

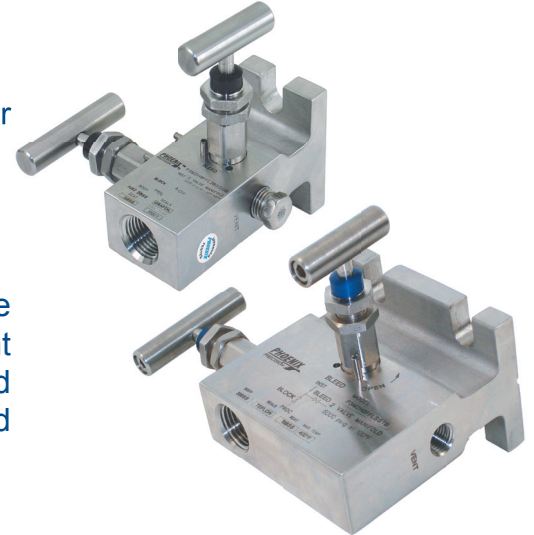


P3M2H™ 2-VALVE MANIFOLD

2-VALVE MANIFOLD

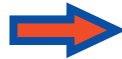
3/16" Bore 2-Valve Manifold

The 2-valve block and bleed manifold is a cost effective choice for static pressure measurement. The valve is designed with a built-in vent/calibration port and is available in two-bolt of four-bolt configurations. The manifold features a valve body manufactured from extruded solid bar, robust stems and Parker's unique globe pattern design which ensures a bubble tight seal. Bonnets are pinned for safety. Two standard mount holes are provided for bracket support. The 2-valve block and bleed manifold is available in a variety of stem tips, materials and configurations that meet most application requirements.

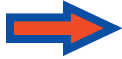


Standard Features

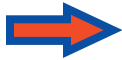
Hydrotested at 150% of rated pressure (shell test). Nitrogen gas tested to 2000 psi.



Seat tightness (zero leakage) verified to 110% of rated pressure. Nitrogen gas tested to 2000 psi.



Packing below stem threads



Metal body-to-bonnet seals are in compression, not tension



Stem threads are rolled, not cut



8 RMS stem finish



V-Style Teflon™ packing



Pressure component materials sourced from the US, Canada or Europe



Benefits

Complies with ASME B31.1 & B31.3 shell testing procedures as standard. Ensures structural integrity of valve.

Complies with ASME B31.1 & B31.3 seat testing procedures as standard. Ensures zero leakage at seats for proper calibration.

Prevents corrosion of critical stem threads

Mitigates risk of stress cracking

Higher quality stem for longer service life

Extended packing life

30-40% less operational torque and less frequent packing adjustments than traditional Teflon™ packed valves

Reliable material traceability. MTR's provided with every order for pressure containing components.

Solutions for Oil & Gas and Petrochemical Processing

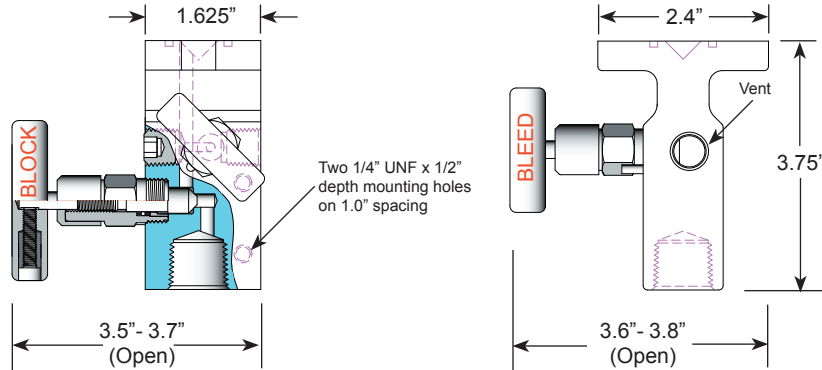




P3M2H™ 2-Valve Manifold

Technical Specifications

Pipe x Flange (2-Bolt) Configuration

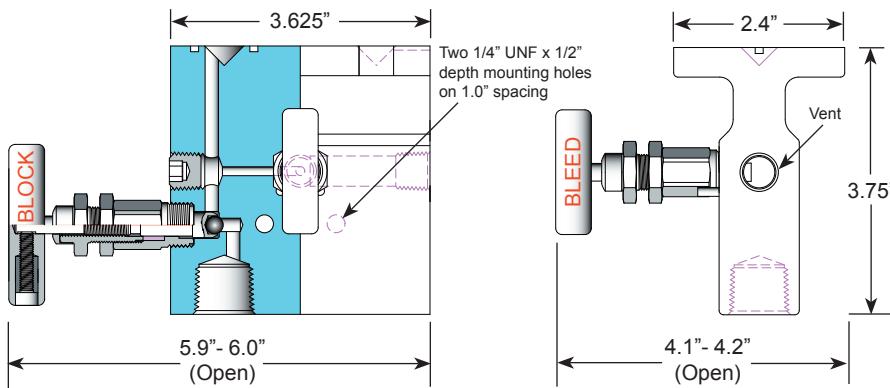


Specifications:

Type: **P3M2H**, 2-valve Manifold, Globe Pattern
 Rating: Up to 6000 psi @ 100°F
 (41370 kPa @ 38°C)
 Stem: Needle tip or Ball tip
 Packing: Viton™ O-ring, Teflon™ or Grafoil™
 Seat: Integral
 Handle: Removable
 Bore Size: 3/16" (Primary), 1/8" (Bleed)
 Inlet Connections: FNPT
 Outlet Connections: 2-Bolt Flange, 1/4" FNPT Bleed
 Bonnet Lock: Pin or Plate
 Body Stock: 1.625" x 3.750" x 2.4" x 1.125"
 Weight: 2.6 - 2.7 lbs
 Special Service: O₂ or CL cleaning available*

*Other specifications or services may be available.

Pipe x Flange (4-Bolt) Configuration

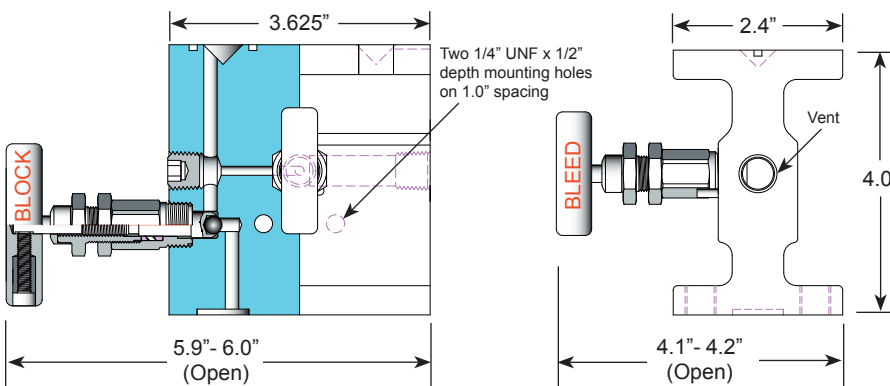


Specifications:

Type: **P3M2H**, 2-valve Manifold, Globe Pattern
 Rating: Up to 6000 psi @ 100°F
 (41370 kPa @ 38°C)
 Stem: Needle tip or Ball tip
 Packing: Viton™ O-ring, Teflon™ or Grafoil™
 Seat: Integral
 Handle: Removable
 Bore Size: 3/16" (Primary), 1/8" (Bleed)
 Inlet Connections: FNPT
 Outlet Connections: 4-Bolt Flange, 1/4" FNPT Bleed
 Bonnet Lock: Pin or Plate
 Body Stock: 3.625" x 3.750" x 2.4" x 1.125"
 Weight: 4.6 - 4.7 lbs
 Special Service: O₂ or CL cleaning available*

*Other specifications or services may be available.

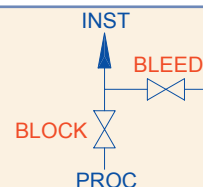
Flange x Flange Configuration



Specifications:

Type: **P3M2H**, 2-valve Manifold, Globe Pattern
 Rating: Up to 6000 psi @ 100°F
 (41370 kPa @ 38°C)
 Stem: Needle tip or Ball tip
 Packing: Viton™ O-ring, Teflon™ or Grafoil™
 Seat: Integral
 Handle: Removable
 Bore Size: 3/16" (Primary), 1/8" (Bleed)
 Inlet Connections: 4-Bolt Flange
 Outlet Connections: 4-Bolt Flange, 1/4" FNPT Bleed
 Bonnet Lock: Pin or Plate
 Body Stock: 3.625" x 4.0" x 2.4" x 1.125"
 Weight: 5.0 - 5.1 lbs
 Special Service: O₂ or CL cleaning available*

*Other specifications or services may be available.

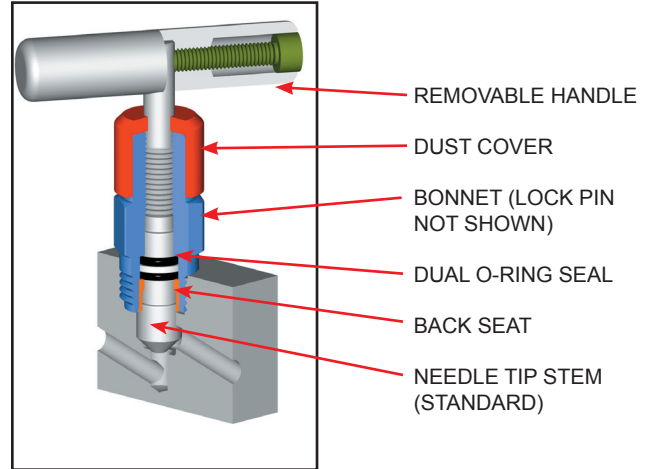




P3M2H™ 2-Valve Manifold Bonnet, Stem and Seat Characteristics

O-Ring Bonnet Assembly

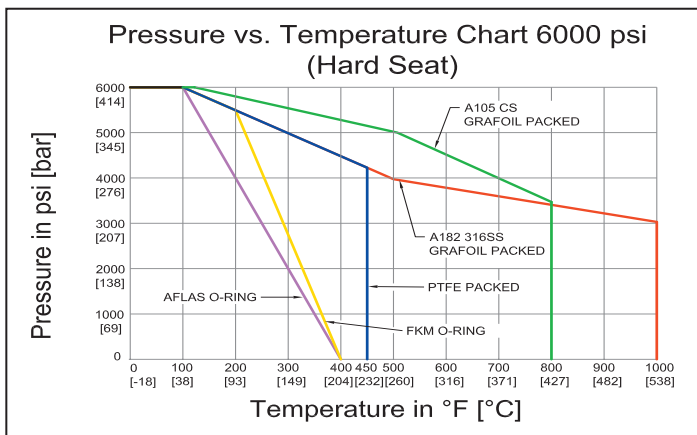
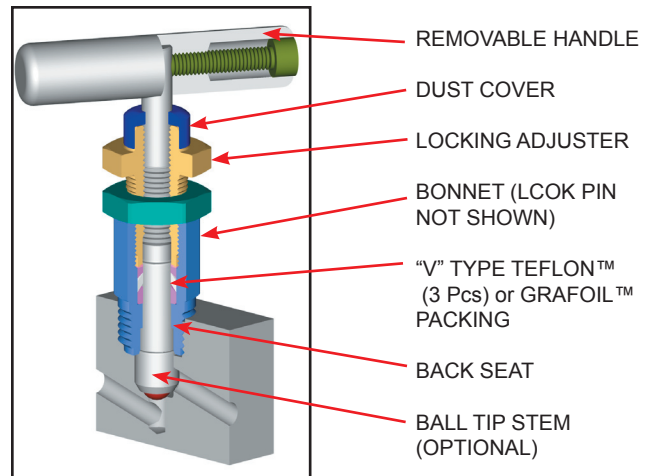
Standard Materials					
Valve	Body	Bonnet	Stem	Ball	Packing
CS	ASTM A108CS	ASTM A108CS	ASTM A582 303SS	SEE OPTION CODES ON PAGE 4	Dual Viton™ O-ring with Teflon™ backup ring
SC	ASTM A105CS	ASTM A182 316SS	ASTM A182 316SS		
316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A182 316SS		



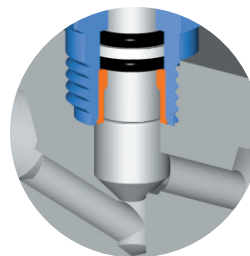
Teflon™ or Grafoil™ Bonnet Assembly

Standard Materials					
Valve	Body	Bonnet	Stem	Ball	Packing
CS	ASTM A108CS	ASTM A108CS	ASTM A582 303SS	SEE OPTION CODES ON PAGE 4	Teflon™ and Grafoil™
SC	ASTM A105CS	ASTM A182 316SS	ASTM A182 316SS		
316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A182 316SS		

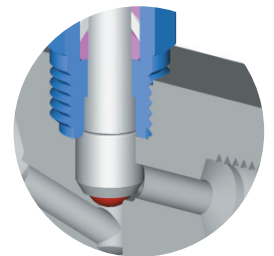
NOTE: Low torque Grafoil™ available (G4 Packing Code)



Stem and Seat Configurations



Needle Tip (Standard)



Ball Tip (Optional)

Note: Body material specifications based on ASME B16.34 - 2013. Packing material ratings based on manufacturer's specifications. Approximations only. Parker does not represent these values as finite. They are provided only as representative values.



P3M2H™ 2-Valve Manifold Model Numbering System

Parker	Orifice Size	Type	Inlet Size	Inlet Type	Outlet Size	Outlet Type	Material	Packing	Seat	Stem Tip	Option Codes	Description
P	3=3/16"	M2H	8=1/2"	F=FNPT		FL=Flange	SS=ASTM A182 316/316L	A=Aflas™	Integral (leave blank)	Needle Tip Standard (leave blank)	LB	Bonnet Lock
				FL=Flange		FL2B=2 Bolt Flange	SC=ASTM A105 CS*	V=Viton™ (FKM)		B=316SS Ball Tip	CC	Chlorine Clean
				FT=Female Tube Fitting			CS=ASTM A108 CS*	T=Teflon™ (PTFE)		BC=Ceramic Ball Tip	OC	Oxygen Clean
							C5=ASTM A350 LF2	G=Grafoil™		BM=Monel™ Ball Tip	TG	SS Tag
							N4=Monel™ 400	G4= Low Torque Grafoil™			SGI	Sour Gas ISO NACE Latest Rev.
							N6=Inconel™ 625				N4	Monel™ 400 Stem
							N8=Inconel™ 825				N5	Monel™ 500 Stem
							N2=Hastelloy™ C276				N6	Inconel™ 625 Stem
											N8	Inconel™ 825 Stem
											N2	Hastelloy™ C276 Stem
											H(V)MB	Horizontal (Vertical) Mounting Bracket
											H(V)MBS	SS Horizontal (Vertical) Mounting Bracket
											S6	316 SS Bolts
											225CS	2.25" CS Bolts
											225S4	2.25" 304 SS Bolts
											225S6	2.25" 316 SS Bolts
											TB	1/4" FNPT Test Ports Bottom
											PB	1/4" FNPT Purge Ports Bottom
											B7	AISI 4140/4142 QT
											B8C1	Class 1, 304SS, ST
											B8MC1	Class 1, 316SS, ST
											B8C2	Class 2, 304SS, ST, SH
											B8MC2	Class 2, 316SS, ST, SH
EXAMPLE: P3M2H8FFLSSTB = 3/16" Orifice, 2-Valve Manifold, 1/2" FNPT Inlet, Flange Outlet, 316 SS Body, Teflon™ Packing, Integral Seat, 316 SS Ball Tip Stem												
P	3	M2H	8	F		FL	SS		T		B	

*For code applications, A105 CS must be selected for CS valves. Code grade bolts must be specified for code applications.
Note: **Standard Bolting Options**, **CS** - carbon steel, Gr.8, zinc plated bolts; **SS** - stainless steel, 18.8 (304SS) bolts.

Use with Confidence, Parker Products Meet the Following Specifications:

- ✓ ASME B31.1 Power Piping
- ✓ ASME B31.3 Process Piping
- ✓ ASME B16.34 Valves - Flanged, Thread, and Welding End
- ✓ API 598 Valve Inspection and Testing
- ✓ MSS SP-25 Standard Marking Systems for Valves, Fittings and Flange Unions
- ✓ MSS SP-99 Instrument Valves
- ✓ MSS SP-105 Instrument Valves for Code Applications
- ✓ NACE MR0175 for all 316SS valves and A105CS body/ 316SS bonnet (SC Material Code)

Code Bolting Information	
1.	B7, B8C1, B8MC1, B8C2, B8MC2 are code grades to ASTM A193;
2.	To specify code grade bolting, example: 225B7 indicates 2.25" bolt length; B7 grade, alloy steel, AISI 4140/4142
3.	QT-Quenched & Tempered; ST-Carbide Solution Treated; SH-Strain Hardened

Seal and Seat Material Temperature Rating

Code	Description	MIN. TEMP	MAX. TEMP
A	Aflas™	15°F (-10°C)	400°F (204°C)
V	Viton™	-20°F (-29°C)	400°F (204°C)
T	Teflon™	-65°F (-54°C)	450°F (232°C)
G	Grafoil™ (SS Body)	-70°F (-56°C)	1000°F (537°C)
	Grafoil™ (CS Body)	-70°F (-56°C)	800°F (427°C)

Note: Grafoil™ is suitable for services in excess of 1000°F in a non-oxidizing environment.

For further information please contact:



Parker Hannifin Canada
Instrumentation Group
2620 21st Street N.E.
Calgary, Alberta T2E 7L3
Phone:(403) 291-3154
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