

Cast Iron Pressure Balanced Plug Valve



SHORT PATTERN - INVERTED TYPE

LEVER OPERATED - MAX. W.P. 100, 200 PSIG

RASHTRIA Pressure Balance Plug Valves have been developed to reduce the operating torque in Plug Valves without compromising on the in-line maintenance capability. The plug and body seating surfaces, which are lapped and matched, are not exposed to the line fluid while valve is open condition, this confines corrosion and erosion to less critical areas. Sealing is further enhanced by specially developed plug sealants charged evenly around the seating surfaces. The plug is impregnated with P.T.F.E. which provides greater wear resistance and ensure consistent operating torque.

PRESSURE BALANCED PLUG

In pressure balanced Plug Valve, pressure balancing is achieved by providing two holes in the plug connecting the chambers at each end of the plug. The chambers, one fitted with a non-return valve, acts as a balancing mechanism for the plug. The pressure at the large end always equals the line pressure. The pressure at the small end is always equal to or greater than line pressure and thereby minimize resultant upward force.

IN - LINE MAINTENANCE

Pressure Balanced Cast Iron Plug Valves offer the in-line maintenance which eliminates the need to wait for a shut down. All valves are offered with an improved sealant charging system which consists of a button head screw for gun charging.

OPERATIONS

Pressure Balanced Cast Iron Plug Valves are supplied with Double 'D' stems suitable for wrench operation. However wrenches should be ordered separately. A square adapter can be fitted to the stem, on request, if the valve is to be operated by a square headed wrench.

RASHTRIA Cast Iron Pressure Balanced Plug Valves are supplied with RASHTRIA-300 plug sealant suitable for most services other than acid solutions and hydrocarbons. Valves are also supplied with RASHTRIA-200 Plug sealant which is suitable for hydrocarbon services.

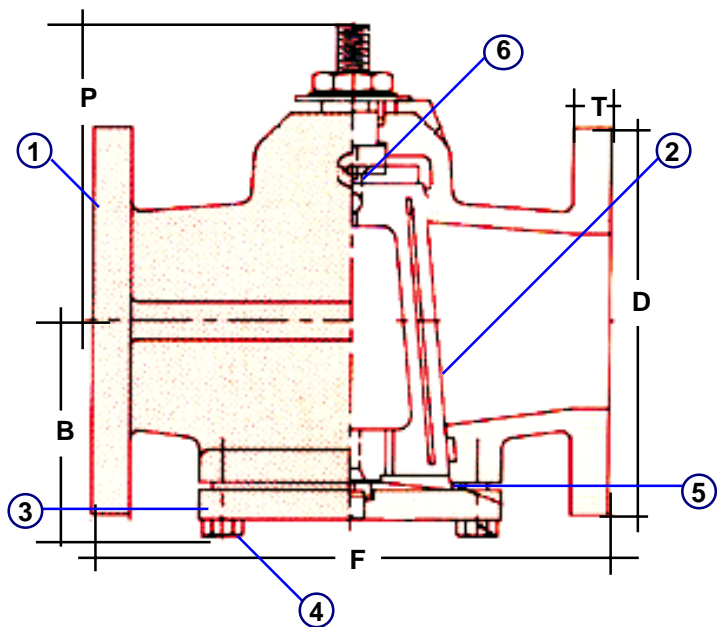
END CONNECTIONS

Valves can be offered with flanged ends to the following Standards :-

FLANGED : To match flanges drilled to BS 10 Table 'D', ASME/ANSI B 16.1 Class 125, DIN PN 10 or 4504 PN 10.

Valves can also be offered with undrilled flanges.

Size 6" and above have some holes (refer drg.) tapped on each flange to facilitate fastening of mating flanges and require studs of same diameter of the bolt which they replace. The tapping is to UNC threads for Class 125 & Table 'D' flanges and ISO metric for PN 10 flanges.



(ALL DIMENTIONS IN MM)

VALVE SIZE IN MM			50	80	100	150	200
Face to Face		F	178	203	229	267	292
No. of tapped	BST 'D'		-	-	2	2	2
holes per flange	CL.125		-	-	2	2	2
Flange Diameter	BST 'D'	D	152	184	216	280	343
	CL.125		152	191	229	280	343
Flange Thickness	BST 'D'	T	19	19	23.8	25.4	28.5
	CL.125		19	19	23.8	25.4	28.5
C/L to bottom of Valve		B	78	110	118	150	178
C/L to top of the valve		P	143	155	171	198	253

Material

S. NO.	PART NAME	MATERIAL
1.	BODY	CAST IRON IS 210 GR. FG. 220
2.	PLUG	CAST IRON IS 210 GR. FG. 220
3.	COVER	CARBON STEEL ASTM A 105
4.	BOLTING	CARBON STEEL
5.	GASKET	COMPRESSED ASBESTOS
6.	SEALENT INJECTOR	CARBON STEEL

Test Pressure

	Test Pressure		Max. CWP
	Body	Seat	
Flanged BST 'D'	300	220	100
Flanged CL.125	300	220	100

SCALE : N.T.S.

Cast Iron Pressure Balanced Plug Valve Short Pattern - Inverted Type			
		Name	Date
Traced		Drawn	
Cat. No.	PBV 108	Compared	
Drg. No.	108	Checked	
Material		Approved	
Rashtria Metal & Steel Inds.(Regd) Jalandhar - 144 004 (India)			

Due to Continuos development , modifications are made by our Engineering Dept. Design & Data are subject to change without notice to give you a Better Product.