

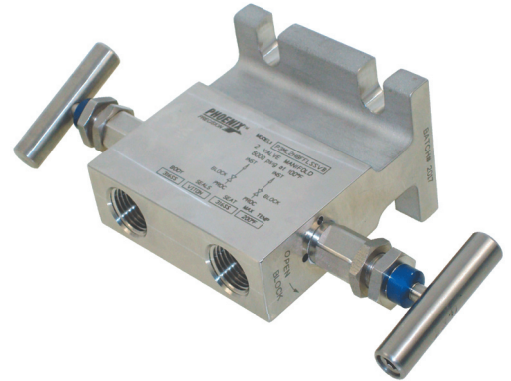


P3ML2H™ 2-VALVE LIQUID LEVEL MANIFOLD

LIQUID LEVEL MANIFOLD

3/16" Bore Liquid Level Manifold

The P3ML2H manifold is designed to be used with differential pressure (ΔP) transmitters on pressurized vessels in liquid level applications. The P3ML2H features 2 isolation valves with no communication between the high pressure leg and the low pressure leg. It is available in both a 1/2" FNPT x Flange design and a Flange x Flange design.



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

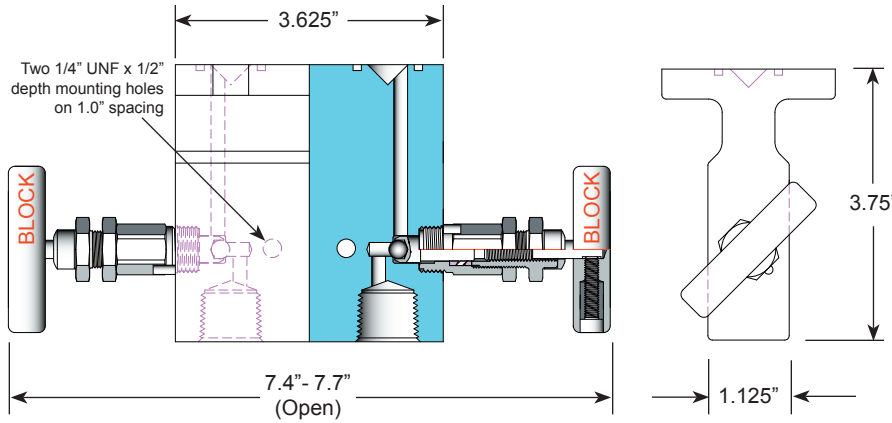




P3ML2H™ 2-Valve Liquid Level Manifold

Technical Specifications

Pipe x Flange Configuration

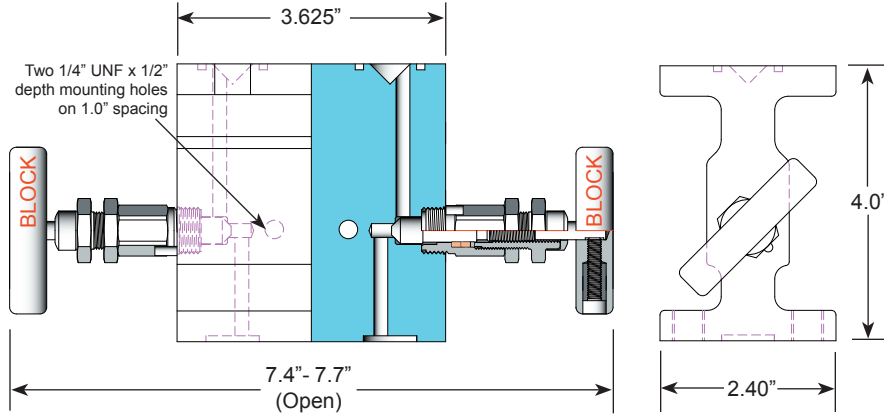


Specifications:

Type: **P3ML2H** 2-valve Liquid Level Manifold, Globe Pattern
 Rating: Up to 6000 psi @ 100°F (41370 kPa @ 38°C)
 Stem: Needle tip or Ball tip
 Packing: Teflon™ or Grafoil™
 Seat: Integral
 Handle: Removable
 Bore Size: 3/16"
 Inlet Connections: FNPT
 Outlet Connections: Flange
 Bonnet Lock: Pin or Plate
 Body Stock: 3.750" x 3.625" x 2.4" x 1.125"
 Weight: 4.7 lbs
 Special Service: O₂ or CL cleaning available*

*Other specifications or services may be available.

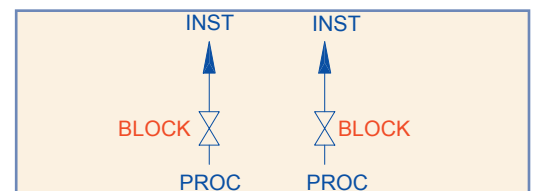
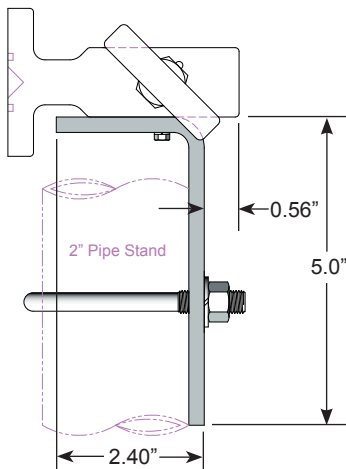
Flange x Flange Configuration



Specifications:

Type: **P3ML2H** 2-valve Liquid Level Manifold, Globe Pattern
 Rating: Up to 6000 psi @ 100°F (41370 kPa @ 38°C)
 Stem: Needle tip or Ball tip
 Packing: Teflon™ or Grafoil™
 Seat: Integral
 Handle: Removable
 Bore Size: 3/16"
 Inlet Connections: Flange
 Outlet Connections: Flange
 Bonnet Lock: Pin or Plate
 Body Stock: 4.0" x 3.625" x 2.4" x 1.125"
 Weight: 5.1 lbs
 Special Service: O₂ or CL cleaning available*

*Other specifications or services may be available.

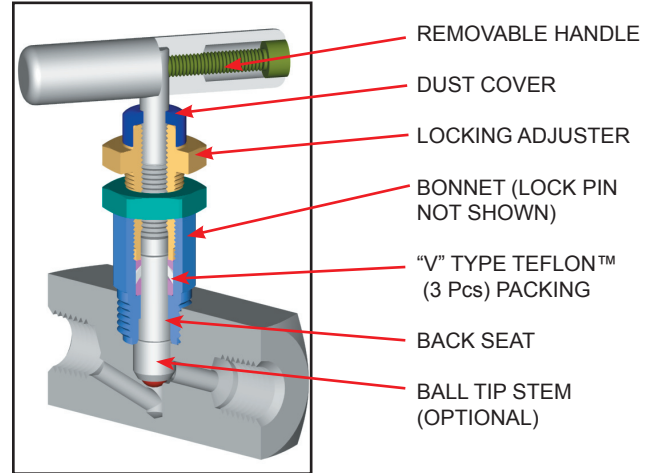




P3ML2H™ 2-Valve Liquid Level Manifold Bonnet, Stem and Seat Characteristics

Teflon™ Bonnet Assembly

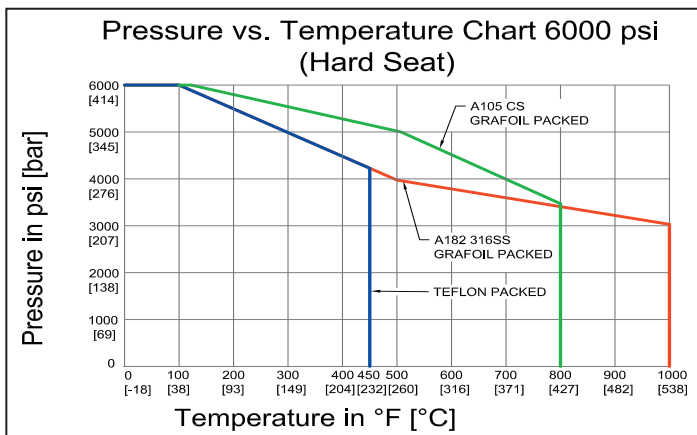
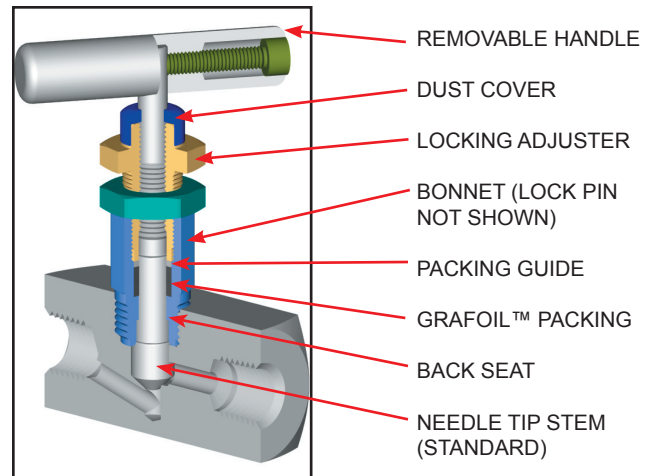
Standard Materials					
Valve	Body	Bonnet	Stem	Ball	Packing
CS	ASTM A108CS	ASTM A108CS	ASTM A582 303SS	SEE OPTION CODES ON PAGE 4	Teflon™
SC	ASTM A105CS	ASTM A182 316SS	ASTM A182 316SS		
316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A182 316SS		



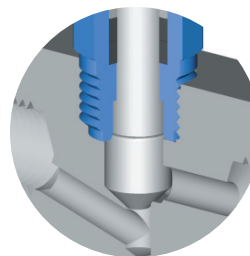
Grafoil™ Bonnet Assembly

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

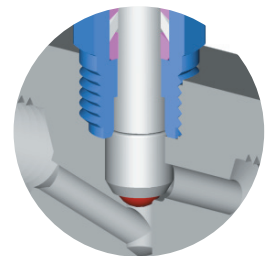
NOTE: Optional low torque Grafoil™ available (G4 Packing Code)



Stem and Seat Configurations



Needle Tip
(Standard)



Ball Tip
(Optional)

Note: Body material specifications based on ASME B16.34 - 2009. 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.



P3ML2H™ 2-Valve Liquid Level 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"	ML2H	8=1/2"	F=FNPT		FL=Flange	SS=ASTM A182 316/316L	T=Teflon™ (PTFE)	Integral (leave blank)	Needle Tip Standard (leave blank)	LB	Bonnet Lock
				FL=Flange			SC=ASTM A105 CS*	G=Grafoil™		B=316SS Ball Tip	CC	Chlorine Clean
				FT=Female Tube Fitting			CS=ASTM A108 CS*	G4= Low Torque Grafoil™		BC=Ceramic Ball Tip	OC	Oxygen Clean
							C5=ASTM A350 LF2			BM=Monel™ Ball Tip	TG	SS Tag
							N4=Monel™ 400				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
EXAMPLE: P3ML2H8FFLSSTB = 3/16" Orifice, 2-Valve Liquid Level Manifold, 1/2" FNPT Inlet, Flange Outlet, 316 SS Body, Teflon™ Packing, Integral Seat, 316 SS Ball Tip Stem												
P	3	ML2H	8	F		FL	SS			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
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:



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