

P6MB2S™ AND P6MBA2S™ 2-VALVE BLOCK MANIFOLD

2-VALVE BLOCK MANIFOLD - SOFT SEAT

3/8" Bore 2-Valve Manifold

The 2-valve block manifold is designed to use in conjunction with a 5-valve manifold to eliminate the need to blow down an entire meter run when performing maintenance or when transferring measurement equipment to an alternate site. These manifolds also provide additional clearance needed in certain applications. The 2-vavle block is available in both straight (MB2S) and 90 degree (MBA2S) configurations to accommodate vertical and horizontal-to-vertical applications. The MB2S features non-rotating stem tips and large handles with rounded corners for easy, comfortable operation. For more economical and/or compact installations see Phoenix's stabilized connector with block valve (ST6S).



Standard Features

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



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

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



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

Packing below stem threads



Prevents corrosion of critical stem threads

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



Mitigates risk of stress cracking

Benefits

Stem threads are rolled, not cut



Higher quality stem for longer service life

Non-rotating tapered tip stem



Extended soft seat life and a reliable soft seat shut off

8 RMS stem finish



Extended packing life

V-Style Teflon™ packing



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

Pressure component materials sourced from the US, Canada or Europe



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

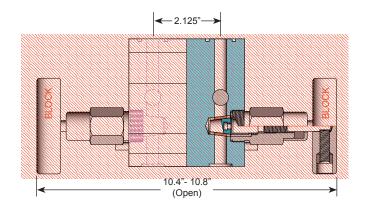


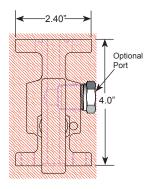


P6MB2S™ AND P6MBA2S™ 2-Valve Manifold

Technical Specifications

P6MB2S Straight Configuration





Specifications:

Type: **P6MB2S** FxF Manifold, Roddable

Rating: Up to 6000 psi @ 100°F (41370 kPa @ 38°C)

Stem: Non-rotating Tapered Tip Packing: Viton™ O-ring or Teflon™ Seat: Delrin™, Peek™ or Tefzel™

Handle: Removable Bore Size: 3/8"

Inlet Connections: 4-Bolt Flange Outlet Connections: 4-Bolt Flange

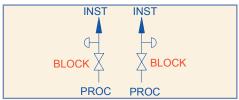
Bonnet Lock: Pin or Plate

Body Stock: 3.625" x 4.0" x 2.4" x 1.7"

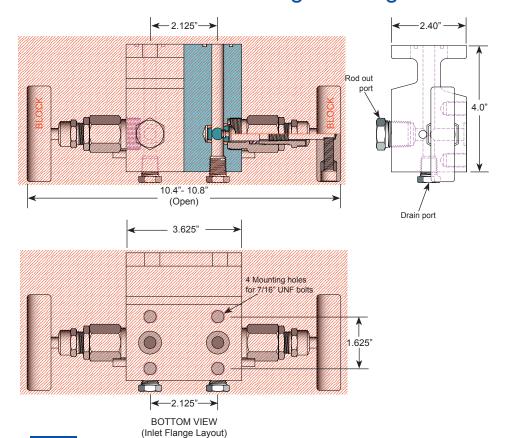
Weight: 7.6 - 7.8 lbs

Special Service: O2 or CL cleaning available*

*Other specifications or services may be available.



P6MBA2S 90° Angle Configuration



Specifications:

Type: **P6MBA2S** Angle FxF Manifold,

Roddable Pattern

Rating: Up to 6000 psi @ 100°F (41370 kPa @ 38°C)

Stem: Non-rotating Tapered Tip Packing: Viton™ O-ring or Teflon™

Seat: Delrin[™], Peek[™] or Tefzel[™]

Handle: Removable

Bore Size: 3/8"

Inlet Connections: 4-Bolt Flange

Outlet Connections: 4-Bolt Flange

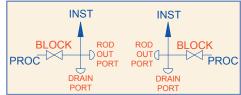
Bonnet Lock: Pin or Plate

Body Stock: 3.625" x 4.0" x 2.4" x 2.4"

Weight: 9.2 - 9.4 lbs

Special Service: O2 or CL cleaning available*

*Other specifications or services may be available.

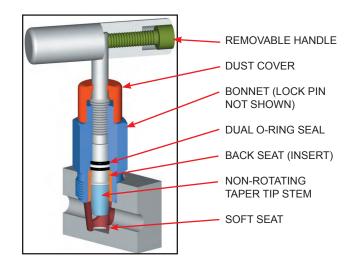




P6MB2S™ AND P6MBA2S™ 2-Valve Manifold Bonnet. Stem and Seat Characteristics

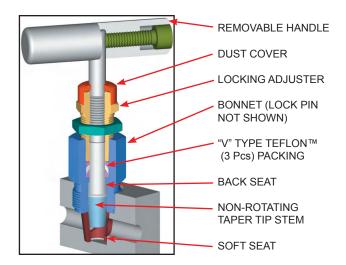
3/8" Bore O-ring Bonnet Assembly

Standard Materials							
Valve	Body	Bonnet	Stem	Insert	Handle	Packing	
cs	ASTM A108CS	ASTM A108CS	ASTM A582 303SS	ASTM A108 CS	ASTM A108 CS	Dual Viton™ O-ring	
SC	ASTM A105CS	ASTM A182 316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A582 303SS	with Teflon™ backup ring	
SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A582 303SS	3	



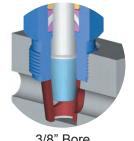
3/8" Bore Packed Bonnet Assembly

Standard Materials						
Valve	Body	Bonnet	Stem	Adjuster	Handle	Packing
CS	ASTM A108CS	ASTM A108CS	ASTM A582 303SS	ASTM A108 CS	ASTM A108 CS	"V" shape Teflon™
SC	ASTM A105CS	ASTM A182 316SS	ASTM A182 316SS	ASTM A582 303SS	ASTM A582 303SS	
SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A582 303SS	ASTM A582 303SS	

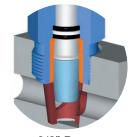


Note: Packing material ratings based on manufacturer's specifications. Approximations only. Phoenix does not represent these values as finite. They are provided only as representative values.

Stem and Seat Configurations



3/8" Bore Non-rotating Packed



3/8" Bore Non-rotating O-ring



P6MB2S™ AND P6MBA2S™ 2-Valve Manifold Model Numbering System

Phoenix	Orifice Size	Туре	Inlet	Outlet	Material	Packing	Seat	Option Code
Р	6=3/8"	MB2S	FL=Flange	FL=Flange	SS=ASTM A182 316/316L	A=Aflas™	D=DeIrin™	DI=Dielectric
		MBA2S			SC=ASTM A105 CS*	V=FKM	P=Peek™	OR=Viton™ O-ring Flange Seal
					CS=ASTM A108 CS*	T=PTFE	Z=Tefzel™	S6=316SS Bolts
EXAMPLE: P6MB2SFLFLSSVD = 3/8" Orifice, Flange Inlet, Flange Outlet, 316SS, Viton™ Packing, Delrin™ Seat								
Р	6	MB2S	FL	FL	ss	V	D	
*For and amplications A400 CC is upper markly A405 CC mount be applicated for CC values								

^{*}For code applications, A108 CS is unacceptable, A105 CS must be selected for CS valves.

Note: Standard Bolting Options, CS - carbon steel, Gr.8, zinc plated bolts; SS - stainless steel, 18.8 (304SS) bolts.

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/ISO15156 for all 316SS valves and A105CS body/316SS bonnet (SC-Material Code) when in service with less than 50 PPM of chlorides

Seal & Seat Temperature Rating

Code	Description	Min. Temp.	Max. Temp.
А	Aflas™	15°F (-10°C)	400°F (204°C)
V	Viton™	-20°F (-29°C)	400°F (204°C)
Т	Teflon™	-65°F (-54°C)	450°F (232°C)
D	Delrin™	-40°F (-40°C)	200°F (93°C)
Р	Peek™	-40°F (-40°C)	400°F (204°C)
Z	Tefzel™	-300°F (-185°C)	300°F (150°C)

For further information please contact:



Phoenix Precision Ltd. 2620 21st Street N.E. Calgary, Alberta T2E 7L3 Phone:(403) 291-3154 Fax: (403) 291-3292

email: phoenix@phoenixprecision.ca www.phoenixprecisionvalves.com

Distributor / Representative:

Haldatec

Phone: +61-3-9872-5822 Fax: +61-3-9872-5129 E-mail: sales@haldatec.com.au Web Site: www.haldatec.com.au

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