

P6G6H™ MULTIPORT GAUGE VALVE

GAUGE VALVE

3/8" Bore Multiport Gauge Valve

Gauge valves are designed for use with various instrumentation equipment and can be installed to control, isolate, measure, calibrate, equalize, drain or vent the pressure of gases and liquids. Phoenix's large bore, multiport gauge valves are of bar stock construction and are available in various materials, sizes, sealing styles, end connections and stem types. The main features of our multiport gauge valves are robust stems, bubble tight seals, bonnet lock plates for safety, and flexible mounting for both vertical and horizontal applications. The severe service model with a non-rotating stem provides an effective transition between process piping and instrumentation equipment.



Special Features

High temperature/pressure qualification test of design



Benefits

Benefits

Complies with the requirements of EEMUA PUB. 182

Non-rotating stem design with ceramic ball tip



Provides best seating ability on stem and valves seat and longer service life in abrasive processes

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 on both rotating and non-rotating stems



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.



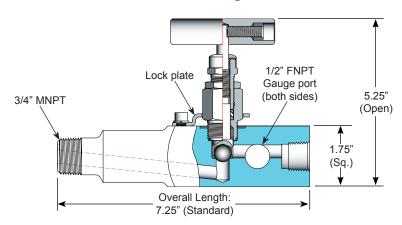
Reliable material traceability. MTR's provided with every order for pressure containing components.



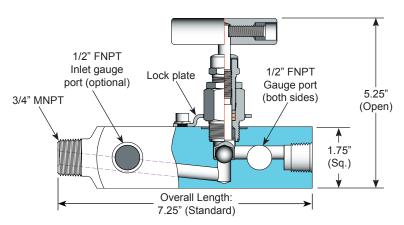


P6G6H™ Multiport Gauge Valve Technical Specifications

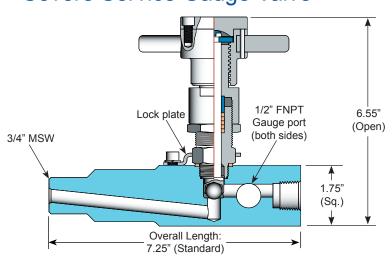
Teflon™ Packed Gauge Valve



Grafoil™ Packed Gauge Valve



Severe Service Gauge Valve



Specifications:

Type: **P6G6H** valve, 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

Seat: Integral Handle: Removable Bore Size: 3/8"

Inlet Connections: 1/2" to 1" NPT, SW Outlet Connections: 1/2" to 1" NPT, SW

Gauge Ports: 1/2" FNPT (2 Pipe plugs included)

Bonnet Lock: Plate Body Stock: 1.75" sq. Weight: 5.38 lbs

Special Service: O_2 or CL cleaning available*

*Other specifications or services may be available.

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Stem: Needle tip or Ball tip Packing: Teflon™ or Grafoil™

Seat: Integral Handle: Removable Bore Size: 3/8"

Inlet Connections: 1/2" to 1" NPT, SW Outlet Connections: 1/2" to 1" NPT, SW Gauge Ports: 1/2" FNPT (2 Pipe plugs included)

Bonnet Lock: Pin or Plate Body Stock: 1.75" sq. Weight: 5.38 lbs

Special Service: O2 or CL cleaning available*

*Other specifications or services may be available.

Specifications:

Type: P6G6H Valve, Globe Pattern Rating: Up to 6000 psi @ 100°F (41370 kPa @ 38°C) Stem: Non-rotating ball tip

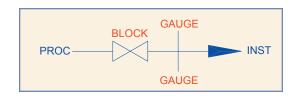
Packing: Grafoil™ Seat: Integral Handle: Removable Bore Size: 3/8"

Inlet Connections: 1/4" to 1" NPT, SW Outlet Connections: 1/2" to 1" NPT, SW Gauge Ports: 1/2" FNPT (2 Pipe plugs included)

Bonnet Lock: Pin or Plate Body Stock: 1.75" sq. Weight: 6.68 lbs

Special Service: O2 or CL cleaning available*

*Other specifications or services may be available.





P6G6H™ Multiport Gauge Valve Bonnet, Stem and Seat Characteristics

Rotating Stem Assembly

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

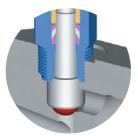


Standard Materials					
Valve	Body	Bonnet	Stem	Ball	Packing
CS	ASTM A108CS	ASTM A108CS	ASTM A582 303SS	SEE OPTION CODES	Grafoil™
SC	ASTM A105CS	ASTM A182 316SS	ASTM A182 316SS	ON PAGE 4	
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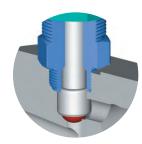
DUST COVER LOCKING ADJUSTER BONNET (LOCK PLATE NOT SHOWN) "V" TYPE TEFLON™ (3 Pcs) **BACK SEAT** BALL TIP STEM (OPTIONAL) **HANDLE** THRUST BUTTON THRUST WASHER NON-ROTATING STEM **ADJUSTER** PACKING RING GRAFOIL™ PACKING LOCK NUT **BONNET BACKUP SEAT CERAMIC BALL**

REMOVABLE HANDLE

Stem and Seat Configurations

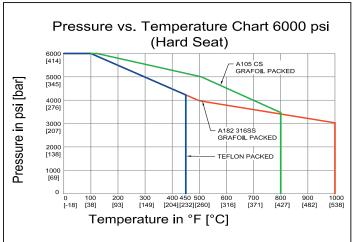


Rotating Ball Stem



Non-rotating Ball Stem

Gauge Valve Accessories				
	Bleed Plug: P2BP8M Specifications: Rating: 6000 psi @ 100°F (41370 kpa @ 38°C) Stem: Needle Seat: Integral Handle: Removable Connections: 1/2" NPT Hex Size: 3/4" Weight: 0.31 lbs (Length: 2" open installed) *Add SS for A182 316SS, CS for A108CS			
	Standard 1/2" Plug: PP8M Specifications: Rating: 10000 psi @ 100°F (68950 kpa @ 38°C) Hex Size: 3/4" Weight: 0.15 lbs (Length: 1") *Add SS for A182 316SS, CS for A108CS			



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.



P6G6H™ Multiport Gauge Valve Model Numbering System

							N6=InconeI™ 625			
				<u> </u>		<u> </u>	400 N6=Inconel™			
							N4=Monel™			
							C5=ASTM A350 LF2			
			16=1" Male only		16=1" Male only		CS=ASTM A108 CS*			BM=Monel™ Ball Tip
		GL6H**	12=3/4"	M= MNPT	12=3/4"	M= MNPT	SC=ASTM A105 CS*	G=Grafoil™		BC=Ceramic Ball Tip
	3/8"			FNPT		FNPT	A182 316/316L	(PTFE)	(leave blank)	Ball Tip
Phoenix	Orifice Size	Type G6H	Inlet Size 8=1/2"	Inlet Type F=	Outlet Size 8=1/2"	Outlet Type	Material SS=ASTM	Packing T=Teflon™	Seat Integral	Stem Tip B=316SS

Option Codes	Description			
NR	Non-rotating Stem			
LB	Bonnet Lock			
PP	Pipe Plug			
СС	Chlorine Clean			
ос	Oxygen Clean			
TG	SS Tag			
SGI	Sour Gas ISO NACE Latest Rev.			
N4	Monel [™] 400 Stem			
N5	Monel [™] 500 Stem			
N6	Inconel [™] 625 Stem			
N8	Inconel [™] 825 Stem			
N2	Hastelloy™ C276 Stem			
IG	Inlet Gauge Port			

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 and Seat Material Temperature Rating

Code	Description	MIN. TEMP	MAX. TEMP	
Т	Teflon™	-65°F (-54°C)	450°F (232°C)	
G	Grafoil™ (SS Body) (CS Body)	-70°F (-56°C) -70°F (-56°C)	1000°F (537°C) 800°F (427°C)	
Note: Crafail™ is quitable for convices in excess of 1000°E in a				

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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