

DOUBLE BLOCK AND BLEED VALVE


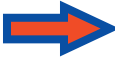





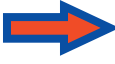


3/8” Bore Tap Style DBB Valve

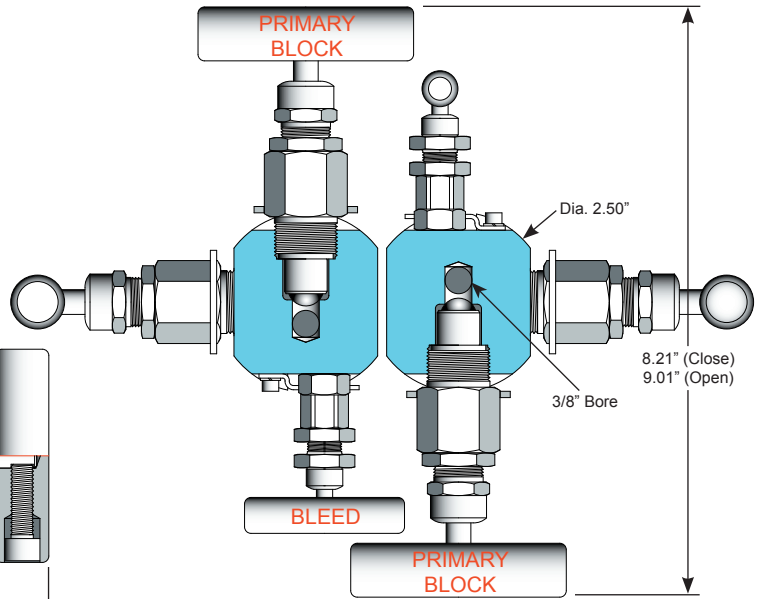
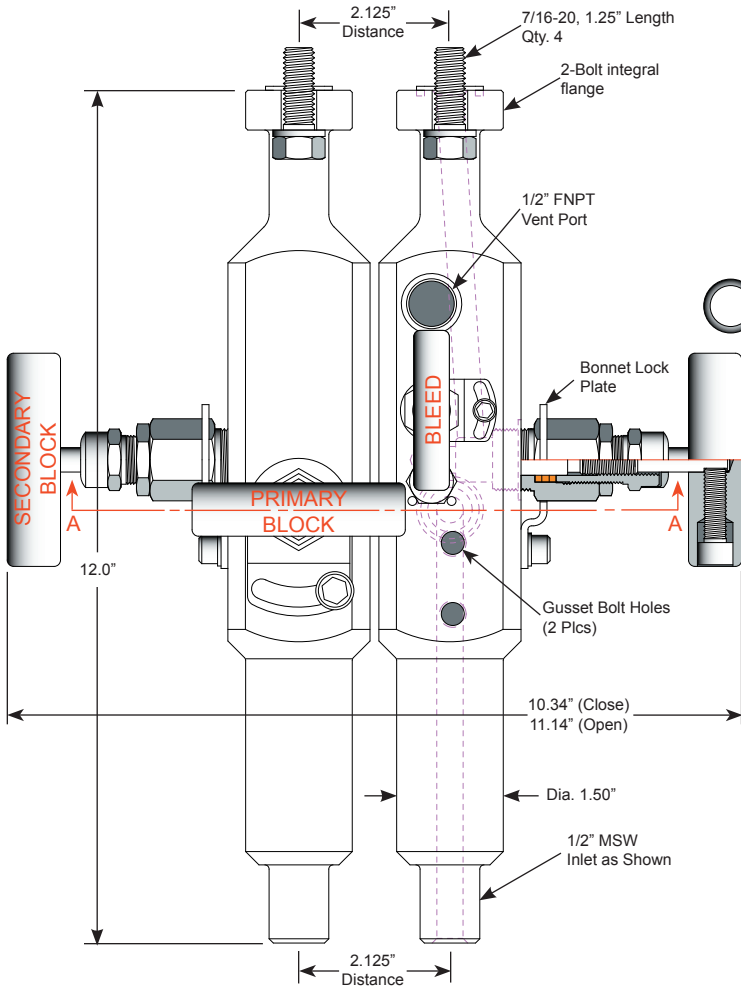
Phoenix’s integral double block and bleed valve (DBB) is designed with a globe pattern providing maximum shut-off utilizing ball tip stems on the process valves and a needle tip stem on the bleed valve. The DBB is available in various materials, end connections, and configurations. The special bonnet arrangement feature allows the two DBB valves to be installed symmetrically at a 2-1/8” center-to-center distance, which provides a direct mount to instrumentation with the same standard centers.



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. |
| Bonnet lock plates and gusset mounting holes standard |  | Tamper proof security and provides additional installation support |
| Extended body and high temperature bonnets |  | Allows for welded installation and localize PWHT without disassembling valve |
| Metal body-to-bonnet seals are in compression, not tension. |  | Mitigates risk of stress cracking |
| Integral block and bleed valve body |  | Minimizes number of leak points of traditional configurations |
| Stem with 8 RMS finish |  | Extended packing life |
| Stem with ceramic ball tip |  | Provides optimal sealing on stem and valve seat and longer service life in abrasive processes |
| Grafoil™ packing (Teflon™ free) |  | Fire safe design meets API 6FA |
| Pressure component materials sourced from the US, Canada or Europe |  | Reliable material traceability. MTR's provided with every order for pressure containing components. |



A-A SECTION

NOTE: 1) Tap style DBB valves supplied with two 1/2" MNPT pipe plugs with liquid nitride treatment, four gusset bolts with lock washers and two stainless steel tag with wire, not shown above.
2) Includes positioning plate for easy installation, see illustration picture on page 1.

Specifications:

Type: **P6DBB-X2**, DBB Gauge Valve
Globe Pattern

Rating: Up to 6000 psi @ 100°F
(41370 kPa @ 38°C)

Stem: Ball Tip Stems for
both Blocks and Needle Tip for Bleed

Packing: Teflon™ or Grafoil™

Seat: Integral

Handle: Removable

Bore Size: 3/8" for Primary, 1/8" for Bleed

Inlet Connections: MSW, BW

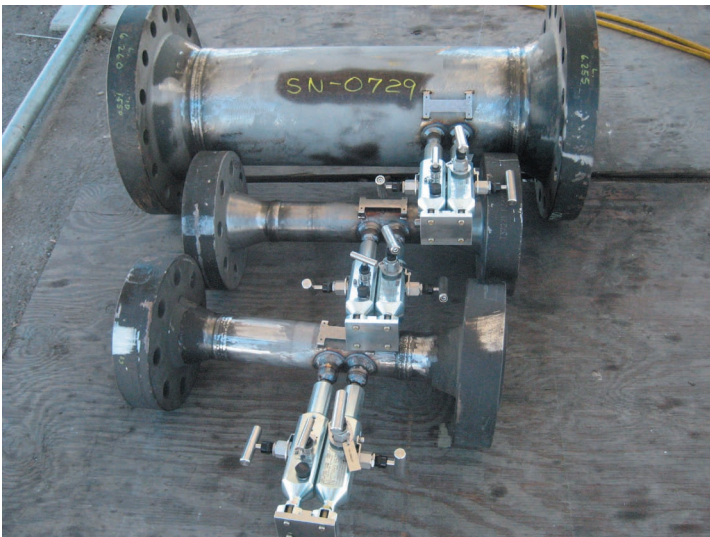
Outlet Connections: 2-bolt integral flange

Vent Port: 1/2" FNPT (includes 1/2" Pipe Plug)

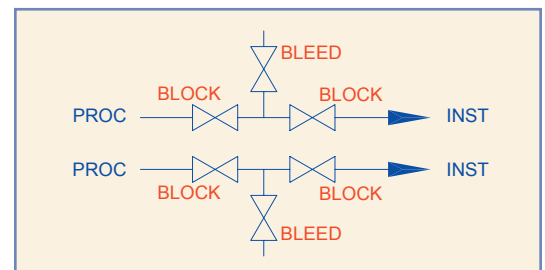
Bonnet Lock: Standard Plate

Body Stock: 2.5" Round Bar

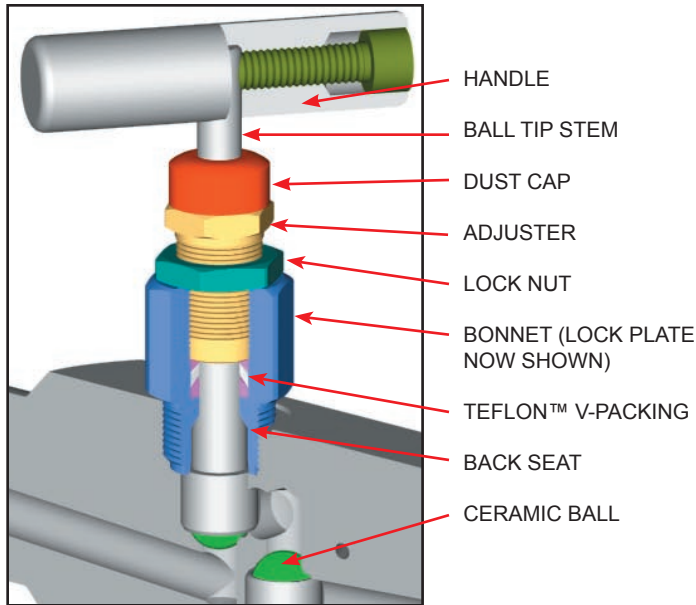
Weight: 10.3 lbs (varies with configurations)



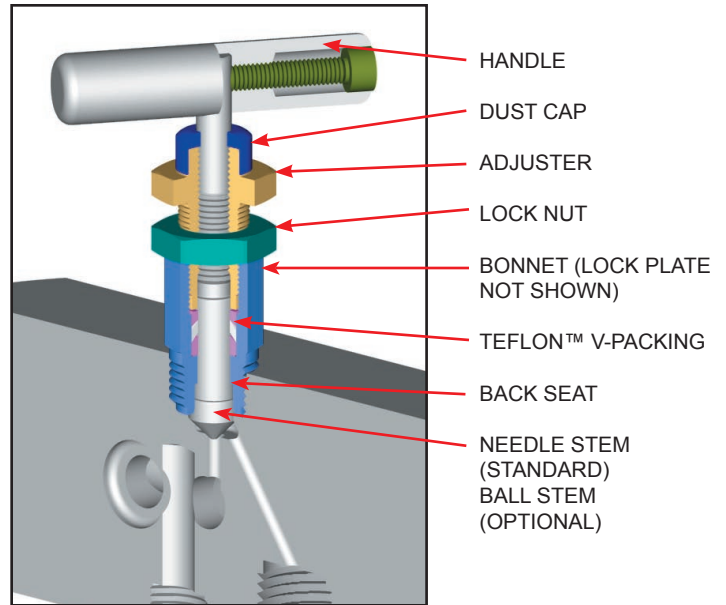
P6DBB-X2 VALVES WELDED TO PIPE COMPONENTS



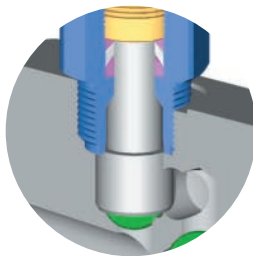
Block Bonnet Assembly



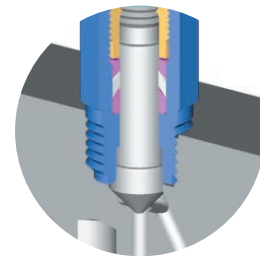
Bleed Bonnet Assembly



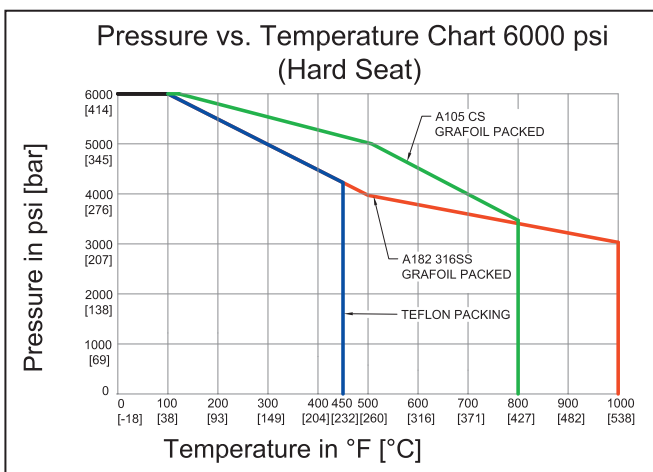
Stem and Seat Configurations



Block stem with ball tip



Needle tip stem standard



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.

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)

PHOENIX	ORIFICE SIZE	TYPE	INLET SIZE	INLET TYPE	SCHEDULE (for butt-weld inlet)	OUTLET SIZE	OUTLET TYPE	BODY MATERIAL	TRIM MATERIAL	PACKING	STEM TIP	STEM TYPE	OPTIONAL STEM MATERIAL
P	6=6/16" =3/8"	DBB6H	8=1/2"	MS=Male socket weld	40S= SCH 40		IF=Integral 2 Bolt Flange	SS=ASTM A182 F316/316L	same as body	G= Grafoil™	BC= Ceramic Ball	Rotating (Leave Blank)	
			12=3/4"	BW=Male Butt weld	80S= SCH 80			S317=ASTM A182 F317/317L	same as body	T= Teflon™ (PTFE)	B= 316SS Ball		
					160S= SCH 160			S310=ASTM A182 F310H	same as body				
					XXH= SCH XXH			S321=ASTM A182 F321SS	same as body				
								S347=ASTM A182 F347SS	same as body				
								C5=ASTM A350 LF2	316SS				
								SC=ASTM A105	316SS				S410 =410SS
								C4=ASME SA105	316SS				
								S22=DUPLEX 2205	same as body				
								F5=A182 F5	Stem - 316SS Bonnet -same as body				
							F9=A182 F9						
							F11=A182 F11						
							F22=A182 F22						
								N6=Inconel™ 625	same as body				
								N8=Inconel™ 825	same as body				
								N20=Alloy 20	same as body				

e.g.: P6DBB6H12MSIFSSGB = 3/8" Bore, 3/4" Male Socket Weld Inlet, Integral Flange Outlet, 316SS Body, Grafoil™ Packing, 316SS Ball Tip, Rotating Stem

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