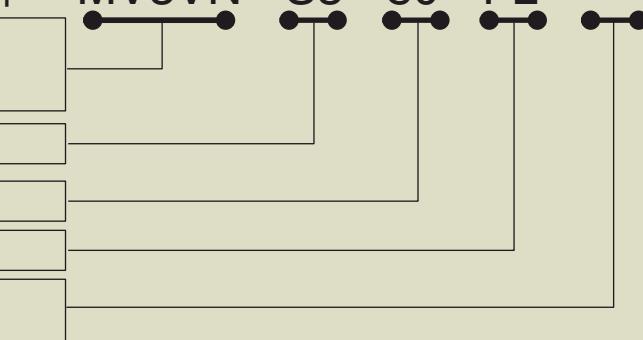
Body material : Stainless Steel

Process Connections : 1/2" Female NPT

Instrument Connections: **F**lange

Options : "-**G**" packing is **Grafoil**
"-**S**" Tip is **Global**

Example: MV3VN - S3 - 80 - FL -



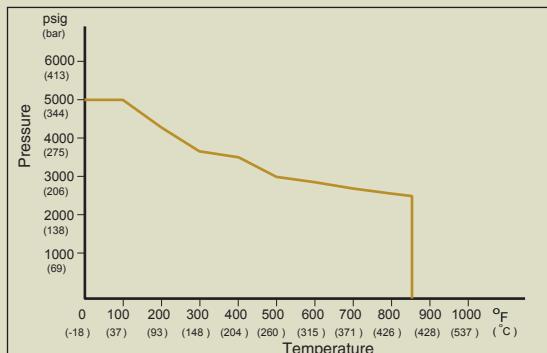
Orifice size

2 Valves manifold	0.125 in (3.2mm)
3 Valves manifold	0.156 in (4.0mm)

Pressure VS Temperature for ASME 2500 class

Material	Work pressure rating at TEMP
316 SS	5000 PSIG at 100°F (345 bar at 37°C)
	4220 PSIG at 200°F (291bar at 93°C)
	3180 PSIG at 500°F (219 bar at 260°C)
	2680 PSIG at 850°F (345bar at 454°C)

Max. work pressure and Max. TEMP Chart



Pressure VS Temperature for packing

Packing material	Flange seals material	Max. pressure rating at 200°F (93°C)	Pressure rating at Max. TEMP
PTFE	PTFE	6000 PSIG (413 bar)	4130 PSIG at 450°F (284 bar at 232°C)
Grafoil	Grafoil		1500 PSIG at 1000°F (103 bar at 537°C)

Testing

Each and every manifold valves is factory tested, include standard production test(nitrogen @ 1000psig to max. leak rate of 0.1SCCM) and optional hydrostatic test.

MANIFOLDS

MANIFOLD VALVES

U-PRO

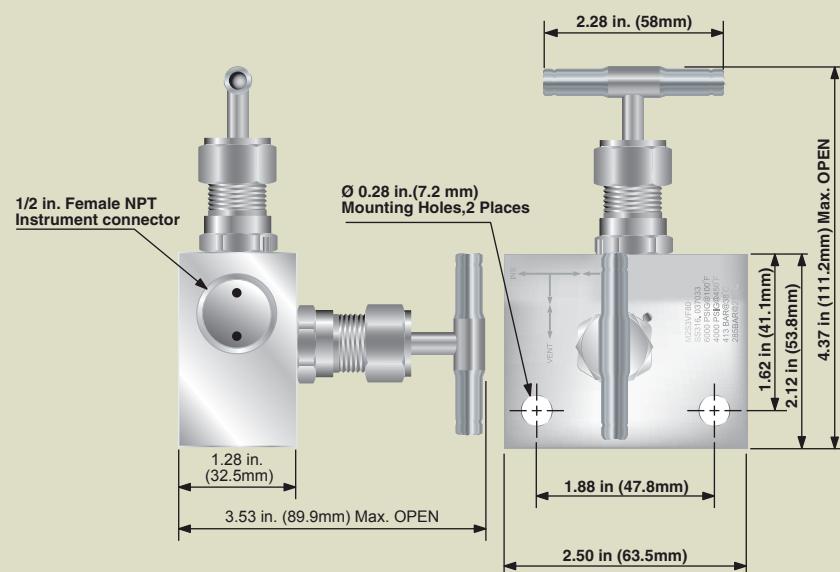
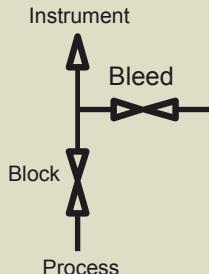
Dimensions

Two Valve

Remote mounting
Pipe to Pipe

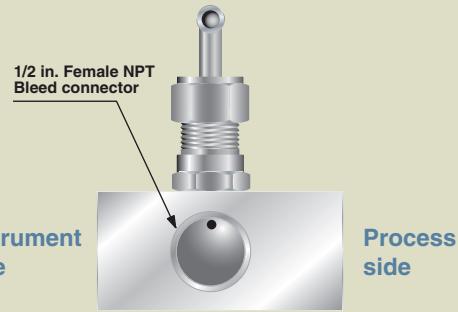
Designed for static pressure transmitter or gauge applications.

The 2-valve manifold Consist of one bleed valve and one block valve.



Ordering No.	Manifold body style	Bonnet valve design	End connection	Stem tip	Packing
MH2VN-S3-80	Horizontal	N type*	1/2 in Female NPT (P.T.) To 1/2 in Female NPT (P.T.)	NonR	PTFE
MH2VN-S3-80-G				Regulating	Grafoil
MH2VN-S3-80-S				NonR	PTFE
MH2VN-S3-80-SG				Global	Grafoil

* Not available on 2-valve manifolds with B type bonnet needle valve.



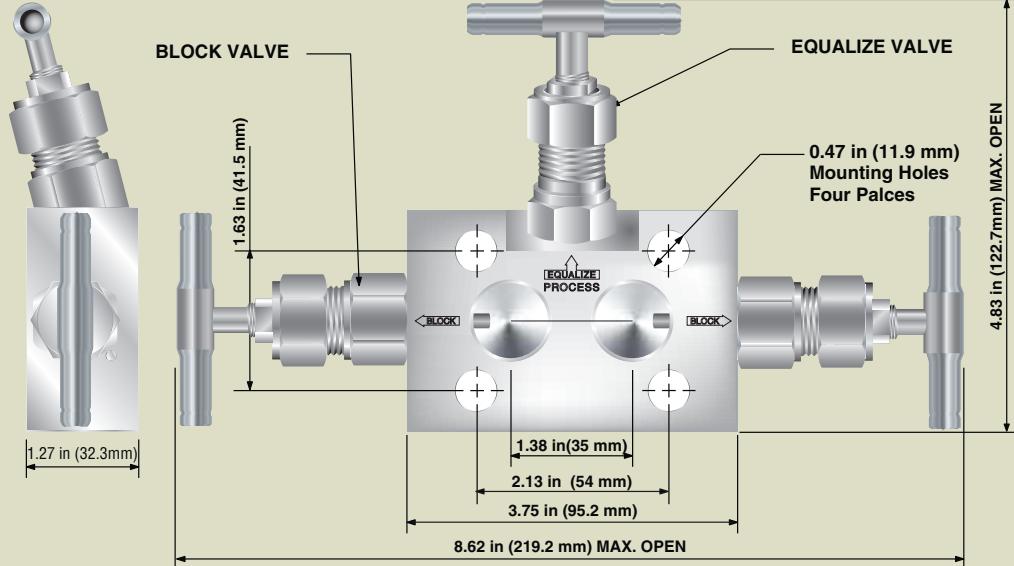
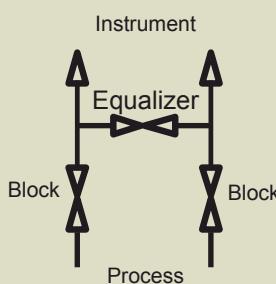
All dimensions are approximate and subject to change.

Three Valve

Direct mounting
Pipe to Flange

Designed for differential pressure transmitters applications.

The 3-valve manifold Consist of one equalizer valve and two block valves.



All dimensions are approximate and subject to change.

Ordering No.	Manifold body style	Bonnet valve design	End connection	Stem tip	Packing	
MV3VB-S3-80-FL	Vertical	B type *	1/2 in Female NPT (P.T.) To Flange (MSS)	NonR	PTFE	
MV3VB-S3-80-FL-G				Regulating	Grafoil	
MV3VB-S3-80-FL-S				NonR	PTFE	
MV3VB-S3-80-FL-SG				Global	Grafoil	
MV3VN-S3-80-FL		N type *		NonR	PTFE	
MV3VN-S3-80-FL-G				Regulating	Grafoil	
MV3VN-S3-80-FL-S				NonR	PTFE	
MV3VN-S3-80-FL-SG				Global	Grafoil	

*See Two valves designs and material of construction, page 2.

MANIFOLDS

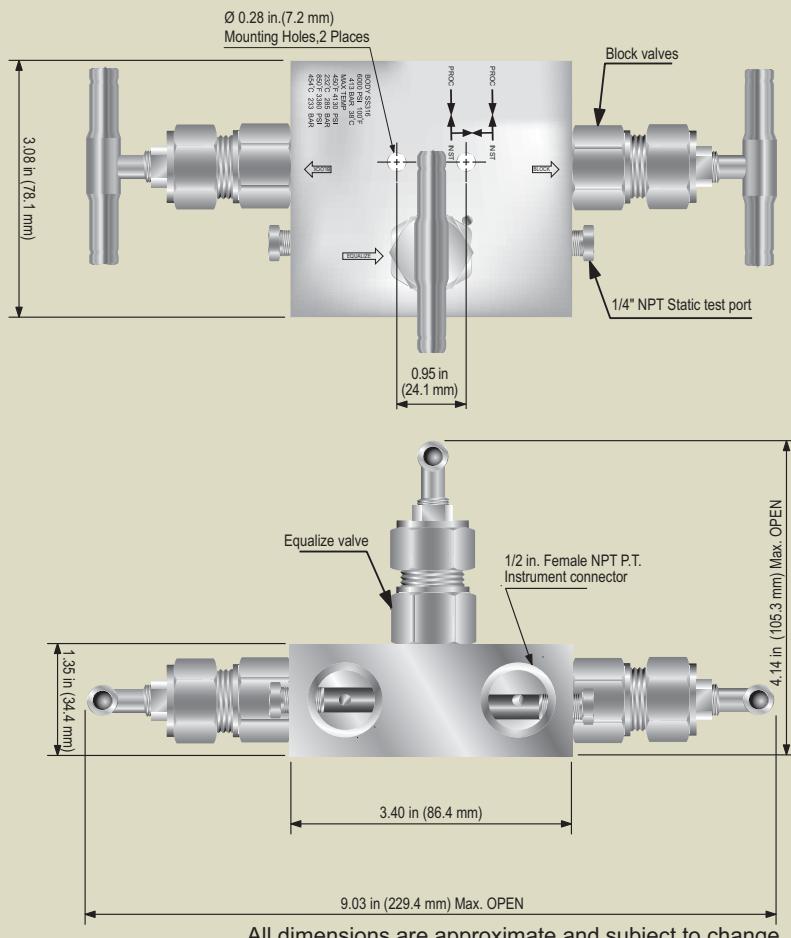
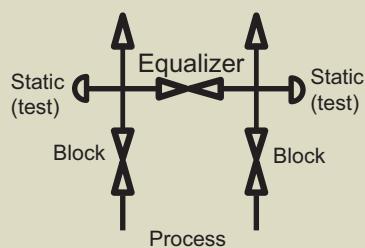
MANIFOLD VALVES

Three Valve

Remote mounting
Pipe to Pipe

Designed for use with differential pressure transmitters incorporating two block valves and an equalizing valve in differential pressure applications.

Instrument



All dimensions are approximate and subject to change.

Ordering No.	Manifold body style	Bonnet valve design	End connection	Stem tip	Packing	
MH3VB-S3-80	Horizontal	B type *	1/2 in Female NPT (P.T.) To 1/2 in Female NPT (P.T.)	NonR Regulating	PTFE	
MH3VB-S3-80-G				NonR Global	Grafoil	
MH3VB-S3-80-S				NonR Regulating	PTFE	
MH3VB-S3-80-SG				NonR Global	Grafoil	
MH3VN-S3-80		N type *		NonR Regulating	PTFE	
MH3VN-S3-80-G				NonR Global	Grafoil	
MH3VN-S3-80-S				NonR Regulating	PTFE	
MH3VN-S3-80-SG				NonR Global	Grafoil	

*See Two valves designs and material of construction, page 2.

WARNING

Operating conditions including but not limited to, system pressure, media compatibility and environmental conditions must be considered when selecting products and options. Improper selection and use of products could possibly cause failure and lead to possible property damage and/or personal injury.

U-PRO FITTINGS Inc

Main Products :

Electrical Conduits Fittings, Tube Fitting,
Tube Clamps, Needle Valves, Ball Valves,
Gauge Valves, Check Valves And Manifolds.

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