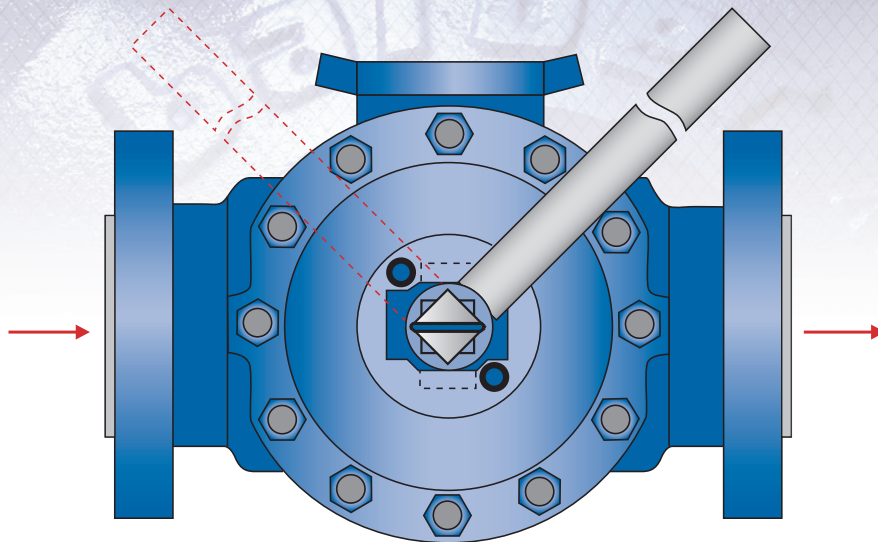


→ Model TMB 4" Pigging Valve

Installation Instructions Bulletin II4.1



Installation Instructions:

- 1 **Before Installing** the Pigging Valve, turn the operating stem so that the groove on the end of it is at right angles (perpendicular) to the flowline (valve closed position).
- 2 Remove the pig entry cap and look into the valve ball cavity to be certain that the stop frog is on the far side (Bottom) of the valve. (Note: There is no stop frog on pigging valves that are intended to send bullet pigs).
- 3 If the frog is not on the far side of the valve ball cavity, remove the positive stop plate from the stem and rotate the stem one-half a turn. Then install the stop plate back on the stem.
- 4 Locate the Pigging Valve, **for pig sending**, in the horizontal portion of the flowline near the wellhead if possible.
- 5 **For pig receiving** at the other end of the flowline, locate the pigging valve in a horizontal portion of the flowline if possible.
- 6 The pig entry cap and bleed valve should always be on the top to minimize product spillage when venting body pressure and inserting a pig. (The bleed valve should have a straight through 0.37" diameter flow pattern to provide rod-ability and to minimize plugging).
- 7 There is an additional bleed connection on the body, opposite the entry cap, that can be used to drain away body pressure.
- 8 When the Pigging Valve is being used as a sender, and the flow direction is from **left to right** as shown above, the positive stop plate should be positioned on the stem so that the valve is **open** when turned to the right (solid handle outline). The valve will then be **closed** when turned to the left (dotted handle outline).
- 9 When the Pigging Valve is being used as a **receiver**, and the flow direction is from **left to right** as shown above, the positive stop plate should be positioned on the stem so that the valve is **closed** when turned to the right (solid handle outline). The valve will then be **open** when turned to the left (dotted handle outline).
- 10 If the conditions are not being met (in 8 and 9), then remove the positive stop plate from the square stem and rotate it one-quarter of a turn (either direction) and install it back on the stem.

OPERATING INSTRUCTIONS:

CAUTION!! Pigging operations can be dangerous. Always proceed with care and perform each step one at a time.

Pig Ball Sending Procedure

- A. Close the valve (stem groove crosswise to flowline).
- B. Vent the body cavity pressure.
- C. Carefully remove the side entry cap.
- D. Insert the pig ball into valve ball cavity.
- E. Install the side entry cap.
- F. Open the valve (stem groove in line with flowline).

Pig Ball Receiving Procedure:

Same procedure as sending except to change item "D" to instruct as follows:

- D. Remove the pig from the valve ball cavity.

Bullet Pig Sending Procedure:

Use the same procedure as for sending pig balls but use only the pigging valves without a stop frog in the valve ball. (Note: The Pigging valve cannot be used for **receiving** bullet pigs).

➔ **Model TMB 4" Pigging Valve**

4" Pigging Valve Dimensions (fig. 1.1)

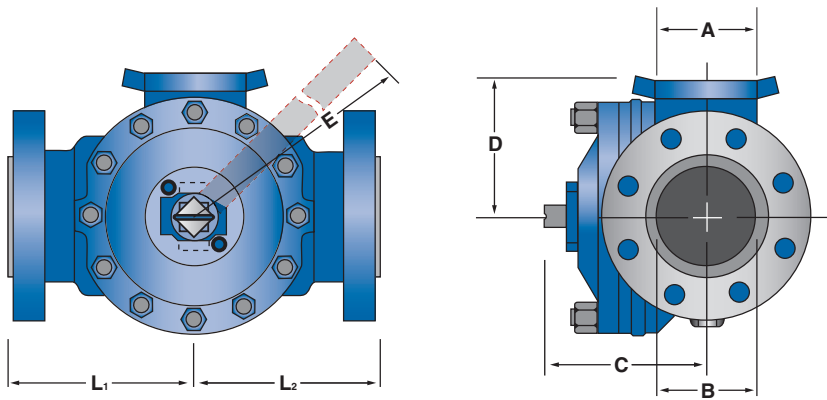


Fig 1.1

CONNECTIONS	LENGTH (INCHES)			WEIGHT
	(A.N.S.I.)	L ₁	L ₂	
300 RF	8.31	8.31	16.63	268
300 RTJ	8.62	8.62	17.25	270
600 RF	8.56	8.56	17.00	288
600 RTJ	8.62	8.62	17.12	293
900 RF	9.00	9.00	18.00	313
900 RTJ	9.06	9.06	18.12	318

A	Side Entry: Ball Core Bore	4.46"
B	Minimum Through Bore	4.06"
C	Stem Height	8.54"
D	Side Entry Cap Height	7.64"
E	Operating Handle	39.00"

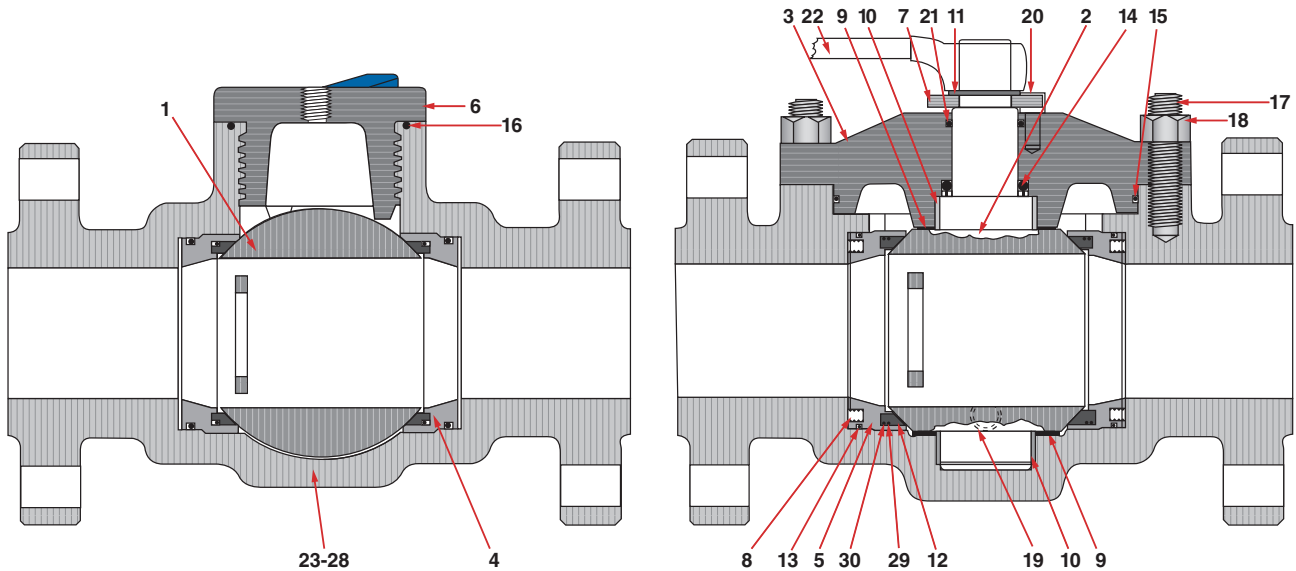


Fig 1.2

4" Pigging Valve Parts List (fig. 1.2)

ITEM NO.	PART NUMBER	NO. REQ'D.	DESCRIPTION	ITEM NO.	PART NUMBER	NO. REQ'D.	DESCRIPTION
00	10000031	1	4" PIG BALL VALVE ASS'Y 900# RTJ	14	74000019	1	STEM SEAL
00	10000036	1	4" PIG BALL VALVE ASS'Y 900# RF	15	71000055	1	BONNET SEAL
00	10000035	1	4" PIG BALL VALVE ASS'Y 600# RTJ	16	71000031	1	CAP "O" RING SEAL
00	10000034	1	4" PIG BALL VALVE ASS'Y 600# RF	17	10100175	12	STUD
00	10000033	1	4" PIG BALL VALVE ASS'Y 300# RTJ	18	70000036	12	HEX NUT
00	10000032	1	4" PIG BALL VALVE ASS'Y 300# RF	19	77000012	1	PIPE PLUG 1/2" NPT 3000#
01	10100160	1	BALL SUB ASS'Y	20	70000229	1	STOP
03	10100164	1	BONNET	21	71000024	1	DUST "O" RING SEAL
04	10110004	2	SEAT SUB ASS'Y	22	10100097	1	OPERATING WRENCH
05	10110005	2	SEAT CARRIER	23	10100176	1	BODY FLANGED 900# RTJ
06	10100170	1	SIDE ENTRY CAP	24	10100180	1	BODY FLANGED 300# RF
07	10100195	1	INDICATOR/STOP PLATE	25	10100183	1	BODY FLANGED 300# RTJ
08	75000061	24	SEAT SPRING	26	10100184	1	BODY FLANGED 600# RF
09	10100173	2	AXIAL BEARING	27	10100186	1	BODY FLANGED 600# RTJ
10	10100174	2	RADIAL BEARING	28	10100187	1	BODY FLANGED 900# RF
11	72000005	1	IND/STOP PLATE RETAINER	29	71000031	2	SEAT INSERT "O" RING
12	10110006	2	SEAT INSERT	30	71000083	2	SEAT INSERT BACK UP RING
13	71000030	2	SEAT "O" RING SEAL				