

P3M2S™ 2-VALVE SOFT SEAT MANIFOLD

2-VALVE GAS MANIFOLD

2-Valve Gas Manifold

The 3/16" bore 2-valve block and bleed manifold features a built-in vent/calibration port making it a cost-effective choice for static pressure measurement. The roddable, soft-seated manifold machined from bar stock ensures a bubble-tight seal and is available in a range of materials and configurations that meet most application requirements. The valve includes robust stems, pinned bonnets and two mount holes for bracket support.



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

Stem threads are rolled, not cut



Higher quality stem for longer service life

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.

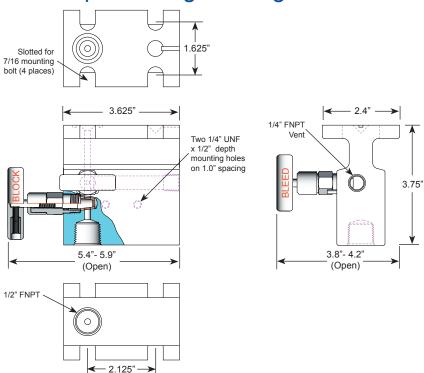
Solutions for Oil & Gas and Petrochemical Processing





P3M2S™ 2-Valve Manifold Technical Specifications

Pipe x Flange Configuration



Specifications:

Type: **P3M2S**, 2-valve Manifold, Roddable Pattern

Rating: Up to 6000 psi @ 100°F (41370 kPa @ 38°C) Stem: Tapered Tip, Flat Tip

Packing: Aflas™, Viton™ O-ring or Teflon™

Seat: Delrin™, Peek™ Handle: Removable

Bore Size: 3/16"(Primary), 1/8" (Bleed)

Inlet Connections: FNPT Outlet Connections: Flange Vent Port: 1/4" FNPT Bonnet Lock: Pin or Plate

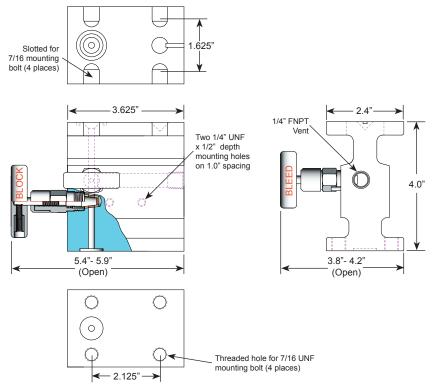
Body Stock: 3.625" x 3.75" x 2.4" x 1.5"

Weight: 4.7 - 4.8 lbs

Special Service: O2 or CL cleaning available*

*Other specifications or services may be available.

Flange x Flange Configuration



Specifications:

Type: **P3M2S**, 2-valve Manifold, Roddable Pattern

Rating: Up to 6000 psi @ 100°F (41370 kPa @ 38°C) Stem: Tapered Tip, Flat Tip

Packing: Aflas™, Viton™ O-ring or Teflon™

Seat: Delrin™, Peek™ Handle: Removable

Bore Size: 3/16" (Primary), 1/8" (Bleed)

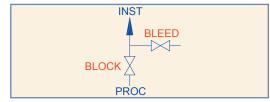
Inlet Connections: Flange Outlet Connections: Flange Vent Port: 1/4" FNPT Bonnet Lock: Pin or Plate

Body Stock: 3.625" x 4.0" x 2.4" x 1.5"

Weight: 5.1 - 5.2 lbs

Special Service: O2 or CL cleaning available*

*Other specifications or services may be available.

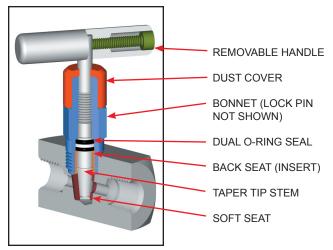




P3M2S™ 2-Valve Manifold Bonnet, Stem and Seat Characteristics

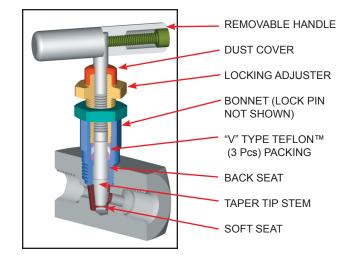
O-Ring Bonnet Assembly

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



Teflon™ or Grafoil™ Bonnet Assembly

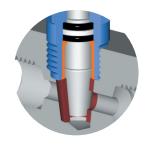
Standard Materials								
Valve	Body	Bonnet	Stem	Seat	Packing			
CS	ASTM A108CS	ASTM A108CS	ASTM A582 303SS	SEE OPTION CODES	Teflon™			
SC	ASTM A105CS	ASTM A182 316SS	ASTM A182 316SS	ON PAGE 4				
316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A182 316SS					



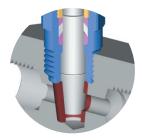
Pressure vs. Temperature Chart 6000 psi (Soft Seat) 6000 [414] 5000 Pressure in psi [bar] [345] DELRIN 4000 3000 2000 [138] TEFZEL 1000 [-18] [38] [93] [149] [204] Temperature in °F [°C]

Note: 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.

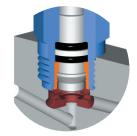
Stem and Seat Configurations



3/16" Bore Tapered Tip (O-ring)



3/16" Bore Tapered Tip (Packed)



1/8" Bore Flat Tip (O-ring)



P3M2S™ 2-Valve Manifold Model Numbering System

Parker	Orifice Size	Туре	Inlet Size	Inlet Type	Outlet Size	Outlet Type	Material	Packing	Seat	Stem Tip
Р	3=3/16"	M2S	8=1/2"	F=FNPT		FL=Flange	SS=ASTM A182 316/316L	A=Aflas™	D=Delrin™	Tapered Tip Standard (leave blank)
				FL=Flange			SC=ASTM A105 CS*	V=Viton™ (FKM)	P=Peek™	
				FT=Female Tube Fitting			CS=ASTM A108 CS*	T=Teflon™ (PTFE)		
							C5=ASTM A350 LF2			
							N4=Monel™ 400			
							N6=Inconel™ 625			
							N8=Inconel™ 825			
							N2=Hastelloy™ C276			
EXAMPL	E: P3M2S	8FFLS		16" Orifice, 2-\ elrin™ Seat, 3		,	PT Inlet, Flange C	outlet, 316 SS	Body, Teflon	™ Packing,
Р	3	M2S	8	F		FL	SS	Т	D	
						,	grade bolts must b olts; SS - stainless	•		ations.

stelloy™ 276					(Vertical) Mounting Bracket
, Flange C	utlet, 316 SS	S6	316 SS Bolts		
	•	225CS	2.25" CS Bolts		
	Т	D		225S4	2.25" 304 SS Bolts
	e specified fo	225S6	2.25" 316 SS Bolts		
- stainless	steel, 18.8 (3	ТВ	1/4" FNPT Test Ports Bottom		
		PB	1/4" FNPT Purge Ports Bottom		
				B7	AISI 4140/4142 QT
Code Bolt	ing Information	B8C1	Class 1, 304SS, ST		
	C1, B8MC1, B8	B8MC1	Class 1, 316SS, ST		
	cify code grade olt length; B7 q	B8C2	Class 2, 304SS, ST, SH		
	enched & Temp	B8MC2	Class 2, 316SS,		

ST. SH

Option

LB

СС

OC

TG

SGI

N4

N5

N8

N2

H(V)MB

H(V)MBS

Description

Bonnet Lock

Chlorine Clean

Oxygen Clean

Sour Gas ISO NACE Latest Rev Monel[™] 400 Stem

Monel[™] 500 Stem

Inconel[™]625 Stem

Inconel[™]825 Stem Hastelloy™ C276

Horizontal (Vertical) Mounting Bracket

SS Horizontal

SS Tag

Stem

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)

Seal and Seat Material Temperature Rating

Code	Description	MIN. TEMP	MAX. TEMP
Α	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)

For further information please contact:



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Treated; SH-Strain Hardened

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