



Pro-bloc® 25mm Full Bore Double Block and Bleed Manifolds

*Bul 4190-FP-25
January 2005*

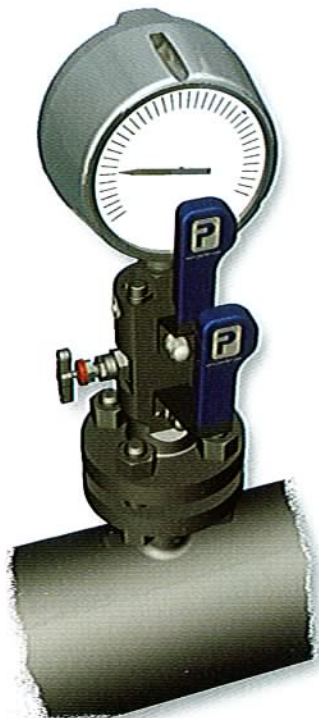


Pro-bloc® 25mm Full Bore Double Block and Bleed Manifolds

Pro-Bloc® (PB) Manifolds - 25mm Bore

Purpose

This manifold range is designed to replace conventional multiple-valve installations currently in use for interface with pressure measuring systems. By combining customer specified valves into a single manifold, the number of leak paths is considerably reduced and the mass of the system is lowered reducing the stresses from loading and vibration. The result of which substantially improves installation and operational safety factors. Reduction in leakage path connections together with a one-piece solution also provides positive installation cost savings.



Key advantages of Parker Pro-Bloc®

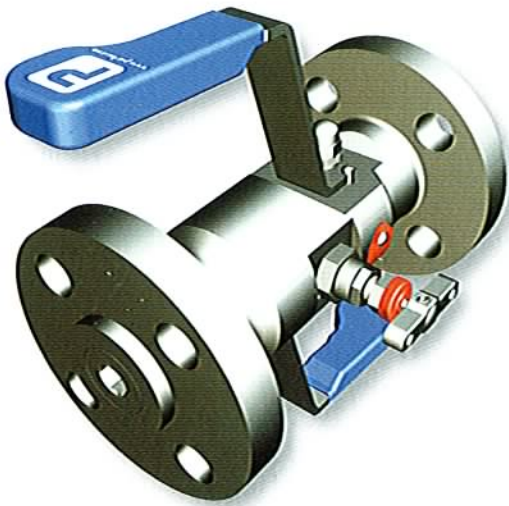
- Strong construction produced from one piece grain flow controlled forged body.
- Various flow and valve configurations available allowing true flexibility to meet all customer requirements.
- Single flange, double flange or triple flange configurations available.
- Standard materials of Carbon steel A105, Low Temperature Carbon steel A350 LF2, Stainless Steel A182-F316 and Duplex stainless steel A182-F51.
- Incorporation of standard Hi-Pro ball valve and "H" series needle valve technology.
- 25mm (1") full bore valve design. In addition to our existing 10mm (3/8") product
- Ergonomically designed operating handles with low torque function.
- User friendly part number and specification construction system.
- Parker Tru-loc™ (patent pending) safety system.
- Integral A-lok/CPI outlet connection.

	<p>Block bleed block Flange x screw 1st Isolate: Ball 2nd Isolate: Ball Vent: Needle</p> <p>PBV100</p>		<p>Block bleed block Flange x flange 1st Isolate: Ball 2nd Isolate: Ball Vent: Needle</p> <p>PBV200</p>
	<p>Block & bleed Flange x screw 1st Isolate: Ball Vent: Needle</p> <p>PBV130</p>		<p>Block & bleed Flange x flange 1st Isolate: Ball Vent: Needle</p> <p>PBV230</p>
	<p>Double block Flange x screw 1st Isolate: Ball 2nd Isolate: Ball</p> <p>PBV160</p>		<p>Double block Flange x flange 1st Isolate: Ball 2nd Isolate: Ball</p> <p>PBV260</p>

Pro-bloc® 25mm Full Bore Double Block and Bleed Manifolds



PBV100



PBV200

Pro-Bloc® features

- 1½" to 3" N.B. Flanges.
- ANSI B16.5 150 to 1500 flange class.
- 25mm (1") full bore valve design.
- 1 - 11.5 NPT (female) standard outlet.
- 1/2 - 14 NPT (female) standard vent.
- Variety of optional end connection sizes and thread forms including tube connections up to 1"/25mm diameter.
- Standard materials of construction: Stainless steel ASTM A182 F316/F316L, Carbon steel ASTM A350 LF2/A105, Duplex ASTM A182 F51.
- Other materials on request.
- Instrument connections A-LOK®/CPI™ available.
- Raised face and ring type joint flange face styles.
- One-piece forged construction flange as standard.
- Optional fire safe design, tested in accordance with API 607, BS 6755 Pt. 2.
- 316 stainless steel handles and trim as standard to reduce the risk of corrosion.
- Designed to meet the pressure and temperature requirements of ASME/ANSI B16.34/B16.5.
- Pressure boundary designs calculated to ASME VIII and verified by testing.
- 4:1 Factor of Safety.
- Heat code traceable material to EN10204.3.1.B.
- Bubble tight shut off.
- Colour coded functional valves.
- Optional locking and anti tamper devices for all valve types available.
- Positive lever stop.
- NACE MR.01.75/ISO 15156 compliance available on request.
- Large user friendly handles.
- Permanent affixed reference label.
- O.S.&Y. and "H" series needle valves can be combined with ball valves.

Standard specification flange x screw:
Outlet - 1" FNPT; Vent - 1/2" FNPT plugged;
Ball seats. P.T.F.E.; Needle seats, metal/metal
17/4 PH St. St.; P.T.F.E. packing all valves.

Pro-bloc® 25mm Full Bore Double Block and Bleed Manifolds

Example PBV100 B 32T1500 F

1. Pro-Bloc part number
Insert from page 2

2. Material

- A Carbon Steel ASTM A105
- B Stainless Steel ASTM A182-F316
- E Duplex ASTM A182-F51
- H Low Temp. C. St. ASTM A350 LF2

3. Flange details

Flange Size	Flange Face Style	Flange Class
24 = 1 1/2"	F = Raised Face Spiral	150 = 150 lb
32 = 2"	T = Ring Type Joint	300 = 300 lb
48 = 3"		600 = 600 lb
		900 = 900 lb
		1500 = 1500lb

4. Outlet style (1" NPTF is standard
NO part designator needed)

Size	Connection Style
M25 = 25mm	F = Female NPT Thread
16 = 1"	M = Male NPT Thread
	A = A-LOK
	Z = CPI

5.

N/A

8. Certification & condition

- F Firesafe design and certified
 - H Heat code certificates to EN10204.3.1.B
 - N NACE
- Combine designators as required

7. Valve handle operating options

- A* Anti tamper (Needle Valve only)
- L* Padlock handle locking
- S* Spanner actuated (Ball Valve only)

* Insert valve number 1 = primary, 2 = secondary, 3 = vent, 4 = all. Padlocks not supplied

6. Packing, seat and construction options

- * PTFE Packing
 - * PTFE Ball seats
 - * Needle tip 17-4PH St. St.
 - PK PEEK Ball and needle seating
 - PB PEEK Ball seats
 - PN PEEK Needle tip
 - BC Bolted construction connection
- * fitted as standard no part NO designator required.

IMPORTANT NOTES

All non wetted parts will be supplied in standard stainless steel for exotic materials. For carbon steel construction trim materials will be supplied in stainless steel.

St. St. grades 302 and 304 are NOT used in the construction of any of these products.

For customer specific options not covered here engineering will allocate a part number at quotation stage.

Certification requirements and customer specifications MUST be provided at enquiry and order stage.

Part number example PBV100B32T2500F Pro-Bloc - Flange by screw - Double Block and Bleed - Block (Ball) Bleed (Needle) Block (Ball) (PBV100) - 316 St. St. construction (B) - 2" Pipe flange, Ring type joint, class 1500 (32T1500) - 1" female NPT outlet - 1/2" Female NPT vent - Firesafe design and certified (F), all valves PTFE packed, ball seats PTFE, needle valve metal seated 17-4PH st.st. tips.



Parker Hannifin plc.
Instrumentation Products Division
Riverside Road
Pottington Business Park
Barnstaple, Devon EX31 1NP
England
Tel: +44 (0)1271 313131
Fax: +44 (0)1271 373636
Website: www.parker.com/ipd
E-mail: ipd@parker.com