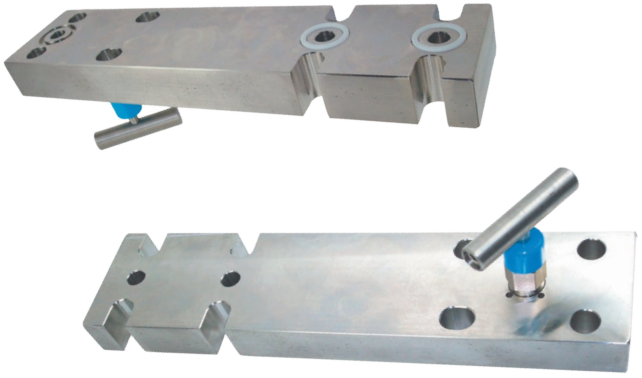
PHOENIX™ PRECISION

P6DGP™ DP TO GP ADAPTER

ADAPTER - PHOENIX MOUNT SYSTEM

DP to GP Adapter

The P6DGP adapter is designed to mount both a differential pressure (DP) transmitter and a gauge pressure (GP) transmitter on the same set of instrument taps. The adapter incorporates a 3/8" bore for the DP transmitter, a ¼" calibration port for the GP transmitter and a 3/16" bore isolation valve.



Standard Features

Benefits

Standard Features	Benefits
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.

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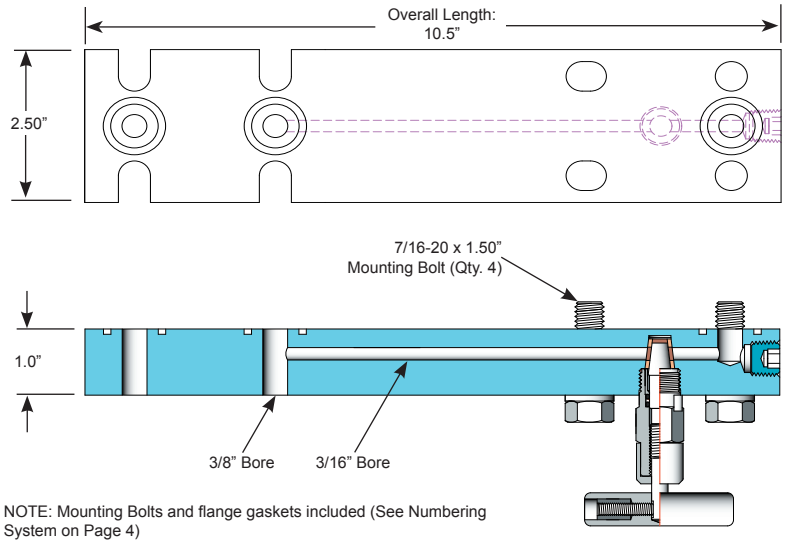
P6DGP™ DP to GP Adapter
Technical Specifications

Adapter without Manifold

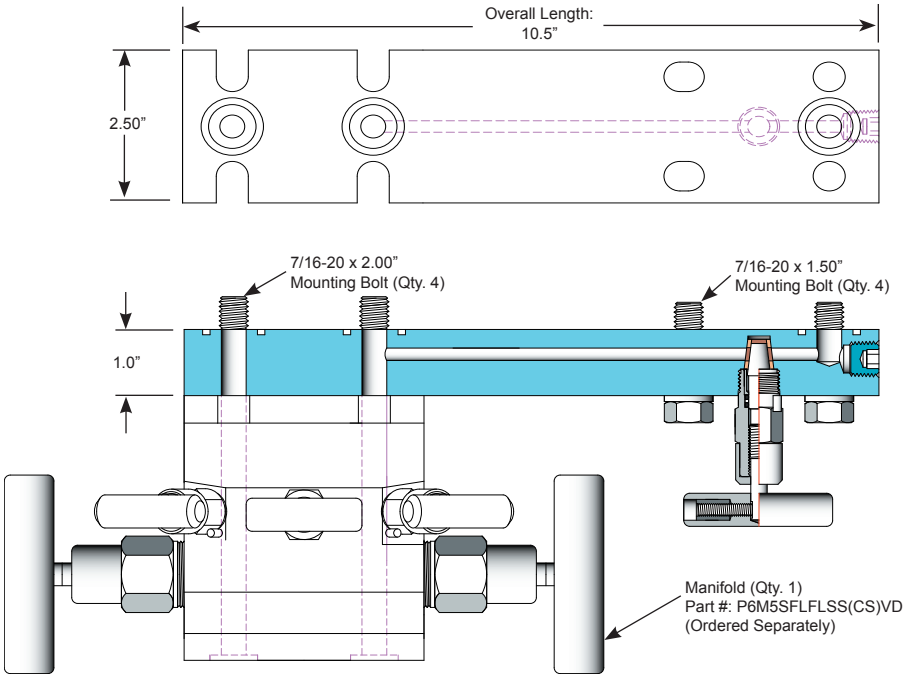


NOTE: Mounting Bolts and flange gaskets included (See Numbering System on Page 4)

Specifications:
Type: **P6DGP6S** Adapter, Roddable Pattern
Rating: Up to 6000 psi @ 100ºF
(41370 kPa @ 38°C)
Stem: Tapered Plug Tip
Packing: Aflas™, Viton™ O-ring, Teflon™
Seat: Delrin™ or Peek™
Handle: Removable
Bore Size: 3/8” for DP, 3/16” for GP
Inlet Connections: Flange
Outlet Connections: Flange
Vent/Calibration Port: 1/4” FNPT (includes 1/4” Pipe Plug)
Bonnet Lock: Pin or Plate
Body Stock: 10.5 x 2.5 x 1.0”
Weight: 6.72 lbs
Special Service: O_2 or CL cleaning available*

*Other specifications or services may be available

Adapter with Manifold

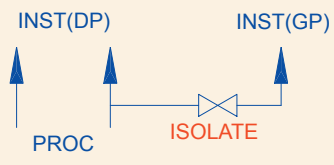


NOTE: Mounting Bolts and flange gaskets included (See Numbering System on Page 4)

Specifications:
Type: **P6DGPM5S** Adapter with Manifold, Roddable Pattern
Rating: Up to 6000 psi @ 100ºF
(41370 kPa @ 38°C)
Stem: Tapered Plug Tip
Packing: Aflas™, Viton™ O-ring, Teflon™
Seat: Delrin™, Peek™ and Tefzel™ (Manifold only)
Handle: Removable
Bore Size: 3/8” for DP, 3/16” for GP
Inlet Connections: Flange
Outlet Connections: Flange
Vent/Calibration Port: 1/4” FNPT (includes 1/4” Pipe Plug)
Bonnet Lock: Pin or Plate
Body Stock: 10.5 x 2.5 x 1.0”
Weight: 14.81 lbs
Special Service: O_2 or CL cleaning available*

*Other specifications or services may be available

Note: Refer to PPL-CAT-P6M5S-001 for the specifications of the manifold



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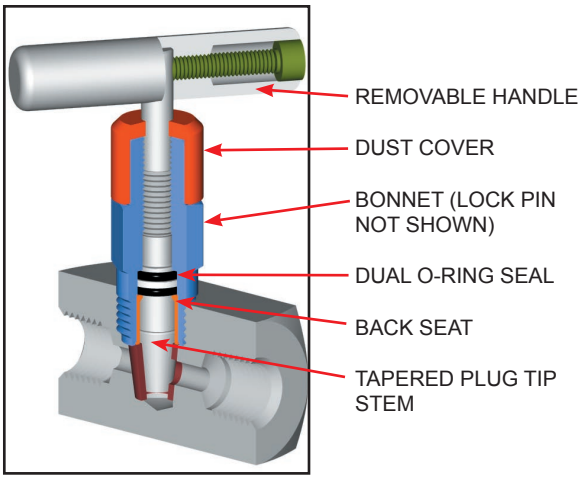
P6DGP™ DP to GP Adapter
Bonnet, Stem and Seat Characteristics

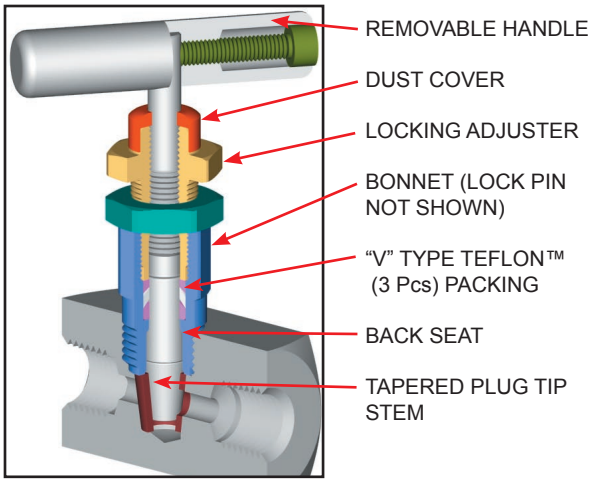
O-Ring Bonnet Assembly

Standard Materials					
Valve	Body	Bonnet	Stem	Insert	Handle
CS	ASTM A108CS	ASTM A108CS	ASTM A582 303SS	ASTM A108CS	ASTM A108CS
SC	ASTM A105CS	ASTM A182 316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A582 303SS
316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A582 303SS

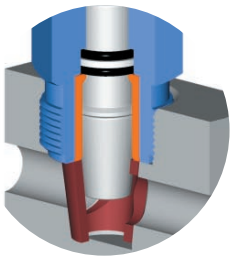


Teflon™ Bonnet Assembly

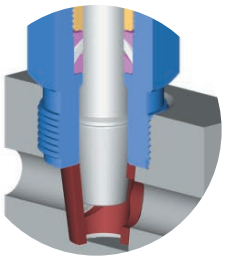
Standard Materials					
Valve	Body	Bonnet	Stem	Insert	Handle
CS	ASTM A108CS	ASTM A108CS	ASTM A582 303SS	ASTM A108CS	ASTM A108CS
SC	ASTM A105CS	ASTM A182 316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A582 303SS
316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A582 303SS



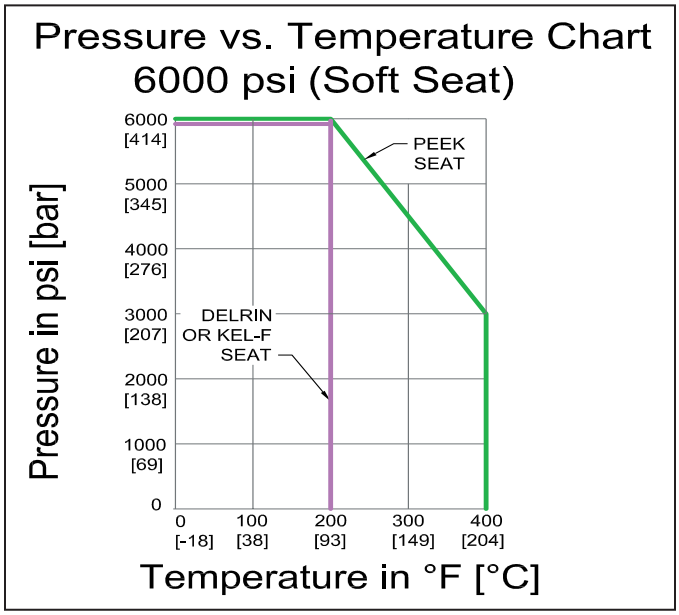
Stem and Seat Configurations



O-ring Bonnet with Soft Seat



Teflon™ packed bonnet with Soft Seat



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.

P6DGP™ DP to GP Adapter
Model Numbering System

Phoenix	Orifice Size	Type	Inlet Type	Outlet Type	Material	Packing	Seat
P	6=3/8”	DGP6S	FL=Flange	FL=Flange	SS=ASTM A182 316/316L	A=Aflas™	D=Delrin™
					SC=ASTM A105 CS	V=Viton™ (FKM)	P=Peek™
					CS=ASTM A108 CS	T=Teflon™ (PTFE)	Z=Tefzel™ (Manifold Only)
EXAMPLE: **P6DGP6SFLFLSSVD** = Phoenix, 3/8” Orifice, ΔP TO ΔP Adapter, Flange x Flange, 316SS material, FKM O-ring Bonnet, Delrin™ Seat							
P	**6**	**DGP6S**	**FL**	**FL**	**SS**	**V**	**D**

Includes Mounting Kit:
Bolting see blew bolt code options chart
Teflon Flange Gasket, Qty. 3
Note: **Standard Bolting Options**, **CS** - carbon steel, Gr.8, zinc plated bolts; **SS** - stainless steel, 18.8 (304SS) bolts.

Option Codes	Description
OR	O-Ring Flange Seals
CC	Chlorine Clean
OC	Oxygen Clean
S6	1.50” 316SS Bolts
275CS	2.75” CS Bolts
275S4	2.75” 304SS Bolts
275S6	2.75” 316SS Bolts
B7	AISI 4140/4142 QT
B8C1	Class 1, 304SS, ST
B8MC1	Class 1, 316SS, ST
B8C2	Class 2, 304SS, ST, SH
B8MC2	Class 2, 316SS, ST, SH

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

Bolt Code Options

Delta P Side	Gauge Side
Blank = No Bolts	Blank = 1.5” Bolts
-D200 (CS, S4, S6) = 2” bolts for use with standard transmitters when correct length bolts not ordered with manifold	Carbon steel bolts standard with CS manifolds, 304 SS bolts standard with 316 SS manifolds, 316 SS bolt = **S6** option
-D325 (CS, S4, S6) = 3.25” bolts for use with Rosemount coplanar style transmitters when correct length bolts not ordered with manifold	**-G275(CS, S4, S6)** = 2.75” bolts for use with Rosemount coplanar style transmitters

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)
D	Delrin™	-40°F (-40°C)	200°F (93°C)
P	Peek™	-40°F (-40°C)	400°F (204°C)
Z	Tefzel™	-300°F (-185°C)	300°F (150°C)

For further information please contact:

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