



SPECIFICATION

- * Body & end caps quality investment casting
- * Available in SS/ CS/ Special Alloy
- * with ISO 5211 direct mounting pad
- * Adjustable stem packing
- * Blow-out proof stem design
- * 100% air tested under water at 80-100 psi
- * Working pressure: Class150
- * Temperature range -20°F to 450°F

OPTION

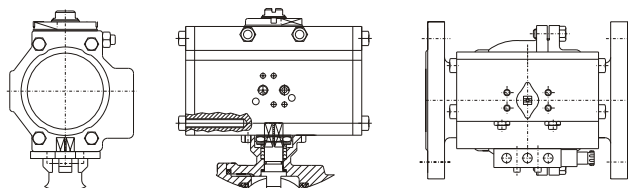
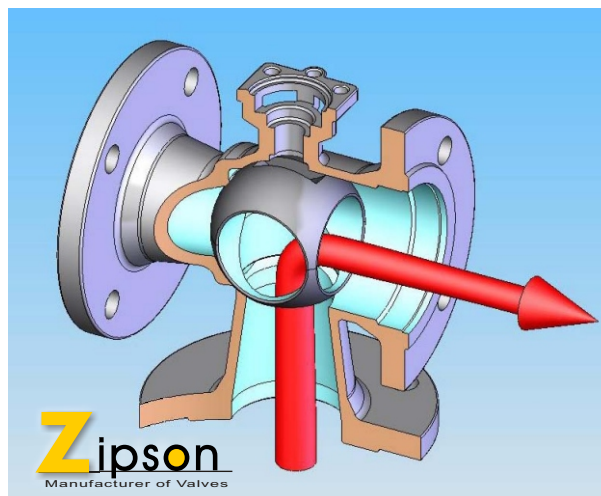
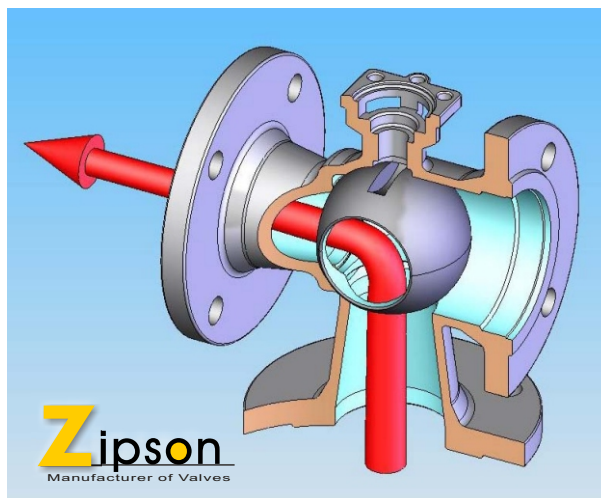
- * Automation application
- * TFM1600/ TFM4215/ PEEK/ UPE soft kits
- * High Temp. & Low Temp. Design
- * Fire safe design
- * PTFE/ PFA coating (40-70 um)
- * Hastalloy C/ Super duplex/ Duplex/ Alloy 20/ Monel
- * Anti-static devices
- * Other sizes are available as required

ZIPSON'S 117S, bottom entry flanged ball valve is designed for most industrial application. 117S designed with ISO direct mounting pad, it's convenient for mounting pneumatic/ electric actuator directly up the valve's ISO pad.

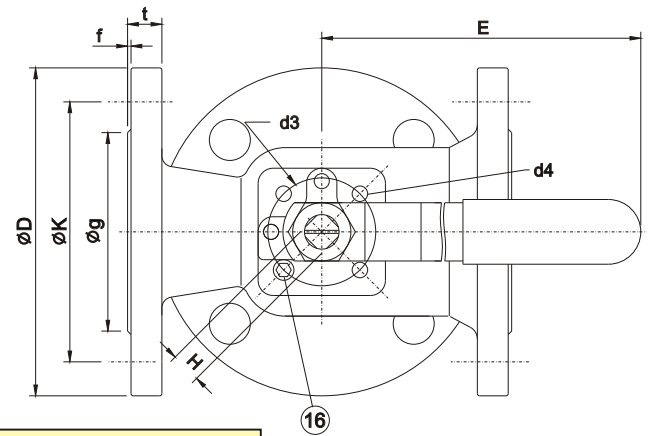
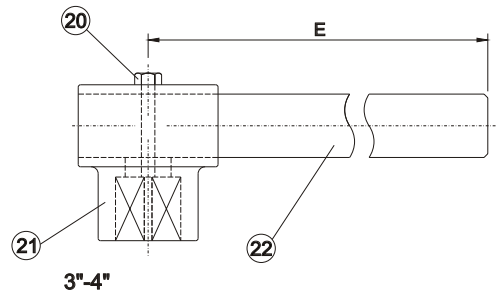
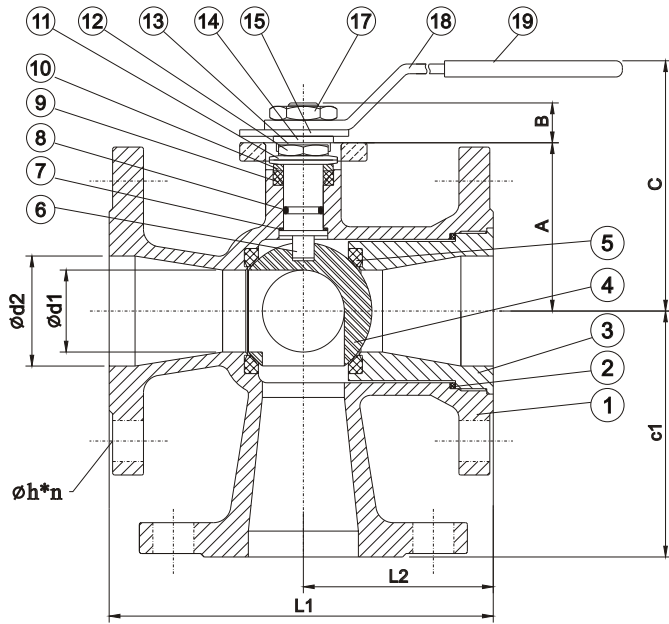
1-piece bottom entry flanged ball valve were designed by 90° operation with LL-port ball. 117S offer the size range from 2" to 4" at present and other sizes & pressure rating are available while asked.

Fire safe design with graphite stem packing & gasket is for option. The fire safe lips were existed in our standard design. You may need the valve to be with PTFE/ PFA coating on the surface of valve body/ end/ ball/ stem for anti-sticky function. This will also be convenient to clean the valve just flush by water.

TFM1600/ TFM4215/ UPE (UHMWPE)/ PEEK are available for different application as required. Hastalloy C/ Super Duplex/ Duplex/ Alloy 20/ Monel and other special alloy material are available as asked.



* Pneumatic (DA or SR)/ Electric actuator



MATERIALS LIST

NO.	NAME OF PARTS	MATERIALS OPTION	
		STAINLESS STEEL	CARBON STEEL
1	BODY	CF8M	WCB
2	GASKET	PTFE	PTFE
3	INSERT CAP	CF8M	WCB
4	BALL	SS 316	SS 316
5	BALL SEATS	PTFE	PTFE
6	STEM	SS 316	SS 316
7	THRUST WASHER	RPTFE	RPTFE
8	O-RING	VITON	VITON
9	STEM PACKING	PTFE	PTFE
10	GLAND WASHER	SS 304	SS 304
11	DISK WASHER	SS 301	SS 301
12	STEM NUT	SS 304	SS 304
13	NUT LOCK	SS 304	SS 304
14	GLAND WASHER	SS 304	SS 304
15	STOPPER	SS 304	SS 304
16	POSITION SCREW	SS 304	SS 304
17	HANDLE NUT	SS 304	SS 304
18	HANDLE	SS 304	SS 304
19	HANDLE COVER	VINYL PLASTISOL	VINYL PLASTISOL
20	SET BOLT	SS 304	SS 304
21	LEVER HEAD	CF8	CF8
22	LEVER	STEEL PIPE	STEEL PIPE

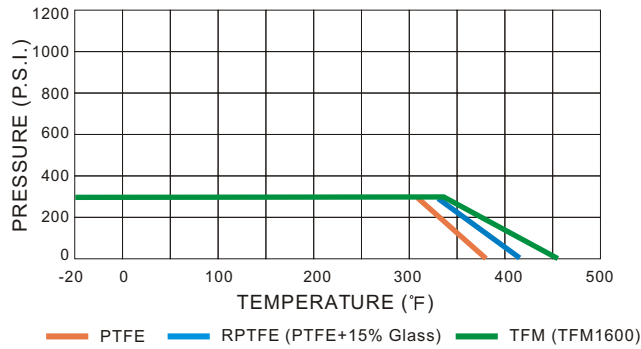
DIMENSIONS (mm)

SIZE	A	B	C	C1	d1	d2	d3	d4	E	H	L1	L2	FLANGE DIMENSIONS (CLASS 150)						
													D	BOLT HOLE			t	g	f
														K	h	n			
2"	78	18	120	114	38.1	50.8	50	7	205	14	178	75	152	120.5	19	4	15.9	92	1.6
3"	98	23	155	145	58	76.2	70	9.2	340	17	203	85	190	152.5	19	4	19.1	127	1.6
4"	118	23	185	182	76	101.6	70	9.2	340	17	229	95	229	190.5	19	8	24.0	157	1.6

BREAK-TORQUE VALUE for ASME150 (Nm/ at 0 psi)

SIZE	1"	1 1/2"	2"	3"	4"	6"
GREASE	7.2	13	20	54	62	230
NON-GREASE	9.4	18.2	30	95	132	-

PRESSURE/ TEMPERATURE ASME150



Suggestion!

1. As dismantle the ball valve, don't forget to replace new Repair Kits, especially the gasket to prevent from leaking.
2. PTFE is better than RPTFE (+15% Glass) as operate the valve by actuator, for Glass fiber will hurt the ball and cause the torque value increasing after over 500 times operation. Another good option is TFM or PTFE+25% Carbon.
3. Before welding the valves, make sure the ends were dismantled. And welding the dismantled ends. After all the ends be cool, assemble the ends & use new gasket to prevent from leaking.