













INSTRUMENTATION MANIFOLDS VALVES

VM Series

www.unilok.com



Features

Pressure rating up to 6000psig (413bar) @38°C (100°F)

Temperature rating from -53°C(-65°F) to 232°C (450°F) with standard PTFE packing, up to 648°C (1200°F) with Grafoil packing

Hardened stem threads and one piece of bar stock or forged body for long cycle life

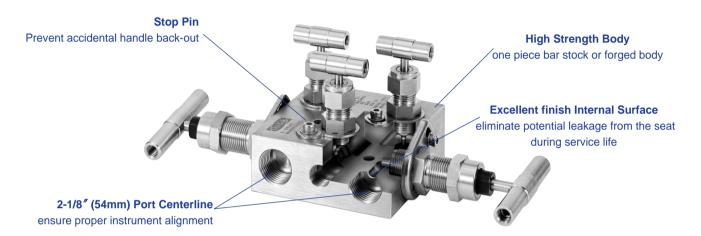
Bonnet stop pin prevents accidental handle back-out

Non-rotating stem for leak-right shut-off and long cycle life

Burr-free internal surface

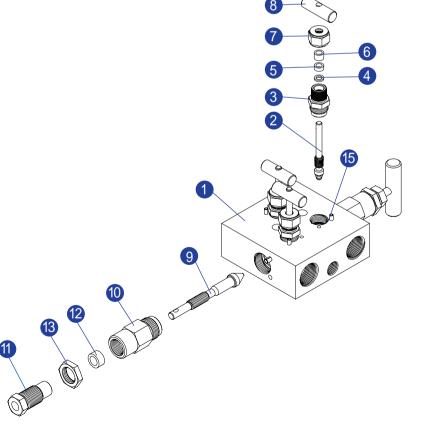
Manifold feature a 4:1 safety factor

2-1/8"(54mm) port centerline dimension for proper alignment



Materials of Construction

No.	Description	Materials
1	Body	316SS
2	Stem	316SS
3	Spindle Bushing	316SS
4	Packing Ring	316SS
5	Packing	PTFE
6	Gland	316SS
7	Valve Nut	304SS
8	Bar Handle	304SS
9	Stem	316SS
10	Bonnet	316SS
11	Spindle Bushing	316SS
12	Packing	PTFE
13	Jam Nut	316SS
14	Bar Handle	304SS
15	Stop Pin	304SS
16	Set Screw	304SS





Application

2 Way Manifolds - Static pressure and liquid level applications

3 & 5 Way Manifolds - Most differential pressure transmitters with both female and flange process impulse line connections

Sour Environment Services

Uni-Lok valves are comply with NACE MR-0175/ISO 115156 for sour oilfield application or NACE MR-0103 for petroleum refining operations.

To order, add-N to the end of part number.

Cleaning

Uni-Lok valves are free from machine oils, loose particles and grease throughout the close cleaning process.

How To Order

Uni-Lok VM series manifolds valves are ordered by part number as shown as below.

Testing

Every valve is 100% factory tested with air and nitrogen at 1000psig(69bar) for leakage at the seat and packing. Each test is performed to a maximum allowable leak rate of 0.1scc/min.

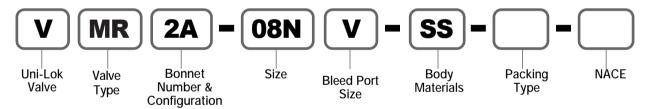
Hydrostatic shell test to be performed at 1.5 time of the working pressure is available as optional.

Important Notification

Proper installation, materials compatibility, operation and maintenance of these valves are the responsibility of the user. The total system design must be taken into consideration to ensure optimal performance and safety.

The packing adjustment may be required during the valve's service life.

Example: The following part number, **VMR2A-08N-SS** is designated for VMR series manifolds valve with both 1/2" Female NPT Threads, 316SS, PTFE packing.



Valve Type				
MR	Remote Mounting			
MD	Direct Mounting			
MFL	Direct Mounting with Single Flange			
MFLD	Direct Mounting with Double Flanges			

Bonnet Valve Number & Configuration			
2 2 Way			
3 3 Way			
5 5 Way			

For more details, refer to Visual Index of Manifolds Valve on page 4.

Body Materials			
SS 316SS			
MO Alloy 400			

Other alloys are available upon request.

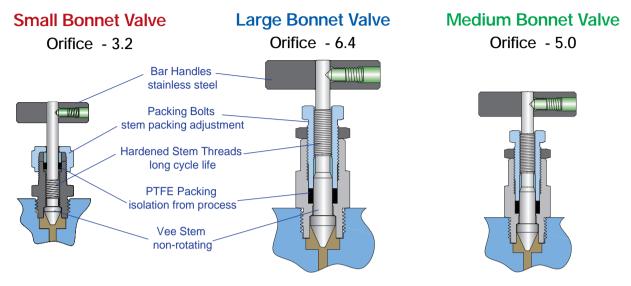
Pipe Size Designation (NPT)					
Pipe Size 1/2 1/4					
Designator 08N 04N					

1/4" Female NPT, bleed port is available as optional.

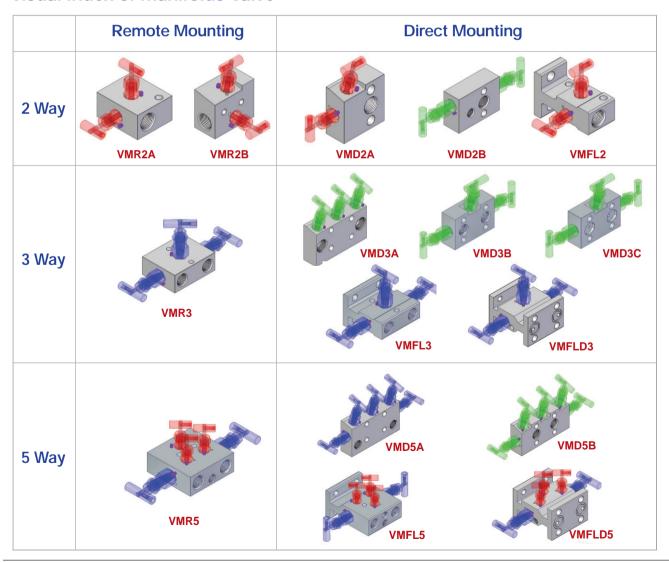
Packing Materials				
Nil PTFE				
GF	Grafoil			



Bonnet Specification



Visual Index of Manifolds Valve



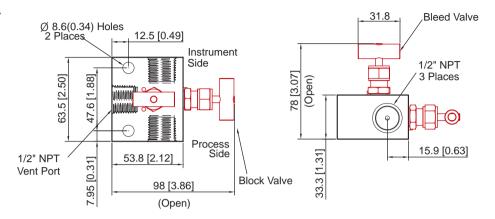
VMR series

(2 & 3 Way, Remote Mounting Type)

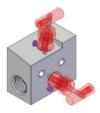
VMR2A-08N-



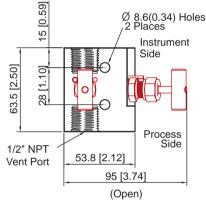


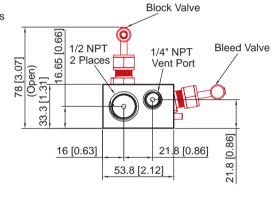


VMR2B-08N-



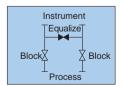


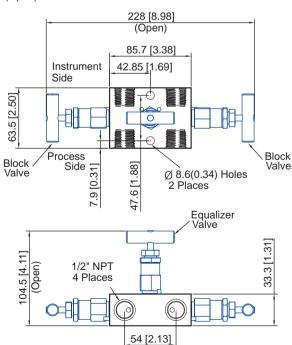


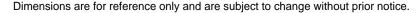


VMR3-08N-









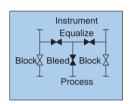


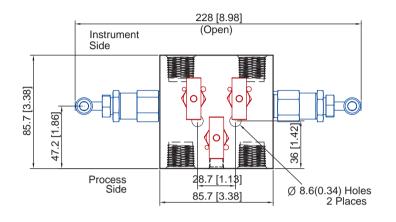
VMR series

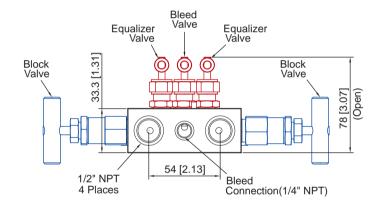
(5Way, Remote Mounting Type)

VMR5-08N-





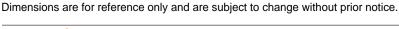




Pressure - Temperature Ratings by Packing Materials

Packing Body Material Material	Temperature Rating		Pressure Rating at 37° C (100° F)		Pressure Rating at Maximum Temperature				
ivialeriai	ivialeriai	°C	°F	psig	bar	psig	bar	°C	°F
PTFE	316SS	-54~232	-65~450	6000	413	4130	285	232	450
7116	Alloy 400	-54~232	-65~450	5000	345	3970	274	232	450
Crofoil	316SS	-54~648	-65~1200	6000	413	1715	118	648	1200
Grafoil	Alloy 400	-54~260	-65~500	5000	345	3970	274	260	500

Alloy 400/Monel is not applicable over 260° C (500° F).

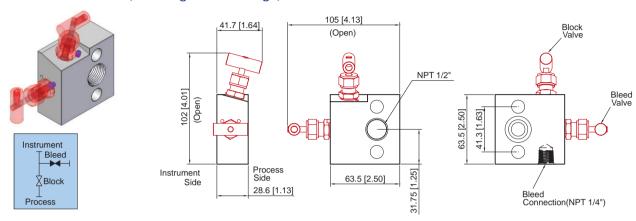




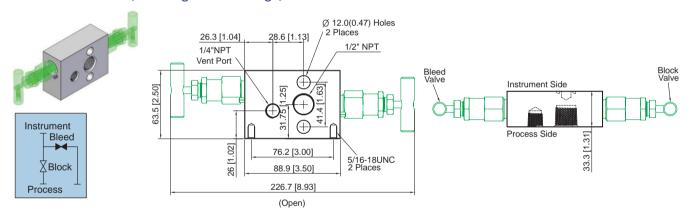
VMD series

(2 & 3 Way, Direct Mounting Type with Block Flange)

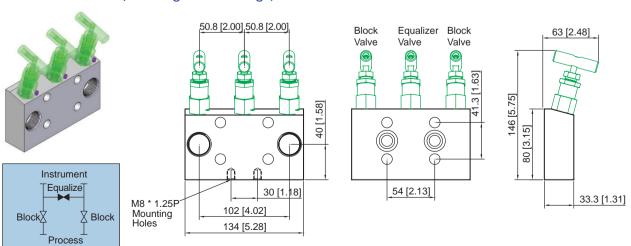
VMD2A-08N- (with single block flange)



VMD2B-08N- (with single block flange)



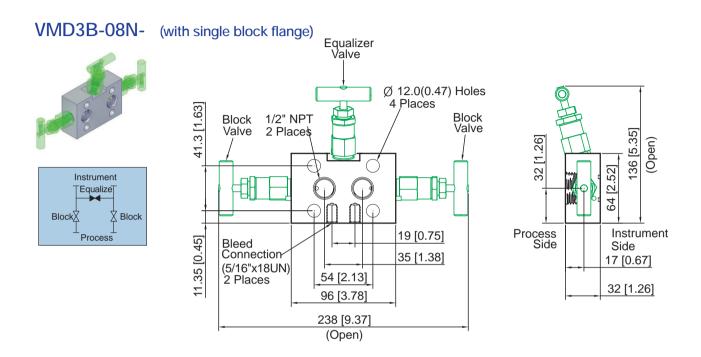
VMD3A-08N- (with single block flange)



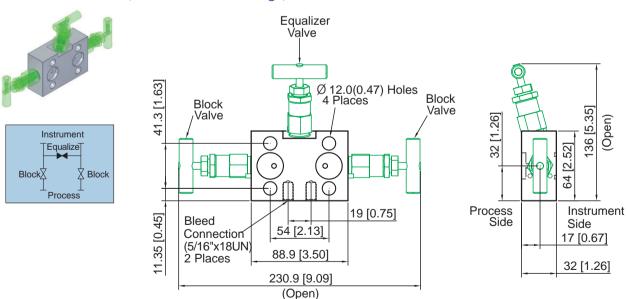


VMR series

(3Way, Direct Mounting Type with Block Flange)



VMD3C-08N- (with double block flange)





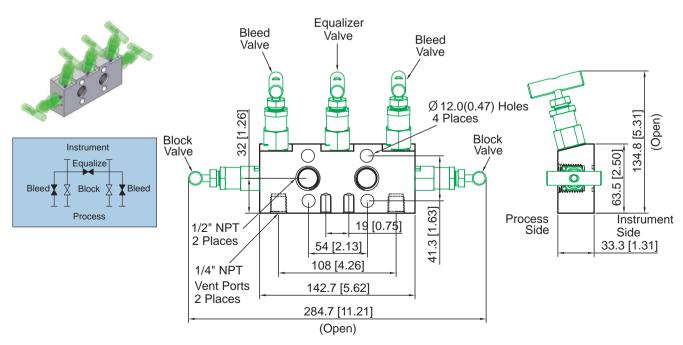
VMD series

(5Way, Direct Mounting Type with Block Flange)

VMD5A-08N- (with single block flange) Equalizer . Valve Block Block Valve Valve Ø 12.0(0.47) Holes 4 Places Bleed Valve Bleed Valve (Open) 52 | Instrument [3.15] # Equalize 80 Bleed Bleed Block Process Side **Process** Instrument 54 [2.13] 1/2" NPT Side Bleed Connection 2 Places 76 [2.99] (1/4"NPT) 33.3 [1.31] M8 * 1.25P Mounting 108 [4.26] 145 [5.71] Holes 287 [11.3]

(Open)

VMD5B-08N- (with single block flange)

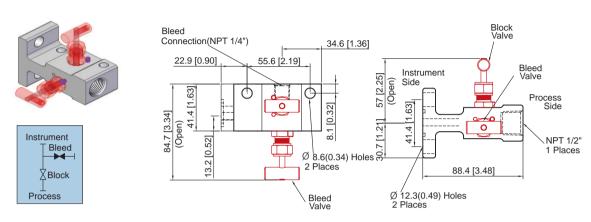




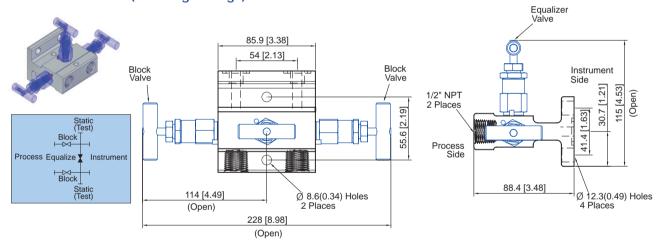
VMFL series

(2 & 3 Way, Direct Mounting Type with Flange)

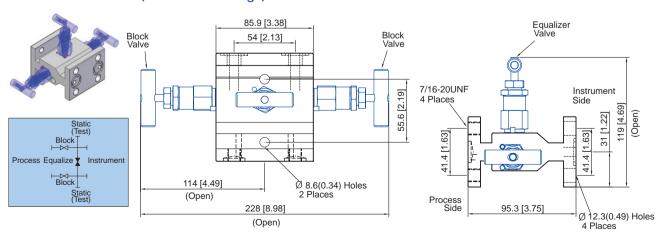
VMFL2-08N- (with single flange)



VMFL3-08N- (with single flange)



VMFLD3-08N- (with double flange)

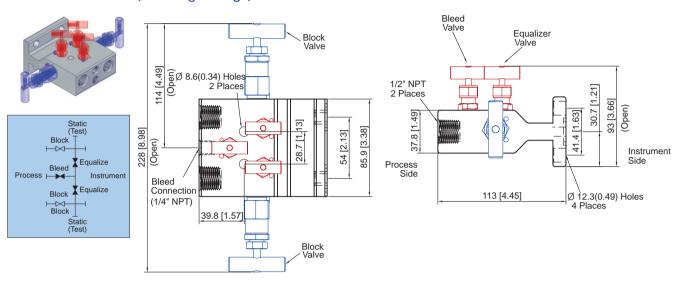




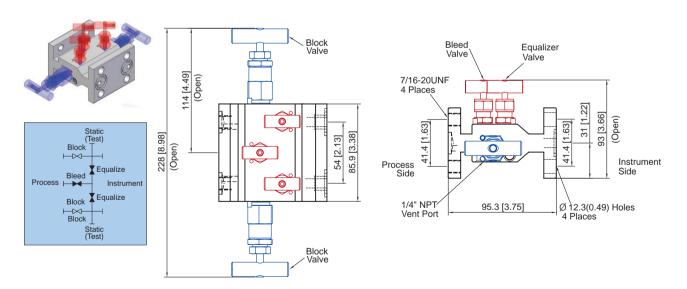
VMFL series

(5Way, Direct Mounting Type with Flange)

VMFL5-08N- (with single flange)



VMFLD5-08N- (with double flange)



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Pressure - Temperature Ratings of 316SS Construction

Temperature		Working Pressure				
rempe			FE	Grafoil		
°C	°F	psig bar		psig	bar	
37	100	6000	413	6000	413	
93	200	5160	355	5160	355	
121	250	4910	338	4910	338	
148	300	4660	321	4660	321	
176	350	4470	307	4470	307	
204	400	4280	294	4280	294	
232	450	4130	284	4130	284	
260	500	-	-	3980	274	
287	550	-	-	3870	266	
315	600	-	-	3760	259	
343	650	-	-	3700	254	
371	700	-	-	3600	248	
398	750	-	-	3520	242	
426	800	-	-	3460	235	
454	850	-	-	3380	232	
482	900	-	-	3280	225	
510	950	-	-	3220	221	
537	1000	-	-	3030	208	
565	1050	-	-	3000	206	
593	1100	-	-	2685	184	
621	1150	-	-	2285	157	
648	1200	-	-	1715	118	

Mounting Bracket Kit

Mounting bracket kit contains bracket, U-bolt and nut, bolt, nut and washer for horizontal and vertical manifold mounting. Materials are 304SS.



Part number for ordering is VMP-BK-SS.

Bonnet Valve Kit

Bonnet valves are available for replacement.

Part Number	Bonnet Valve Size	Packing Material
VMP-BV-S	Small	
VMP-BV-M	Medium	PTFE
VMP-BV-L	Large	

Dimensions are for reference only and are subject to change without prior notice.

















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