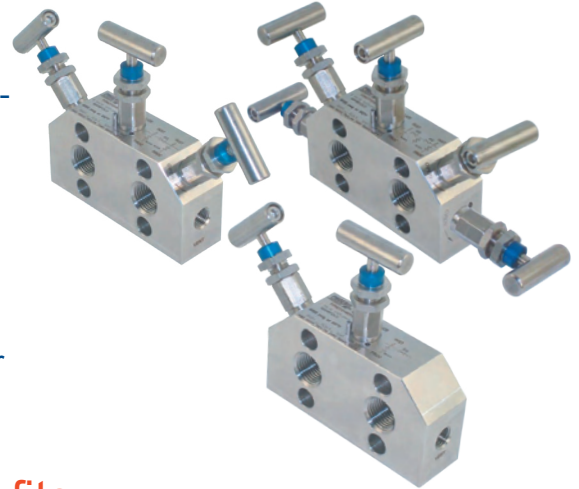


COPLANAR STYLE MANIFOLD

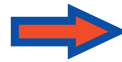
1/8" Bore Coplanar Manifold

The 1/8" bore coplanar manifold mounts directly to a coplanar-style transmitter (i.e.: Rosemount™ 3051 Series transmitters) eliminating the need for a coplanar flange. The globe-style manifold affords maximum shut-off and is available in 2-valve, 3-valve, 5-valve gas and 5-valve power configurations in a variety of materials and a range of special tips. The manifold includes robust stems, pinned bonnets, and two mount holes for connecting to Phoenix's bracket mount. Mounting holes for alternate bracket mounts are available.

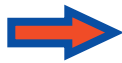


Standard Features

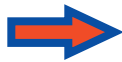
Hydrotested at 150% of rated pressure (shell test). Nitrogen gas tested to 2000 psi.



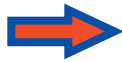
Seat tightness (zero leakage) verified to 110% of rated pressure. Nitrogen gas tested to 2000 psi.



Packing below stem threads



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



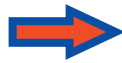
Stem threads are rolled, not cut



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

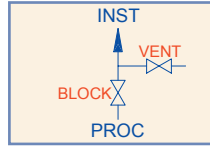
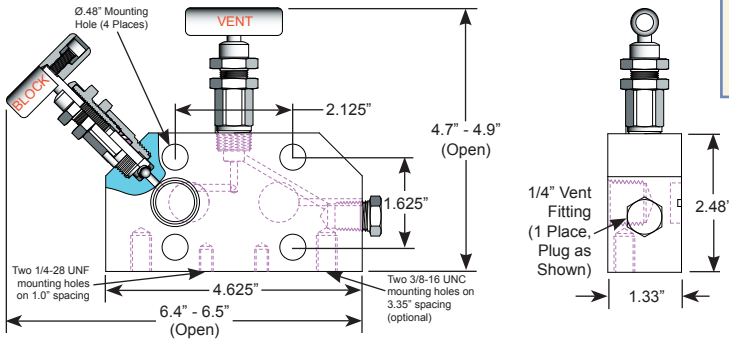
Extended packing life

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.

P2MCP™ 2-, 3-, 5-Valve Coplanar Technical Specifications

2 - Valve Configuration

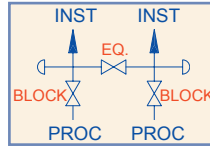
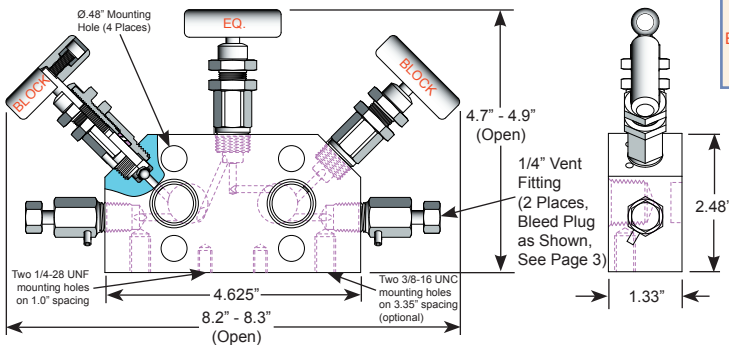


Specifications:

Type: **P2MCP2H** Valve, Globe Pattern
 Rating: Up to 6000 psi @ 100°F
 (41370 kPa @ 38°C)
 Stem: Needle tip or Ball tip
 Packing: Aflas™, Viton™ O-ring, Teflon™ or Grafoil™
 Seat: Integral
 Handle: Removable
 Bore Size: 1/8"
 Inlet Connections: 1/2" FNPT
 Outlet Connections: Flange
 Vent Port: 1/4" FNPT (1 Place, includes 1/4" Fitting, See Page 3)
 Bonnet Lock: Pin or Plate
 Body Stock: 4.625" x 2.48" x 1.33"
 Weight: 3.90 lbs
 Special Service: O₂ or CL cleaning available*

*Other specifications or services may be available

3 - Valve Configuration

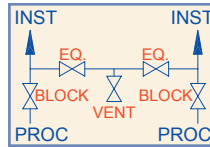
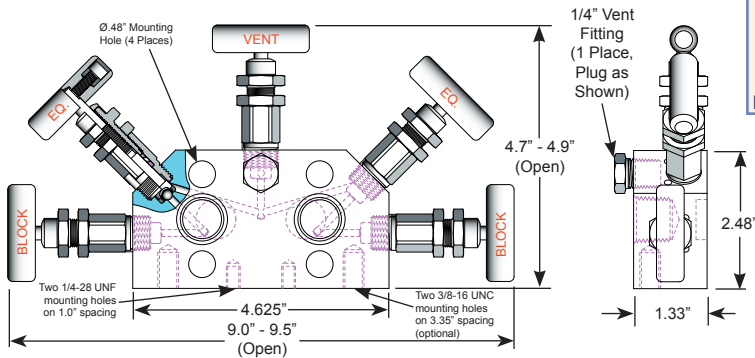


Specifications:

Type: **P2MCP3H** Valve, Globe Pattern
 Rating: Up to 6000 psi @ 100°F
 (41370 kPa @ 38°C)
 Stem: Needle tip or Ball tip
 Packing: Aflas™, Viton™ O-ring, Teflon™ or Grafoil™
 Seat: Integral
 Handle: Removable
 Bore Size: 1/8"
 Inlet Connections: 1/2" FNPT
 Outlet Connections: Flange
 Vent Port: 1/4" FNPT (2 Places, includes 1/4" Fittings, See Page 3)
 Bonnet Lock: Pin or Plate
 Body Stock: 4.625" x 2.48" x 1.33"
 Weight: 4.18 lbs
 Special Service: O₂ or CL cleaning available*

*Other specifications or services may be available.

5 - Valve Configuration (Gas)

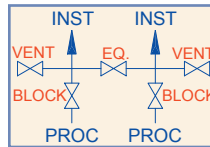
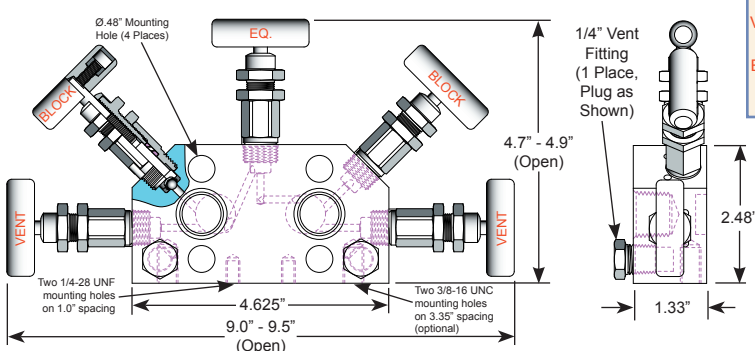


Specifications:

Type: **P2MCP5H** Valve, 1-Vent, 2-Equalize, Globe Pattern
 Rating: Up to 6000 psi @ 100°F
 (41370 kPa @ 38°C)
 Stem: Needle tip and Ball tip
 Packing: Aflas™, Viton™ O-ring, Teflon™ or Grafoil™
 Seat: Integral
 Handle: Removable
 Bore Size: 1/8"
 Inlet Connections: 1/2" FNPT
 Outlet Connections: Flange
 Vent Port: 1/4" FNPT (1 Place, includes 1/4" Fitting, See Page 3)
 Bonnet Lock: Pin or Plate
 Body Stock: 4.625" x 2.48" x 1.33"
 Weight: 4.72 lbs
 Special Service: O₂ or CL cleaning available*

*Other specifications or services may be available.

5 - Valve Configuration (Power)



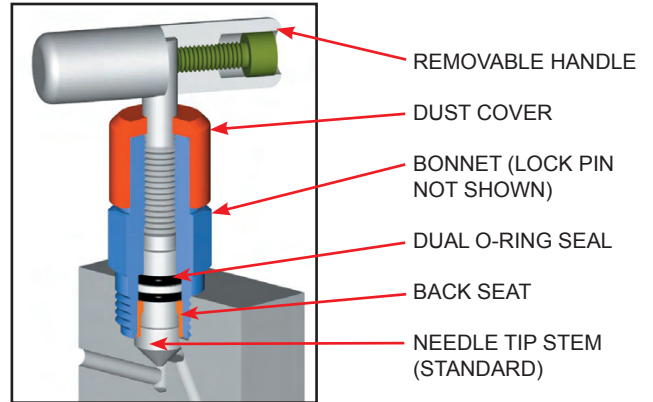
Specifications:

Type: **P2MPC5H** Valve, 2-Vent, 1-Equalize, Globe Pattern
 Rating: Up to 6000 psi @ 100°F
 (41370 kPa @ 38°C)
 Stem: Needle tip and Ball tip
 Packing: Aflas™, Viton™ O-ring, Teflon™ or Grafoil™
 Seat: Integral
 Handle: Removable
 Bore Size: 1/8"
 Inlet Connections: 1/2" FNPT
 Outlet Connections: Flange
 Vent Port: 1/4" FNPT (2 Places, includes 1/4" Fittings, See Page 3)
 Bonnet Lock: Pin or Plate
 Body Stock: 4.625" x 2.48" x 1.33"
 Weight: 4.72 lbs
 Special Service: O₂ or CL cleaning available*

*Other specifications or services may be available.

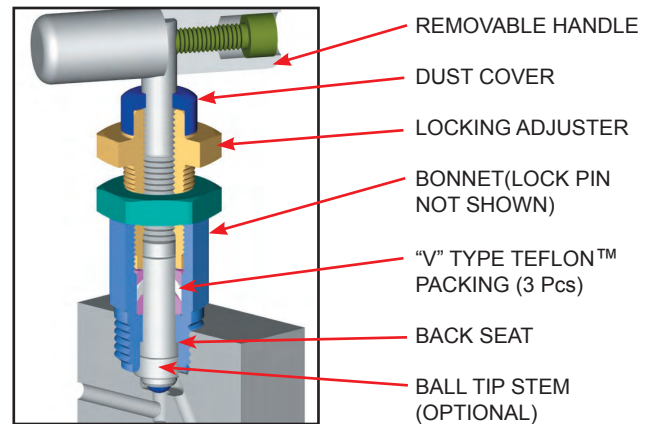
O-Ring Bonnet Assembly

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		



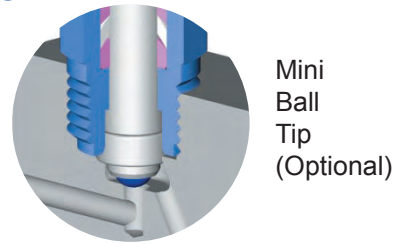
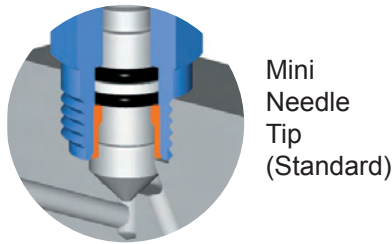
Packed Bonnet Assembly

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		

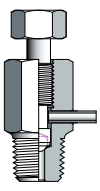



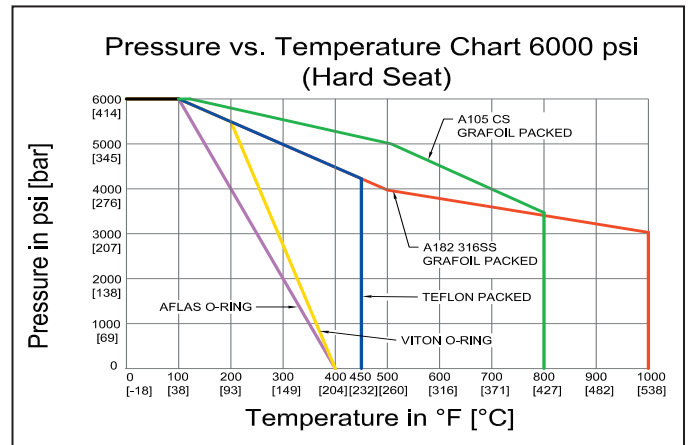
NOTE: Optional low torque Grafoil™ available (G4 Packing Code)

Stem and Seat Configurations



Vent Fitting Options

Standard Specifications	
	<p>Bleed Plug: P2BP4M Specifications: Rating: 6000 psi @ 100°F (41370 kpa @ 38°C) Stem: Ball Tip Stem Seat: Integral Handle: 1/2" Hex Connections: 1/4" NPT Hex Size: 5/8" Weight: 0.18 lbs (Length: 1.5" open installed) *Add SS for A182 316SS, CS for A108CS</p>
	<p>1/4" Pipe Plug: PP4M Specifications: Rating: 10000 psi @ 100°F (68950 kpa @ 38°C) Hex Size: 5/8" Weight: 0.045 lbs (Length: 0.7") *Add SS for A182 316SS, CS for A108CS</p>



Note: Body material specifications based on ASME B16.34 - 2009. Packing material ratings based on manufacturer's specifications. Approximations only. Phoenix does not represent these values as finite. They are provided only as representative values.

P2MCP™ 2-, 3-, 5-Valve Coplanar Model Numbering System

Phoenix	Orifice Size	Type	Inlet Size	Inlet Type	Outlet Size	Outlet Type	Material	Packing	Seat	Stem Tip	Option Codes	Description
P	2=1/8"	MCP2H (2-Valve Coplanar)	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
		MCP3H (3-Valve Coplanar)					SC=ASTM A105 CS*	V=Viton™ (FKM)		B=316SS Ball Tip	CC	Chlorine Clean
		MCP5H (5-Valve Coplanar)					CS=ASTM A108 CS*	T=Teflon™ (PTFE)		BC=Ceramic Ball Tip	OC	Oxygen Clean
		MPCP5H (5-Valve, Power Style)					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				RLR	Round Large Red Aluminum Handle for Bleed (Vent)
							N8=Inconel™ 825				RC	Round Handle CS
							N2=Hastelloy™ C276				RS	Round Handle SS
EXAMPLE: P2MCP3H8FFLSSTB = Phoenix, 1/8" Orifice, Coplanar, 3-Valve, 1/2" MNPT Inlet, Flange Outlet, 316 SS Body, Teflon™ Packing, Integral Seat, 316 SS Ball Tip Stem												
P	2	MCP3H	8	F		FL	SS	T		B	N4	Monel™ 400 Stem
* For code applications, A108 CS is unacceptable, A105 CS must be selected for CS valves.												
											N5	Monel™ 500 Stem
											N6	Inconel™ 625 Stem
											N8	Inconel™ 825 Stem
											N2	Hastelloy™ C276 Stem
											BP	Bleed Plug

Use with Confidence, Phoenix Precision 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)

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)
	(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:

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www.phoenixprecisionvalves.com



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