

P3BB6S[™] SOFT SEAT BLOCK AND BLEED VALVE

SOFT SEAT BLOCK AND BLEED VALVES

3/16" Bore Soft Seat Block and Bleed Valve

The soft seat block and bleed valve can be used with pressure gauges, pressure transmitters and pressure switches. The valve is built using bar stock construction, robust stems, and bonnets pinned for security. The BB6S features two block and bleed valves with one 1/4" FPNT vent/calibration port. Phoenix offers the roddable BB6S valve in a variety of materials and inlet/outlet configuration that meet most application requirements. The soft seat design ensures a bubble-tight seal.



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

Mitiga

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.

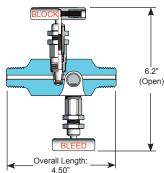
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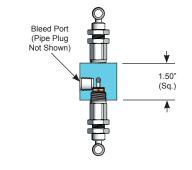




P3BB6S[™] Soft Seat Block and Bleed Valve Technical Specifications

Male x Male Configuration



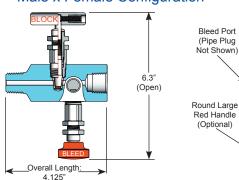


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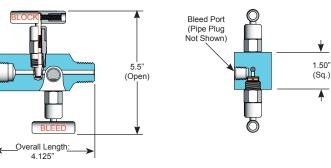
1.50"

(Sq.)

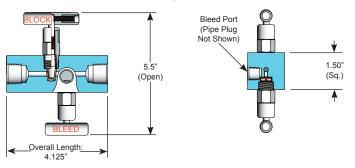
Male x Female Configuration



Female x Male Configuration



Female x Female Configuration



Specifications:

Type: **P3BB6S** Valve, Male x Male, Roddable Pattern Rating: Up to 6000 psi @ 100°F (41370 kPa @ 38°C) Stem: Tapered tip and Flat tip Packing: Aflas™ or Viton™ O-ring or Teflon™ Seat: Delrin™ or Peek™ Handle: Removable Bore Size: 3/16", 1/8" for Bleed Inlet Connections: 1/2" NPT to 3/4"NPT, or FT (1" for Male NPT Only) Outlet Connections: Same as inlet Bleed Port: 1/4" FNPT (includes 1/4" Pipe Plug) Bonnet Lock: Pin or Plate Body Stock: 1.50" sq Weight: 2.53 lbs Special Service: O₂ or CL cleaning available*

*Other specifications or services may be available

Specifications:

Type: **P3BB6S** Valve, Male x Female, Roddable Pattern Rating: Up to 6000 psi @ 100°F (41370 kPa @ 38°C) Stem: Tapered tip and Flat tip Packing: Aflas™ or Viton™ O-ring or Teflon™ Seat: Delrin™ or Peek™ Handle: Removable Bore Size: 3/16", 1/8" for Bleed Inlet Connections: 1/2" to 3/4" NPT, or FT (1" for Male NPT Only) Outlet Connections: Same as inlet Bleed Port: 1/4" FNPT (includes 1/4" Pipe Plug) Bonnet Lock: Pin or Plate Body Stock: 1.5" sq Weight: 2.45 lbs Special Service: O₂ or CL cleaning available*

*Other specifications or services may be available

Specifications:

Type: **P3BB6S**Valve, Female x Male, Roddable Pattern Rating: Up to 6000 psi @ 100°F (41370 kPa @ 38°C) Stem: Tapered tip and Flat tip Packing: Aflas™ or Viton™ O-ring or Teflon™ Seat: Delrin™ or Peek™ Handle: Removable Bore Size: 3/16", 1/8" for Bleed Inlet Connections: 1/2" to 3/4" NPT, or FT (1" for Male NPT Only) Outlet Connections: 3me as inlet Bleed Port: 1/4" FNPT (includes 1/4" Pipe Plug) Bonnet Lock: Pin or Plate Body Stock: 1.5" sq Weight: 2.43 lbs Special Service: O₂ or CL cleaning available*

Specifications:

Type: **P3BB6S** Valve, Female x Female, Roddable Pattern Rating: Up to 6000 psi @ 100°F (41370 kPa @ 38°C) Stem: Tapered tip and Flat tip Packing: Aflas™ or Viton™ O-ring or Teflon™ Seat: Delrin™ or Peek™ Handie: Removable Bore Size: 3/16°, 1/8° for Bleed Inlet Connections: 1/2° to 3/4° NPT, or FT (1° for Male NPT Only) Outlet Connections: Same as inlet Bleed Port: 1/4° FNPT (includes 1/4° Pipe Plug) Bonnet Lock: Pin or Plate Body Stock: 1.5° sq Weight: 2.50 lbs Special Service: O₂ or CL cleaning available*



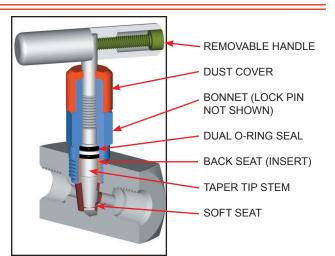
PHOENIX[™] P3BB6S[™] Soft Seat Block and Bleed Valve Bonnet. Stem and Seat Characteristics

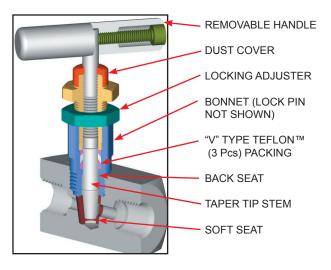
O-Ring Bonnet Assembly

Standard Materials							
Valve	Body	Bonnet	Stem	Seat	Packing		
CS	ASTM A108CS	ASTM A108CS	ASTM A582 303SS	Delrin™ or	Dual Viton™ O-ring with Teflon™ backup ring		
SC	ASTM A105CS	ASTM A182 316SS	ASTM A182 316SS	Peek™			
316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A182 316SS				

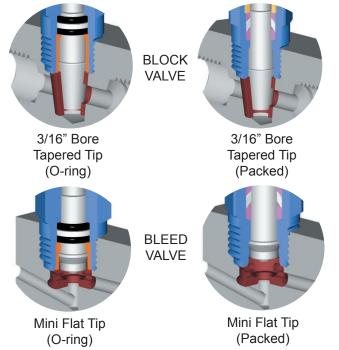
Packed Bonnet Assembly

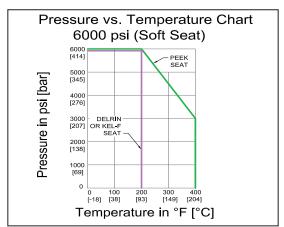
Standard Materials							
Valve	Body	Bonnet	Stem	Seat	Packing		
CS	ASTM A108CS	ASTM A108CS	ASTM A582 303SS	Delrin™ or Peek™	Teflon™		
SC	ASTM A105CS	ASTM A182 316SS	ASTM A182 316SS	Peek			
316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A182 316SS				





Stem and Seat Configurations





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.



P3BB6S[™] Soft Seat Block and Bleed Valve Model Numbering System

Phoenix	Orifice Size	Туре	Inlet Size	Inlet Type	Outlet Size	Outlet Type	Material	Packing	Seat	Stem Tip	Option Codes	Description
Р	(3/16"		1/2" F=FNPT	8=1/2"	F=FNPT	SS=ASTM A182	A=Aflas™	D= Delrin™	Tapered and Flat Tip	LB	Bonnet Lock	
		Bore)					316/316L			Standard (leave blank)	СС	Chlorine Clean
			12=3/4"	M=MNPT	12=3/4"	M=MNPT	SC=ASTM A105 CS*	V=Viton™ (FKM)	P= Peek™		OC	Oxygen Clean
			16=1" (Male	FT=Female Tube Fitting	16=1" (Male	FT=Female Tube Fitting	CS=ASTM A108 CS*	T=Teflon™ (PTFE)	1		TG	SS Tag
			Only)		Only)		C5=ASTM				SGI	Sour Gas ISO NACE Latest Rev.
							A350 LF2				RLR	Round Large Red
							N4=Monel™ 400					Aluminum Handle for Bleed (Vent)
							N6=Inconel™ 625		1		RC	Round Handle C.S.
							N8=Inconel™				RS	Round Handle S.S.
							825				N4	Monel [™] 400 Stem
							N2=Hastelloy™ C276				N5	Monel [™] 500 Stem
EXAMPL	E: P3BB6	S8M8FSS		,	,		Ilve, 1/2" MNPT Seat, Tapered ar	,	,	316 SS	N6	Inconel [™] 625 Stem
P	3	BB6S	8	м	8	F	ss	V	D		N8	Inconel [™] 825 Stem
^⊢or code	e applicat	ions, A108	CS is un	acceptable, A	4105 CS	must be selec	cted for CS valv	es.			N2	Hastelloy™ C276

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)

For further information please contact:



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www.phoenixprecisionvalves.com

Seal and Seat Material 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)

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