Zipson
Manufacturer of Valves

Item 302SD
3-Piece Sanitary Ball Valve

800WOG/ PN 55
SIZE: 1/2"-4"

SPECIFICATION

* Body & end caps quality investment casting
* with ISO 5211 direct mounting pad
* Adjustable stem packing
* Available in stainless steel or carbon steel
* Blow-out proof stem design
* 100% air tested under water at 80-100 psi
* Working pressure: 1000/ 800/ 600 psi
* Temperature range (PTFE) -20℉ to 350℉
* Temperature range (TFM) -20℉ to 420℉
* with locking function
* End type: T-Clamp, Tube weld, Extended tube weld
* 6 bolts & nuts for 4" valve

OPTION

* Spring return handle (dead man handle)
* Oval handle
* Cavity filler seats
* Polish to custom's specification
* ASME/ BPE (for SS316L)
  low ferrite (〈3%)
  low sulphur (0.005% to 0.017%)
* Automation application
* PTFE/ PFA coating (40-70 um)
* Hastalloy C/ Super duplex/ Alloy 20/ Monel

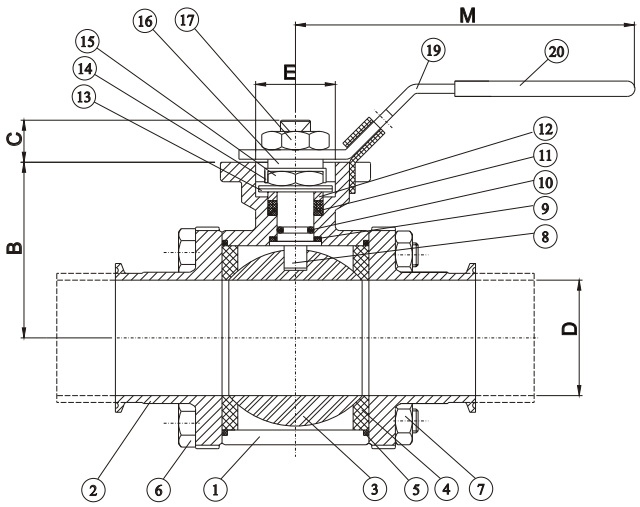
ZIPSON'S 302SD, 3-piece sanitary ball valve with ISO direct mounting pad is designed for food, biological, pharmaceutics or similar industries.

The cavity filled seat option will help not to remain the media in the body cavity to keep from spoiling or mixing. Cavity filler seats will also help to clean the valve port easily.

The options on end types can be T-Clamp, Tube weld end, Extended tube weld end. Different material of soft kits will be applicable for different working circumstance.

ASME/ BPE (for SS316L) standard are available on 302SD, with low ferrite (〈3%), and low sulphur (0.005% to 0.017%). The finish are available for Ra 40 uin or Ra 25 u-in.

The standard bare stem type is well designed for mounting actuator directly. ZIPSON offer pneumatic/ electric actuator and limit switch box/ solenoid valve/ modulating controller....assembling without further charge.



DIMENSIONS (mm)

SIZE	A1	A2	B	C	D	d1	d2	d3	d4	E	H	M	ISO 5211 Pattern
1/2"	124.5	88.9	35	9.5	9.6	42	36	6.0	6.0	25	9	135	F03／F04
3/4"	142.2	101.6	39	9.5	15.8	42	36	6.0	6.0	25	9	135	F03／F04
1"	162.5	114.3	48	14	22.1	50	42	7.0	6.0	30	11	155	F04／F05
1 1/2"	182.8	139.7	61	18	34.8	70	50	9.2	7.0	35	14	205	F05／F07
2"	193.0	158.8	70	18	47.5	70	50	9.2	7.0	35	14	205	F05／F07
2 1/2"	254.0	171.5	90	22	60.2	102	70	11.3	9.0	55	17	290	F07／F10
3"	279.5	196.8	99	22	72.9	102	70	11.3	9.0	55	17	290	F07／F10
4"	304.8	241.3	131	26	97.3	125	102	13.5	11.3	70	22	335	F10／F12

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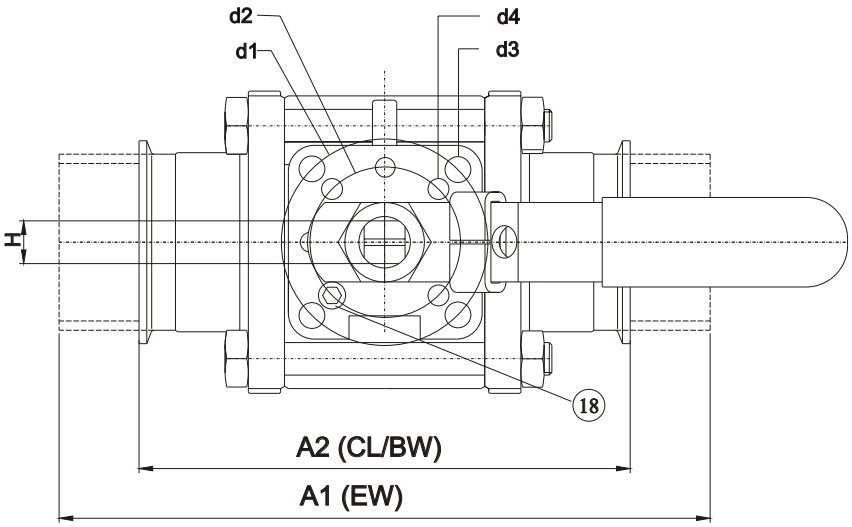
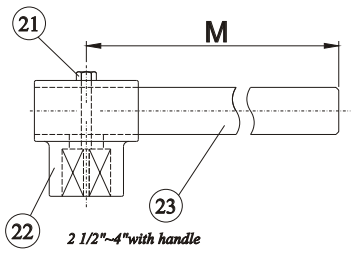
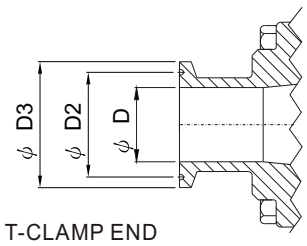


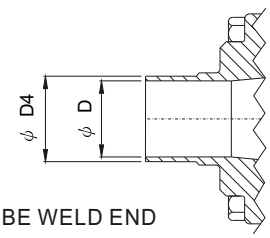


DIMENSIONS (mm)

SIZE	D	D2	D3	D4
1/2"	9.6	21.7	25	12.7
3/4"	15.8	21.7	25	19.05
1"	22.1	43.5	50.4	25.4
1 1/2"	34.8	43.5	50.4	38.1
2"	47.5	56.5	63.9	50.8
2 1/2"	60.2	70.5	77.4	63.5
3"	72.9	83.3	90.9	76.2
4"	97.3	110.3	118.9	101.6



T-CLAMP END



TUBE WELD END

MATERIALS LIST

NO.	NAME OF PARTS	MATERIALS	OPTION	QTY
1	BODY	A351 Gr. CF8M	A351 Gr. CF3M	1
2	END CAP	A351 Gr. CF8M	A351 Gr. CF3M	2
3	BALL	SS 316	SS 316L	1
4	BALL SEAT	PTFE	TFM1600	2
5	GASKET	PTFE	PTFE	2
6	BODY BOLT	SS 304	SS 304	4*
7	BODY NUT	SS 304	SS 304	4*
8	STEM	SS 316	SS 316L	1
9	THRUST WASHER	RPTFE	RPTFE	1
10	O-RING	VITION	VITION	1
11	STEM PACKING	PTFE	TFM	1 SET
12	GLAND WASHER	SS 304	SS 304	1
13	DISC WASHER	SS 301	SS 301	2
14	NUT STOPPER	SS 304	SS 304	1
15	STEM NUT	SS 304	SS 304	1
16	SPACE WASHER	SS 304	SS 304	1
17	HANDLE NUT	SS 304	SS 304	1
18	STOP PIN	SS 304	SS 304	1
19	HANDLE	SS 304	SS 304	1
20	SLEEVE	PLASTIC	PLASTIC	1
21	SET BOLT	SS 304	SS 304	1
22	LEVER HEAD	CF8	CF8	1
23	LEVER	STEEL PIPE	STEEL PIPE	1

* 4" with 6 bolts & nuts

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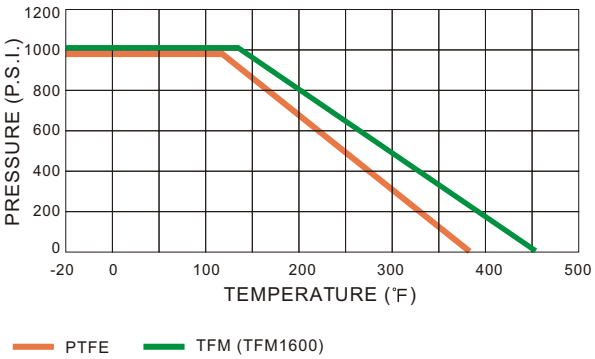
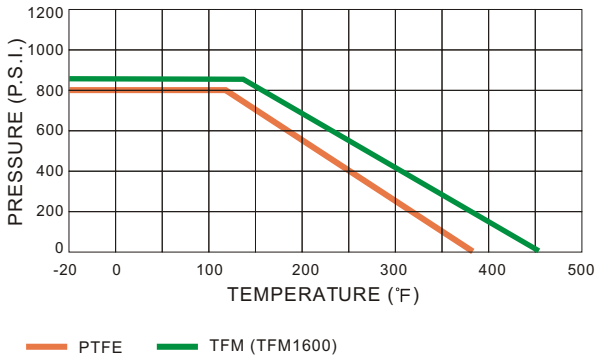
PRESSURE/ TEMPERATURE

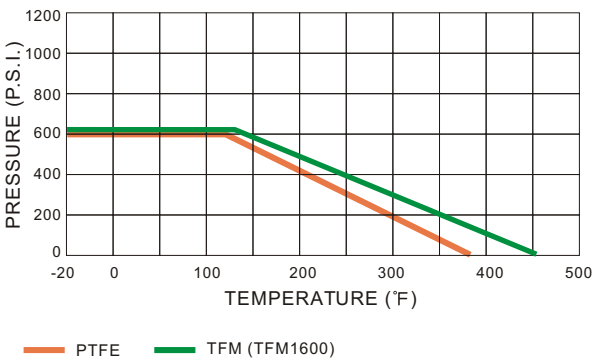
1/2"~1"

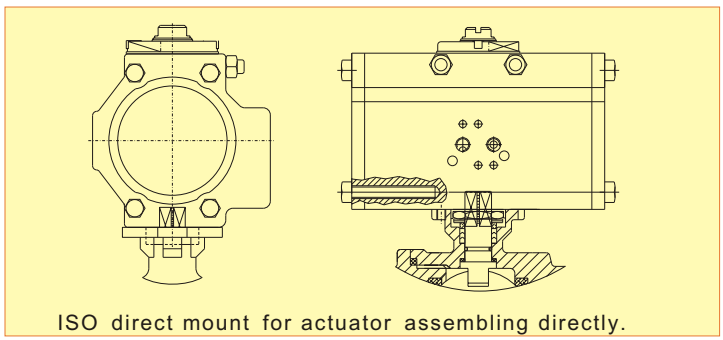


1-1/2"~2"



2-1/2"~4"





302SD, designed with ISO 5211 direct mounting pad

BREAK-TORQUE VALUE (Nm/ at 0 psi)

SIZE	1/2"	3/4"	1"	1-1/2"	2"	2- 1/2"	3"	4"
NON-GREASE	7	8	11	30	33	75	94	116

Note : Strongly suggest increasing at least 30%~40% for safety factor for mounting actuator.

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.

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