

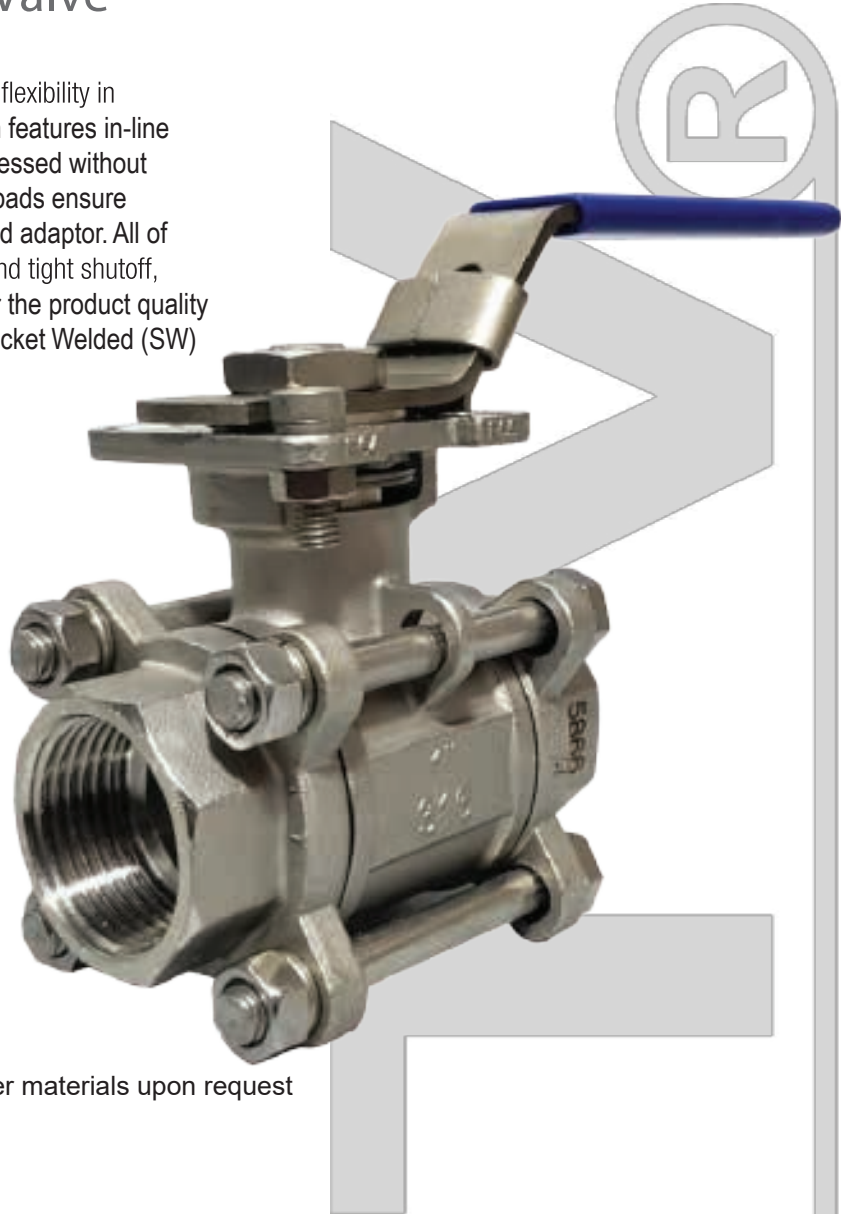
## SBM-PTV Series 100SP™ 3PC Ball Valve

SS316 CF8M/A216 WCB Body Material

Series 100SP™ Ball valve provide the 3-piece design with the highest flexibility in selection of end connections and seat materials. The 3-piece design features in-line and out-of-line maintenance as the center section can be easily accessed without disturbing the pipe connections. Integrally ISO 5211 cast mounting pads ensure alignment and convenience for ease automation with the bracket and adaptor. All of these valves are suitable for applications requiring high flow capacity and tight shutoff, where reliability, functionality and interchangeability are essential for the product quality at an economical price. Available ends: Female Threaded (NPT), Socket Welded (SW) and Butt Weld (BT).

### Features:

- A) Blow-out proof stem, Fire-safe design.
- B) Built in ISO 5211 direct mounting pad for easy automation
- C) Pressure balance hole in ball slot
- D) Various ends available
- E) Handle with locking device
- F) Full bore construction
- G) RPTFE Seat as standard
- H) Investment casting body
- I) Adjustable packing
- J) Disassembly is very convenient
- K) Standard body material SS316 CF8M and A216 WCB, other materials upon request

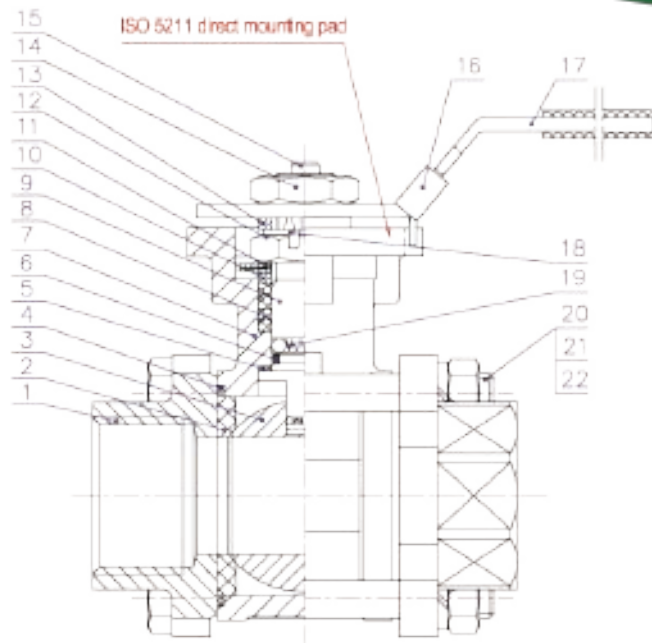


### Technical Data

1. Size range: NPS 1/4"~4"
2. Pressure ratings: 1000 PSI Non-Shock 150 PSI WSP
3. Working temperature: -29
4. Suitable Medium: Water, Oil, Gas, Steam. etc
5. Body Material: A351 CF8M / A216 WCB
7. Ball Material: A276 SS316
7. Stem Material: A276 SS316
8. Seat: RPTFE / PTFE

### Performance Standard

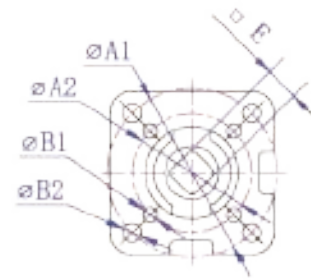
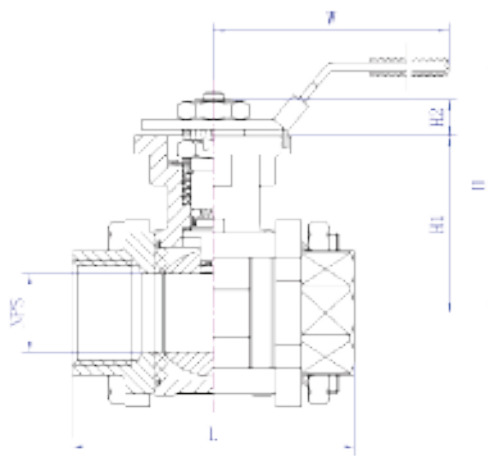
1. Design & Manufacture standard as to: ASME B16.34  
MSS SP-110
2. Face to Face dimension standard as to: MFR-STD  
SW : ASME B1.20.1  
BW : ASME B16.11
4. Testing and Inspection as to: API 598 / MSS SP-110  
/ EN 12266
5. Pressure-temperature conforms as to: ASME B16.34
6. Anti- Corrosion as per NACE MR-0175(2002) requirement



## Part List:

### 1000LT™ Ball Valve

No.	Part Name	Material	Standard
1.	Bonnet	CF8M	ASTM A351
2.	Seat	RPTFE	25% Carbon filled PTFE
3.	Ball	F316	ASTM A182
4.	Gasket	RPTFE	25% Carbon filled PTFE
5.	Stem Gasket	RPTFE	25% Carbon filled PTFE
6.	O-Ring	EPDM	BNS-D00040
7.	Body	CF8M / A216 WCB	ASTM A351 / A216 WCB
8.	Packing	RPTFE	25% Carbon filled PTFE
9.	Stem	F316	ASTM A182
10.	Packing Bushing	SS316	ASTM A276
11.	Butterfly Spring	SS316	ASTM A276
12.	Stem Nut	SS304	ASTM A276
13.	Packing Gland	CF8M	ASTM A351
14.	Locking Nut	SS304	A193 B8
15.	Stop Pin	SS304	ASTM A276
16.	Locking Device	SS201	ASTM A276
17.	Hand Lever	SS201+PVC	ASTM A276
18.	Anti Loosing Cap	SS304	ASTM A276
19.	Anti-Static Device	SS304	ASTM A276
20.	Bolt	SS304	A193 B8
21.	Gasket	SS304	ASTM A276
22.	Nut	SS304	A194 8

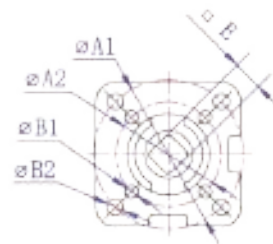
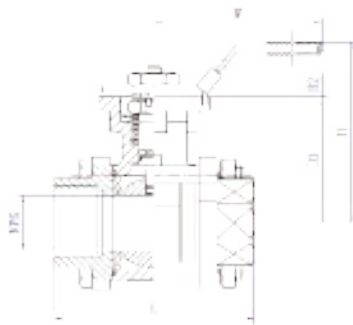


ISO 5211 Direct Mounting Pad

### Series 100SP™ Ball Valve Thread NPT End Dimensions:

1. Threaded dimension conforms as to:  
NPT ASME B1.20.1

NPS	NPT	d	L	H	H1	H2	cE	W	$\Phi A1$	$\Phi A2$	$\Phi B1$	$\Phi B2$	ISO5211	Weight (Kg)	Torque (N*M)
1/4"	1/4"	8	63	67	40	8	9	110	42	36	6	6	F03/F04	0.35	4
3/8"	3/8"	10	63	67	40	8	9	110	42	36	6	6	F03/F04	0.34	4
1/2"	1/2"	15	63	67	40	8	9	110	42	36	6	6	F03/F04	0.42	5
3/4"	3/4"	20	70	71	44	8	9	110	42	36	6	6	F03/F04	0.52	8
1"	1"	25	81	86	55	10	11	160	50	42	6	7	F04/F05	0.72	12
1 1/4"	1 1/4"	32	95	91.5	60.5	10	11	160	50	42	6	7	F04/F05	1.27	16
1 1/2"	1 1/2"	39	101	105.5	68.5	14	14	185	70	50	7	9	F05/F07	1.49	39
2"	2"	48	125	112.5	75.5	14	14	185	70	50	7	9	F05/F07	2.2	42
2 1/2"	2 1/2"	65	168	165	96	16	17	300	102	70	9	11	F07/F10	4.86	59
3"	3"	79	187	175	106.5	16	17	305	102	70	9	11	F07/F10	6.76	85
4"	4"	100	252	195	120	16	17	350	102	70	9	11	F07/F10	13.76	130



ISO 5211 Direct Mounting Pad

### Series 100SP™ Ball Valve Socket Weld End Dimensions:

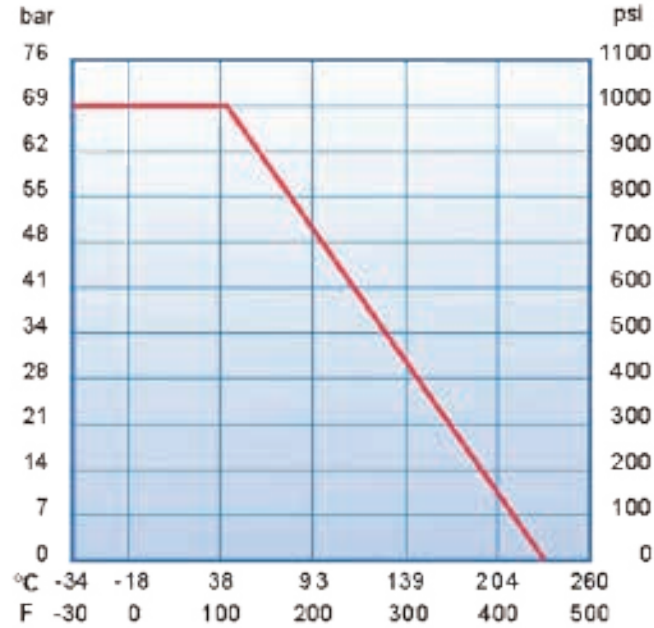
Socket Weld dimension conforms as to:  
ASME B16.11

NPS	S	A	d	L	H	H1	H2	cE	W	$\Phi A1$	$\Phi A2$	$\Phi B1$	$\Phi B2$	ISO5211	Weight (Kg)	Torque (N*M)
1/4"	14.1	9.6	8	63	67	40	8	9	110	42	36	6	6	F03/F04	0.35	4
3/8"	17.6	9.6	10	63	67	40	8	9	110	42	36	6	6	F03/F04	0.34	4
1/2"	21.8	9.6	15	63	67	40	8	9	110	42	36	6	6	F03/F04	0.42	5
3/4"	27.1	12.7	20	70	71	44	8	9	110	42	36	6	6	F03/F04	0.52	8
1"	33.8	12.7	25	81	86	55	10	11	160	50	42	6	7	F04/F05	0.72	12
1 1/4"	42.6	12.7	32	95	91.5	60.5	10	11	160	50	42	6	7	F04/F05	1.27	16
1 1/2"	48.7	12.7	39	101	105.5	68.5	14	14	185	70	50	7	9	F05/F07	1.49	39
2"	61.1	15.9	48	125	112.5	75.5	14	14	185	70	50	7	9	F05/F07	2.2	42
2 1/2"	73.9	15.9	65	168	165	96	16	17	300	102	70	9	11	F07/F010	4.86	59
3"	89.8	15.9	79	187	175	106.5	16	17	300	102	70	9	11	F07/F010	6.76	85
4"	115.2	15.9	100	240	195	120	16	17	300	102	70	9	11	F07/F010	13.76	130

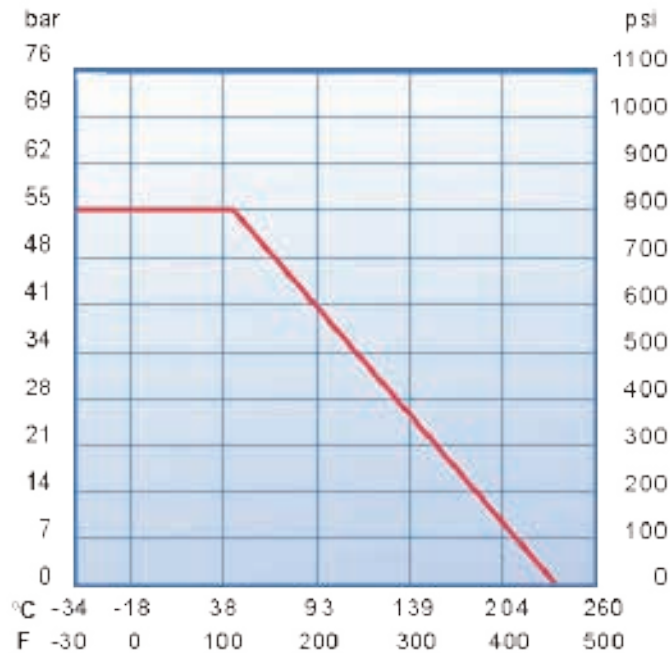
## SBM PTV Engineering Data

### Pressure and Temperature rating chart indicate bore size:

Size: 1/4" ~ 2" (DN8 ~ DN50)



Size: 2 1/2" ~ 4" (DN65 ~ DN100)



## ORDERING CODE:

**Example: 1000LT-222-1-200**

Ball Valve, SS316 CF8M Body, SS316 CF8M ball and stem,  
RPTFE Seat, NPT Thread, Size 2"

## Available Body Material Code:

SS304 CF8 Stainless Steel: 1

SS316 CF8M Stainless Steel: 2

SS316L CF3M Stainless Steel: 3

## Available Ball and Stem Material:

SS304 CF8 Stainless

Steel: 1 SS316 CF8M

Stainless Steel: 2 SS316L

CF3M Stainless Steel: 3

## Available End Code:

Female NPT Thread: 1

Female BSP Thread: 2

## Available Seat Material Code:

PTFE: 1

RPTFE: 2