

3 PCS FORGED STEEL BALL VALVES



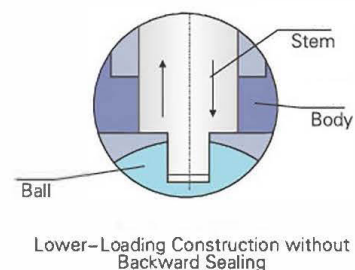
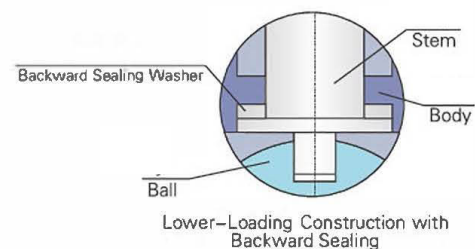
Ball valves are widely used in petroleum refining, chemical, paper making, pharmacy, food, water power, municipal, steel and other industries. Among them, sulfur-resistant series ball valves are particularly suitable for long-distance pipeline for transmission of high-corrosion natural gas with sulphuretted hydrogen medium and many impurities.

FULL & REDUCE BORE

In order to meet different needs of customers, we provide two series of ball valves, full bore and reduced bore ball valves. The channel inner diameter of full bore ball valves is consistent with the inner diameter of pipeline, which can not only minimize the fluid resistance but also facilitate pipeline cleaning. The fluid resistance of necked bore ball valves is much less than that of the globe valve with the same caliber while its weight is 30% lighter than ball valves with the same caliber. As a result, it can effectively reduce both the production cost and price, and is relatively widely used.

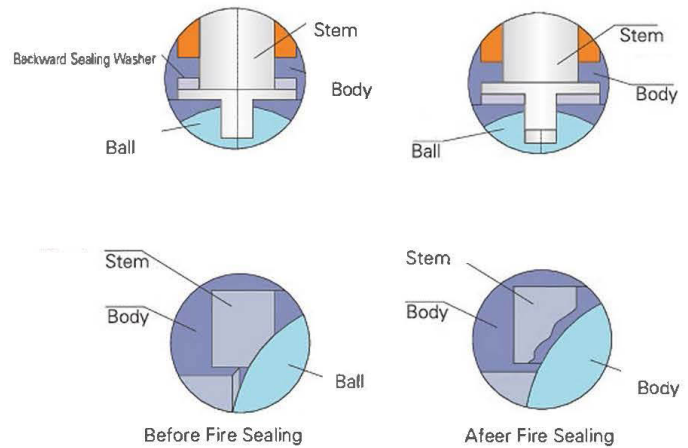
BLOW – OUT PROOF STEM

The stem is downloading, with its inverted sealing structure with sealing gasket. The force of inverted sealing structure will increase while the medium pressure in the valve cavity increases, to ensure the sealing effect of the stem. In case of abnormal pressure increasing of the valve cavity, the stem won't be impacted out. The filler is designed with proper V-shaped structure, which can effectively convert the medium pressure inside the valve cavity and the locking force of outer gland into the sealing force of stem (Figure 1).



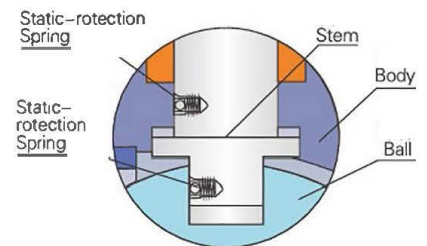
FIRE SAFE SEAT SEALING

According to the user's requirement, the ball valve can be designed with fire-resistant structure. In case of a fire and the sealing ring is damaged, every sealing part of the ball valve can form the structure of metal-to-metal hard seal, which can prevent the spreading of both the media and fire (Figure 2).



STATIC-PROTECTING CONSTRUCTION

The ball valve could be designed as static-protecting construction as required, namely, mounting conductive spring between the globe body and stem, or between the stem and body. There after the static engendered during opening the valve could be conducted to pipelines then earth through the pre-set static passage to clear static away. The design works to prevent igniting combustible medium by static fire-striking for the system safety. (As shown in Figure 9)



INTERLOCKING DEVICE

For valves installed outdoors, those preventing improper operation of non-workers and valves, of which collision of its stem in relatively violent vibration occasions easily causes improper operation, a locking bore can be set in the fully open position or fully closed position and a lock can be used if needed, for the purpose of security insurance (Figure 4).

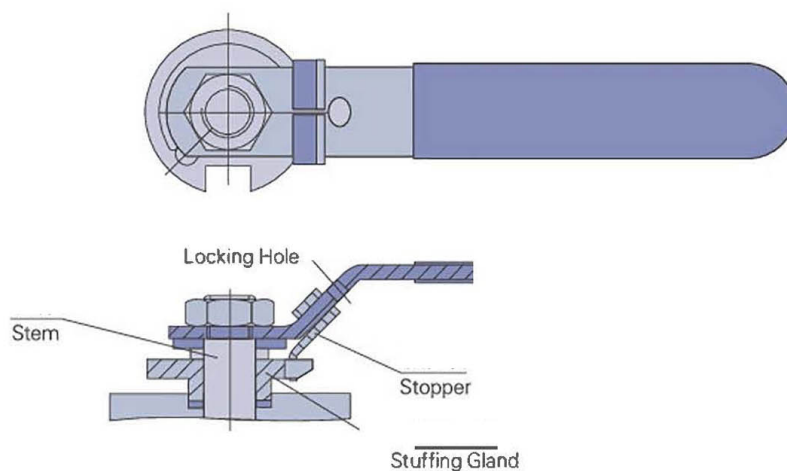
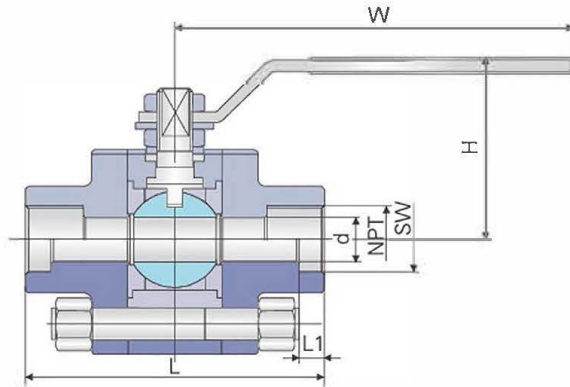


Figure 12

3 PCS FORGED STEEL BALL VALVES 800LB/1500LB



APPLICATION SPECIFICATIONS

1. BS5351 MSS SP-118 Design and manufacture conform to BS 5351 MSS SP-118
2. Connection ends conform to:
 - 1) ANSI B16.11; JB/T1715 Socket welded ends conform to ANSI B16.11; JB/T1715
 - 2) ANSI B1.12.1; JB/T7306 Screw ends conform to ANSI B1.12.1; JB/T7306
 - 3) ANSI B16.25; JB/T12224 Butted-welded ends conform to ANSI B16.25; JB/T12224
3. API 598; GB/T13927; JB/T9092 Test and inspection conform to API 598; GB/T13927; JB/T9092
4. ANSI/ASTM Materials conform to ANSI/ASTM

MAIN PARTS AND MATERIALS

NO	Part name	CARBON STEEL	STAINLESS STEEL
1	Body	A105 F304	F316 F316L
2	Ball	SS304	SS316 SS316L
3	Stem	SS304	SS316 SS316L
4	Seat	PTFE, RTFE	
5	Gasket	O-RING, PTFE, GRAPHITE	
6	Stuffing	PTFE, GRAPHITE	
7	Fix Gasket	PTFE	
8	Locating piece	A283D, STAINLESS STEEL	
9	Lever	A283D, Stainless steel	
10	Stem nut	Stainless steel A276-T304	
11	Stop pin	Stainless steel A276-T304	
12	NUT	A194-2H	A194-8
13	STUD BOLT	A193-B7	A193-B8

VALVE BODY PRESSURE RATING
 Class 800, Max 1920 psig @ 100 °F
 Class 1500, Max 3600 psig @ 100 °F

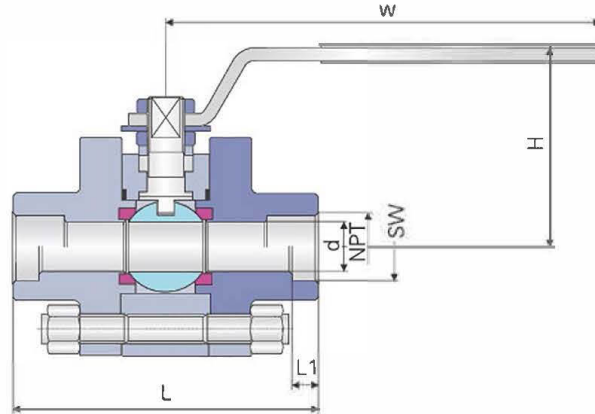
DIMENSION TABLE

RB	FB	L	d	NPT		SW		L1		H	W	WEIGHT (kg)
				RB	FB	RB	FB	RB	FB			
3/8x1/4"	1/4"	92	9.5	3/8"	1/4"	17.6	14.2	9.6	9.6	53	130	1.5
1/2x3/8"	3/8"	92	9.5	1/2"	3/8"	21.8	17.6	9.6	9.6	53	130	1.5
3/4x1/2"	1/2"	92	13	3/4"	1/2"	27.1	21.8	12.7	9.6	56	130	1.5
1x3/4"	3/4"	111	18	1"	3/4"	33.8	27.1	12.7	12.7	70	160	2.4
1 1/4x1"	1"	127	24	1 1/4"	1"	42.6	33.8	12.7	12.7	80	220	3.9
1 1/2x1 1/4"	1 1/4"	140	30	1 1/2"	1 1/4"	48.7	42.6	12.7	12.7	90	250	6.1
2x1 1/2"	1 1/2"	152	38	2"	1 1/2"	61.2	48.7	15.9	12.7	100	250	8.5
2 1/2x2"	2"	178	48	2 1/2"	2"	74.1	61.2	15.9	15.9	110	290	10

3 PCS FORGED STEEL BALL VALVES 2500LB

APPLICATION SPECIFICATIONS

- 1.BS5351 MSS SP-118 Design and manufacture conform to BS5351 MSS SP-118
- 2.Connection ends conform to:
 - 1)ANSI B16.11 JB/T1715 Socket welded ends conform to ANSI B16.11 JB/T1715
 - 2)ANSI B1.12.1 JB/T7306 Screw ends conform to ANSI B1.12.1 JB/T7306
 - 3)ANSI B16.25 JB/T12224 Butt-welded ends conform to ANSI B16.25 JB/T12224
- 3.API598 GB/T13927 JB/T 9092 Test and inspection conform to API598 GB/T13927 JB/T9092
- 4.ANSI/ASTM Materials conform to ANSI/ASTM



MAIN PARTS AND MATERIALS

NO	Part name	CARBON STEEL		STAINLESS STEEL	
1	Body	A105	F304	F316	F316L
2	Ball	SS304	SS304	SS316	SS316L
3	Stem	SS304	SS304	SS316	SS316L
4	Seat	PEEK			
5	Gasket	O-RING, PTFE, GRAPHITE			
6	Stuffing	PTFE, GRAPHITE			
7	Fix Gasket	PTFE			
8	Locating piece	A283D, STAINLESS STEEL			
9	Lever	A283D, Stainless steel			
10	Stem nut	Stainless steel A276-T304			
11	Stop pin	Stainless steel A276-T304			
12	NUT	A194-2H		A194-8	
13	STUD BOLT	A193-B7		A193-B8	

VALVE BODY PRESSURE RATING

Class 2500, Max 6000 psig @ 100 °F

DIMENSION TABLE

RB	FB	L	d	NPT		SW		L1		H	W	WEIGHT (kg)
				RB	FB	RB	FB	RB	FB			
3/8x1/4"	1/4"	111	9.5	3/8"	1/4"	17.6	14.2	9.6	9.6	53	160	2.4
1/2x3/8"	3/8"	111	9.5	1/2"	3/8"	21.8	17.6	9.6	9.6	53	160	2.4
3/4x1/2"	1/2"	111	13	3/4"	1/2"	27.1	21.8	12.7	9.6	56	160	2.4
1x3/4"	3/4"	127	18	1"	3/4"	33.8	27.1	12.7	12.7	70	220	2.8
1 1/4x1"	1"	140	24	1 1/4"	1"	42.6	33.8	12.7	12.7	80	250	6
1 1/2x1 1/4"	1 1/4"	152	30	1 1/2"	1 1/4"	48.7	42.6	12.7	12.7	90	250	10.7
2x1 1/2"	1 1/2"	178	38	2"	1 1/2"	61.2	48.7	15.9	12.7	100	290	12.1
2 1/2x2"	2"	203	48	2 1/2"	2"	74.1	61.2	15.9	15.9	110	380	18.3