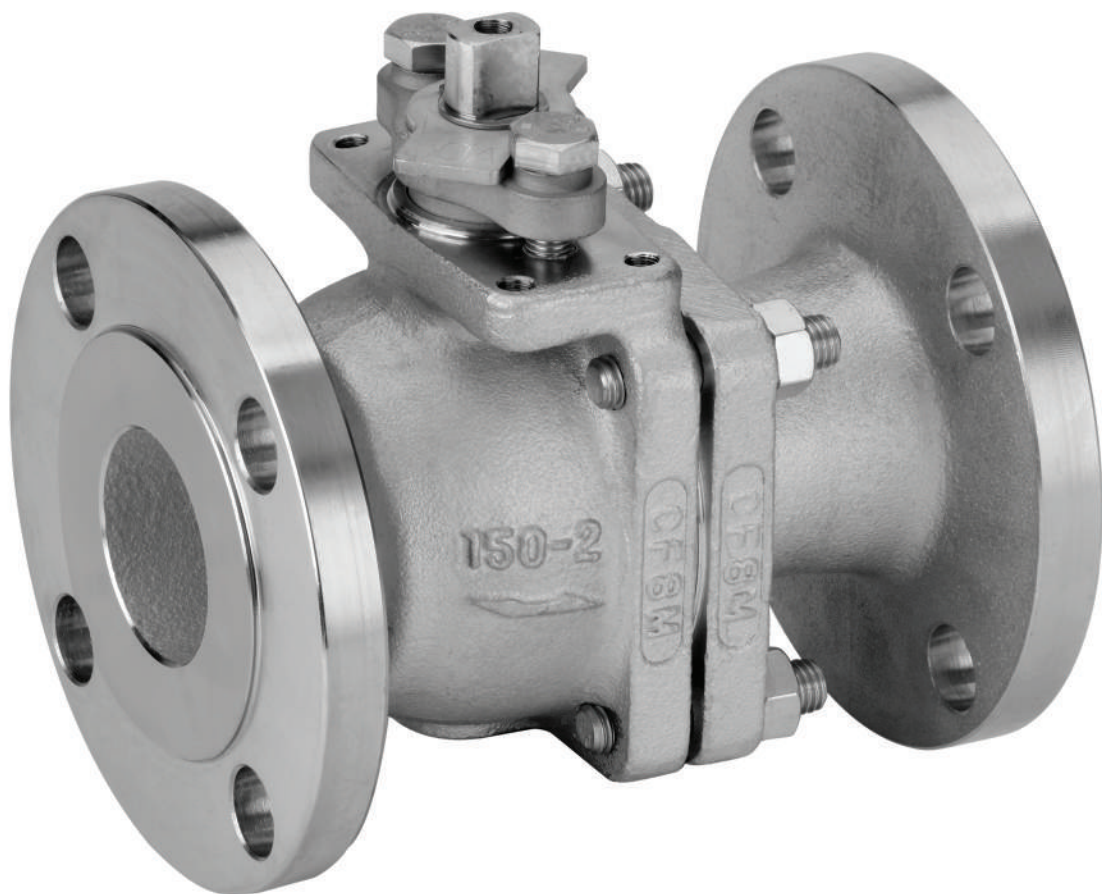


# FLOATING BALL VALVES

## Series B6



## B6 Series Floating ball valves

For more than 25 years StarVal® has supplied valves around the world for a wide variety of applications where drop tight shutoff is an absolute requirement. Our B6 ball valves have been used on the most corrosive and difficult services in a great range of industries including chemical, petrochemical, oil and gas, mineral processing and many others since they offer the quality and reliability required of our customers.

### Available in sizes

1/2"(15 mm) to 12"(300 mm)

### Double D High strength stem

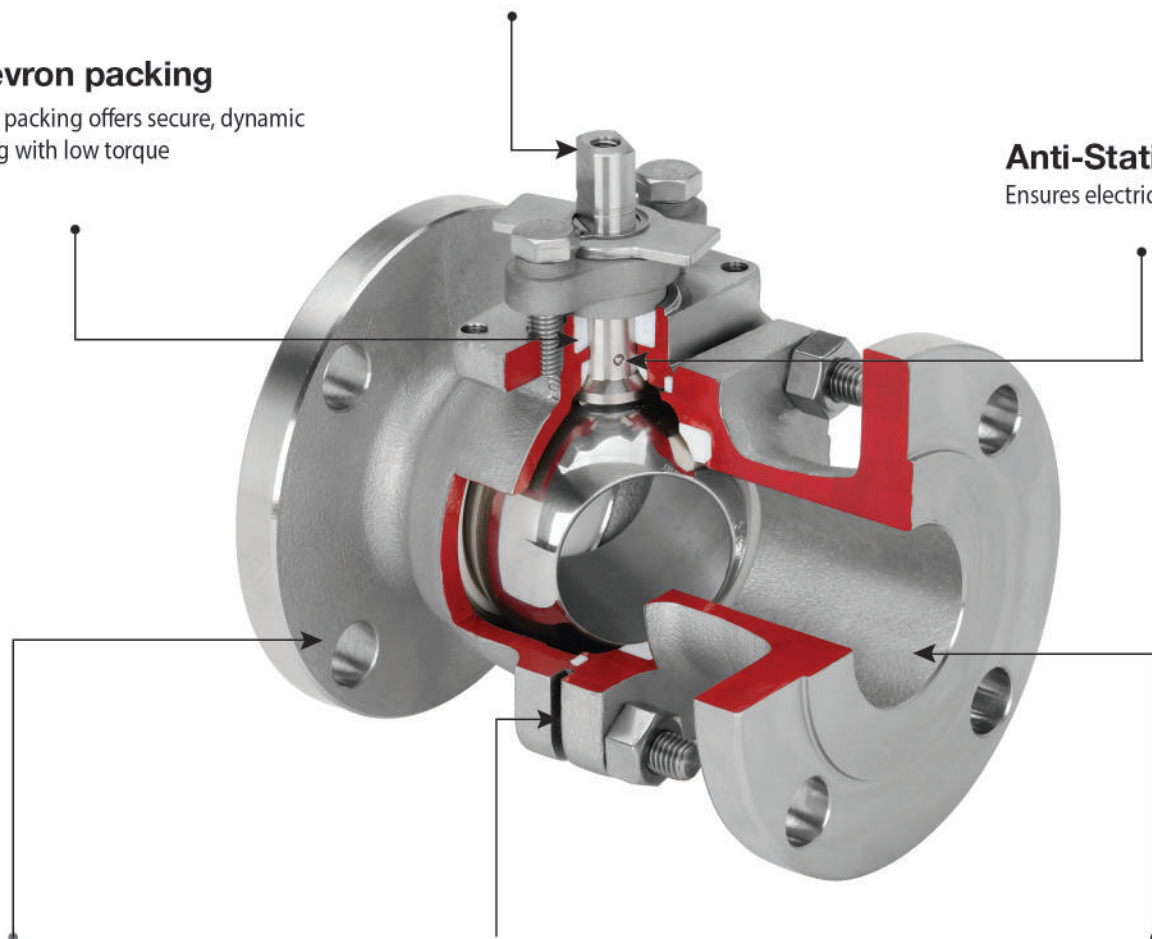
Adapts readily to our wide range of pneumatic and electric actuators

### Chevron packing

V-ring packing offers secure, dynamic sealing with low torque

### Anti-Static device

Ensures electrical conductivity



### Flanges

ASME(ANSI) Cl.150/300 flanges are standard. Other end connections are also available

### Rugged heavy-Duty Body

We offer a lifetime guarantee on our casting if the valves are used within our design parameters

### High Flow Capacity

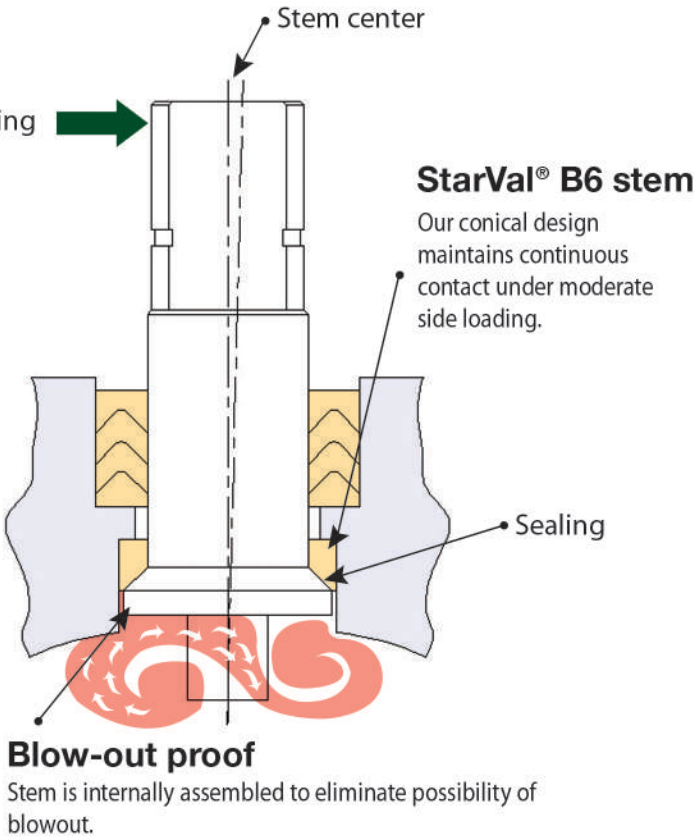
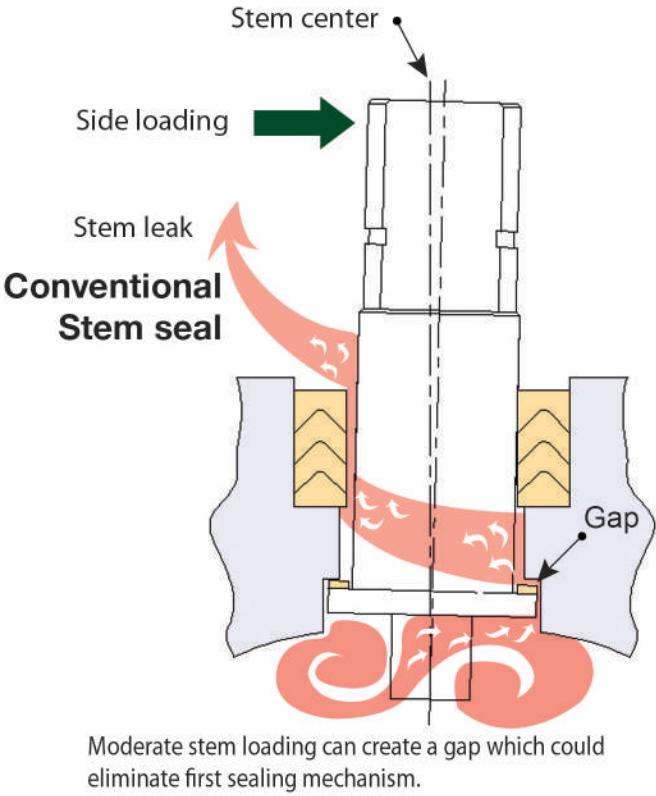
Full bore opening offers higher Cv values and ensures lower pressure drops, hence reducing energy costs

### Wide Materials Selection

WCB, LCB, Stainless steel, high alloys are available

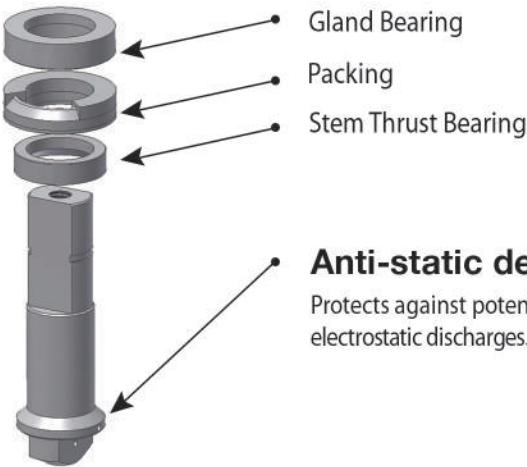
# Features & Benefits of B6 Ball valves

## Stem Features



### Stem assembly

Stem rotates in reinforced PTFE bearings which eliminates excessive load on packing and helps to maintain reduced torques.



### Anti-static device

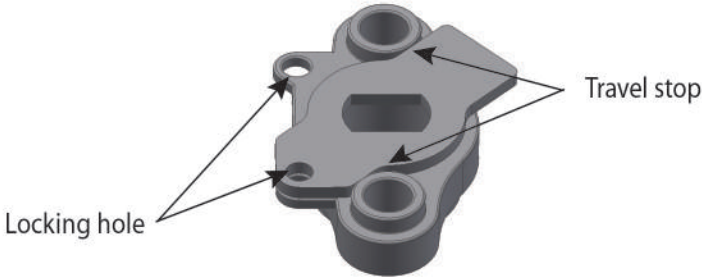
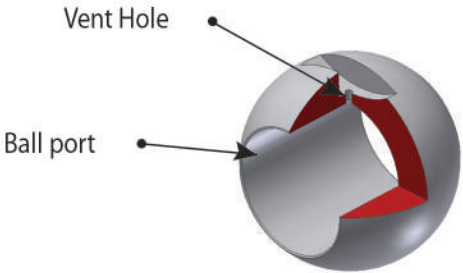
Protects against potentially dangerous electrostatic discharges.

### Gland & Stopper

Precisely machined investment cast parts ensure accurate closing and opening positions. Locking mechanism is available as option.

### Safety (Vent) Hole

Relieves the pressure differential between the body cavity and the ball port to prevent buildup of trapped pressure and to prolong the life of the stem seals.



# VALVE SEAT MATERIAL SELECTION GUIDE

StarVal® offers a wide range of interchangeable seats which allow us to handle difficult services such as steam, abrasive fluids, high temperatures, corrosives and others.

Seat Material	Description	Temperature range	Color
<b>RTFE</b>	Standard seat. Glass filler adds durability to PTFE.	-50°F (-45°C) To 400°F (204°C)	Chalky White
<b>PTFE</b>	Offers virtual universal chemical resistance. Can be used, where glass is not chemically compatible.	-50°F (-45°C) To 400°F (204°C)	White
<b>Starfill-A</b>	Exceptional resistance to chemical attack, high temperature and abrasive fluids.	-70°F (-57°C) To 450°F (230°C)	Black
<b>Starfill-B</b>	Excellent wear properties, particularly against soft metals.	-70°F (-57°C) To 450°F (230°C)	Black
<b>Starfill-C</b>	Offers lower deformation under load and increased hardness. It is chemically inert and can be used in strong alkali and HF, where glass reinforced compounds fail.	-70°F (-57°C) To 450°F (230°C)	Black
<b>Starfill-D</b>	Modified PTFE that maintains the exceptional chemical resistance of conventional PTFE, but features reduced cold flow, lower porosity and permeability, and lower void content.	-50°F (-45°C) To 500°F (260°C)	White
<b>Starfill-E</b>	Modified suspension PTFE containing 25% electro-graphitized carbon. It has the same excellent chemical resistance as conventional PTFE but features substantially lower deformation under load and improved stress recovery, particularly at elevated temperatures. Extreme resistance to embrittlement and stress cracking.	-50°F (-45°C) To 550°F (290°C)	Black
<b>PEEK</b>	High performance engineered thermoplastic. Excellent choice for high pressure and high temperatures service. Offers excellent abrasion and corrosion resistance and unaffected by continuous exposure to hot water or steam.	-70°F (-57°C) To 600°F (316°C)	Tan



PTFE



RTFE



Starfill-A

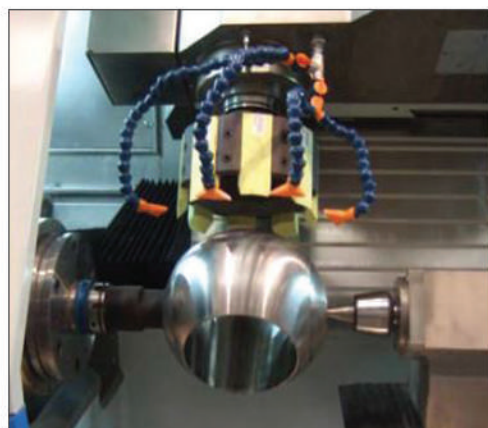


PEEK

# Precision manufacturing of StarVal® ball valves

## Surface Verification

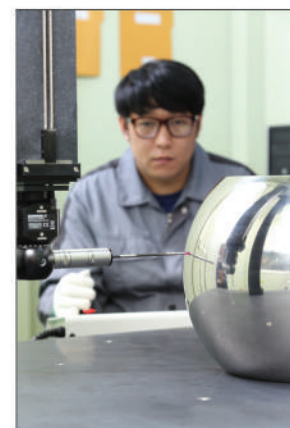
StarVal® uses state-of-the-art procedures to verify the surface finish of the machined faces in order to ensure perfect ball roundness.



Surface grinding

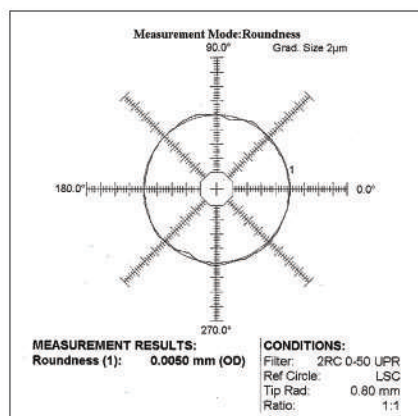


Dimensional check by 6-axis CMM system

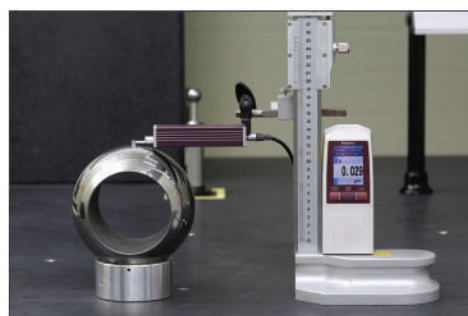


Ball roundness check by CMM system

Any parts that are out of compliance according to the digital monitoring system are rejected.



Display of ball roundness result



Surface roughness check



Screen display

## Clean rooms

StarVal® has supplied valves for many applications calling for special cleaning procedures. Such applications include poly-silicon and semi-conductor production, food and drug industry applications, and chlorine and oxygen services. In such cases valves are required to be assembled in our clean room. Authorized personnel wearing lint free clothing and gloves inspect the parts. After assembly and testing with clean, dry air, the valves are tested for external leakage using a detector. If valves are proven adequate, they are specially tagged and heat-sealed in polyethylene bags. We are also capable of vacuum sealing with polyethylene bags if required.



Air shower booth

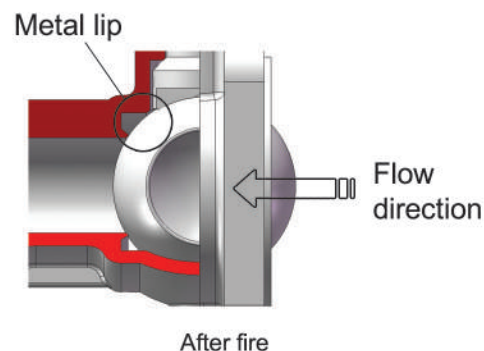


Testing at the clean room

## Fire-safe Design

The B6 fire-safe design incorporates a precisely machined spherical fit between the ball surface and the metal lip of the body in order to control through-line leakage in the event of a fire. This model uses Graphite stem sealing components that will withstand the extreme temperatures caused by an industrial fire.

The B6 fire-safe valves are tested in-house to the specifications of API 607. Test results fully comply with the limits of these specifications.



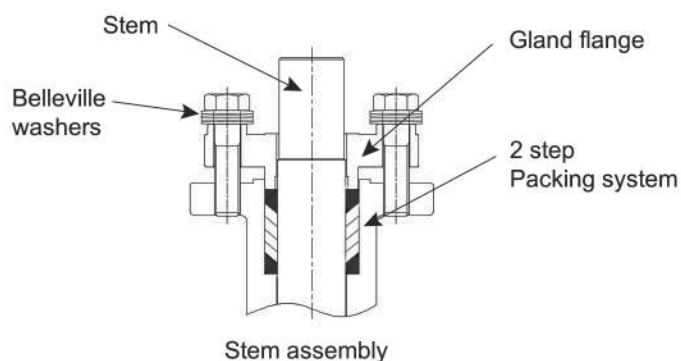
View of Fire safe testing

Certificate of Fire safe testing by Lloyd's

## B6E valves with fugitive emission bonnet

B6E valves have an extended bonnet which allows them to incorporate special VOC fugitive emission packing. The stem sealing system incorporates 2 types of packing: braided carbon packing, and cup and cone die-formed rings. The chemically inert material set expands radially when the gland is tightened for a positive valve stem OD seal as well as stuffing box ID seal. The packing is backed up by Belleville washers. This design allows these B6E valves to meet the fugitive emissions requirements of TA Luft and EPA Method 21. As a result, these valves have been successfully used on hazardous applications such as hydrocarbons, chlorine, corrosive acids and other reactive chemicals.

As well, B6E valves are ideal for applications where valves must be insulated as the high neck of the valve allows the actuator or manual operator to be clear of the insulation. The B6E valves are available in flanged sizes 1/2" (15 mm) to 4" (100 mm). Each valve incorporates an ISO 5211 mounting pad which allows convenient interchangeability of the actuation.



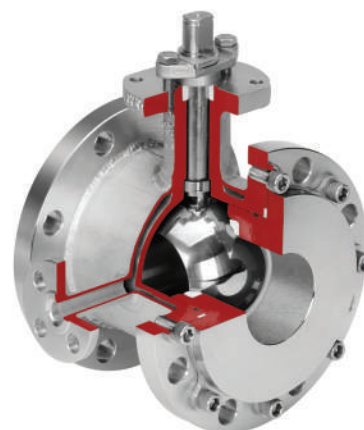
## B6J Fully Jacketed valves

B6J valves are essential when process temperatures must be maintained at consistent level. They are available in port sizes 1/2"(15 mm) to 10"(250 mm). Flanges are oversized in order to allow them to mate to corresponding jacketed piping.

The true stuffing box of these valves can accommodate either PTFE chevron packing or graphite packing.

The B6J valves are equipped with ISO 5211 mounting flanges.

Partially jacketed valves with standard sized flanges are also available.



## B6W Forged Screwed/Socket Weld End

B6W valves are available in NPT screwed and socket weld end in sizes 1/2"(15 mm) to 2"(50 mm).

Other ends are available.



## B6I Valves with ISO 5211 mounting pad

B6I Investment cast valves are available in size 2"(50 mm) and under.

The B6I valve uses an ISO 5211 mounting pad to allow interchangeable actuation.



## B6T Tank Bottom valves

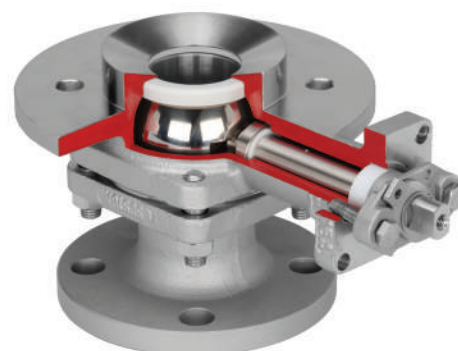
B6T valves are designed with a larger inlet port to suit the drain of a tank.

The valve's full port design minimizes pressure loss and increases the flow capacity in order to reduce energy costs.

The B6T can also be installed in place of reducing spools to downsize piping dimensions.

In order to reduce accumulation of debris on top of the ball, the space between the valve and the upward flange is minimized.

The B6T valves, which are custom designed to suit a customer's specific requirements, are available in sizes 1/2"(15 mm) to 10"(250 mm).



## B21T 3-Way valves

StarVal® 3-way valves are the perfect solution for mixing, safety and relief, diverting, switching bypass and transflow services. A single StarVal® 3-way valve replaces at least (2) 2-way valves, saving significant cost and space, and simplifying piping. B21T valves are available in sizes 1"(15 mm) to 12"(300 mm) and are built to the specifications of ASME Cl. 150 and 300. B21T valves are full bore with RF flanges. They are available with L-port or T-port. Like the B6 they can be produced in a wide variety of materials including high alloys.



Option 90°

### Port arrangement

L-Port	T-Port			
LA-1	TA-1	TA-2	TA-3	TA-4

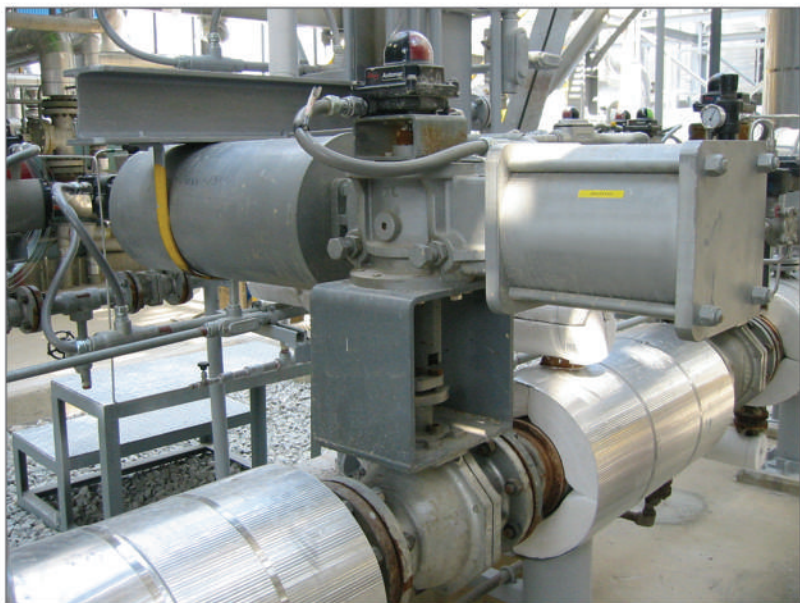
Option 180°

L-Port	T-Port			
LB-1	TB-1	TB-2	TB-3	TB-4

※ Other port arrangements are available upon request

Automated Systems

StarVal® is able to supply complete on-off or modulating valve packages to meet specific customer requirements. StarVal® ball valves offer consistent low torques which allows them to be easily packaged with different types of actuators including rack and pinion, Scotch yoke, and electric. In addition we are able to equip our automated packages with a comprehensive line of accessories such as solenoid valves, limit switches and positioners.



B6V Control Valves

StarVal® offers the B6V with V-port ball for equal percentage modulating control services. Our valves can be equipped with positioners ranging from simple analog to sophisticated SMART digital positioners in order to meet specific customer requirements.

We can offer our valves with V-port balls in sizes 1/2"(15 mm) to 6"(150 mm). Each line size has 4 different V-port openings in order to allow you to choose the best control range for your application. Please refer to our technical manual for detailed Cv information.

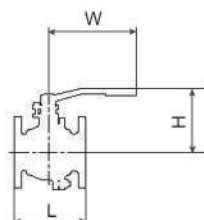


Cl. 150-2" Control valve with Smart positioner

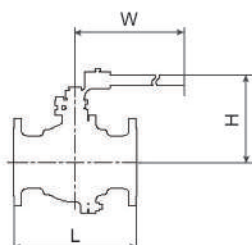
Cv table

Size	100% Opening			
	V1=10°	V2=30°	V3=60°	V4=90°
1/2 (15)	2.9	5.7	10.1	15.2
3/4 (20)	4.2	8.4	16.8	27.6
1 (25)	5.8	12.3	26.9	40.6
1-1/2 (40)	12.7	28.6	55.7	96.9
2 (50)	21.5	47.4	92.0	173.4
2-1/2 (65)	35.1	79.2	150.5	253.0
3 (80)	47.0	105.5	190.2	388.9
4 (100)	58.9	160.9	332.1	652.1
6 (150)	148.0	367.0	816.0	1292.0
8 (200)	236.8	592.1	1298.9	2392.3
10 (250)	370.1	925.2	2029.5	3785.4
12 (300)	518.1	1295.3	2841.3	5233.1

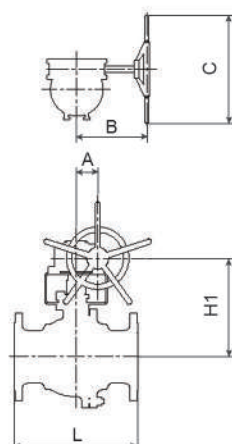
## Outline Dimensions



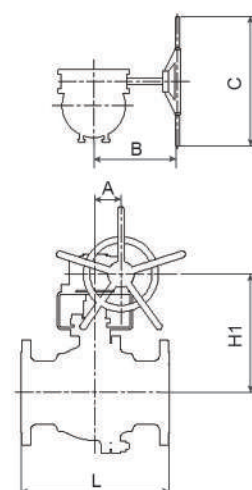
Size 1/2" (15mm) to 5" (125mm)



Size 6" (150mm) to 8" (200mm)



Size 6" (150mm) to 8" (200mm)  
Gear Operated (Option)

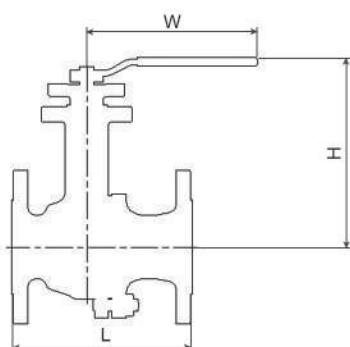
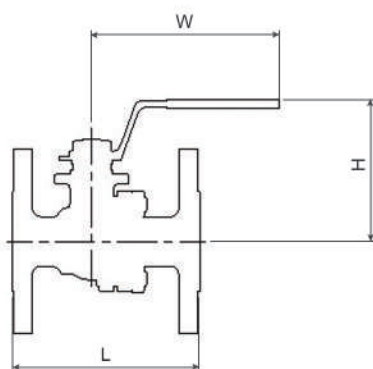


Size 10" (250mm) to 12" (300mm)

### B6 Standard & B6V V-Port Ball valve

Inch(mm)

Valve Size	L		H	H1	W	A	B	C	Weight, lbs(kg)	
	Class 150	Class 300							Class 150	Class 300
1/2 (15)	4.25(108)	5.51(140)	2.80(71)	-	5.12(130)	-	-	-	5.1(2.3)	5.5(2.5)
3/4 (20)	4.61(117)	5.98(152)	2.87(73)	-	5.12(130)	-	-	-	5.5(2.5)	7.9(3.6)
1 (25)	5.00(127)	6.50(165)	3.15(80)	-	6.30(160)	-	-	-	7.9(3.6)	13.0(5.9)
1-1/4 (32)	5.51(140)	7.01(178)	3.23(82)	-	6.30(160)	-	-	-	11.9(5.4)	17.0(7.7)
1-1/2 (40)	6.50(165)	7.48(190)	4.61(117)	-	9.06(230)	-	-	-	15.0(6.8)	21.0(9.5)
2 (50)	7.01(178)	8.50(216)	4.88(124)	-	9.06(230)	-	-	-	23(10)	33(15)
2-1/2 (65)	7.48(190)	9.49(241)	6.54(166)	-	15.75(400)	-	-	-	35(16)	55(25)
3 (80)	7.99(203)	11.10(282)	6.93(176)	-	15.75(400)	-	-	-	44(20)	66(30)
4 (100)	9.02(229)	12.01(305)	8.11(206)	-	18.11(460)	-	-	-	84(38)	104(47)
5 (125)	14.02(356)	15.00(381)	8.78(223)	-	18.11(460)	-	-	-	112(50)	132(60)
6 (150)	15.51(394)	15.87(403)	11.46(291)	16.61(422)	39.37(1000)	0.39(10)	8.50(216)	8.27(210)	137(62)	181(82)
8 (200)	17.99(457)	19.76(502)	14.06(357)	20.35(517)	59.06(1500)	0.39(10)	8.50(216)	8.27(210)	289(131)	331(150)
10 (250)	20.98(533)	22.36(568)	-	22.64(575)	-	0.59(15)	13.98(355)	12.20(310)	595(270)	684(310)
12 (300)	24.02(610)	25.51(648)	-	25.00(635)	-	0.59(15)	13.98(355)	12.20(310)	1036(470)	1190(540)



### B6I Investment Casting

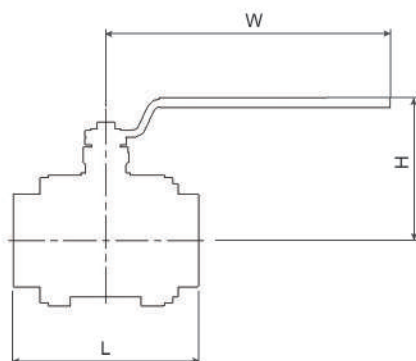
Inch(mm)

Valve Size	L	H	W	Weight, lbs(kg)
	Class 150			
1/2 (15)	4.25(108)	3.31(84)	5.32(135)	3.5(1.6)
3/4 (20)	4.625(117)	3.43(87)	5.32(135)	4.3(2)
1 (25)	5(127)	3.78(96)	6.7(170)	6(2.8)
1-1/2 (40)	6.5(165)	4.33(110)	7.88(200)	12.4(5.7)
2 (50)	7(178)	4.33(110)	7.88(200)	17.8(8.1)

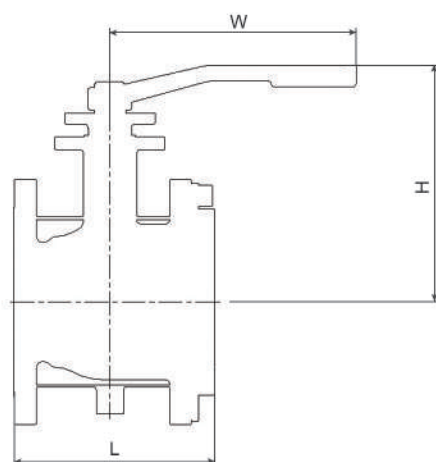
### B6E Extended Bonnet

Inch(mm)

Valve Size	L		H	W	Weight, lbs(kg)	
	Class 150	Class 300			Class 150	Class 300
1/2 (15)	4.25(108)	5.51(140)	6.38(162)	5.12(130)	5.5(2.5)	6.2(2.8)
3/4 (20)	4.61(117)	5.98(152)	6.46(164)	5.12(130)	6.2(2.8)	8.8(4.0)
1 (25A)	5.00(127)	6.50(165)	6.97(177)	6.30(160)	8.8(4.0)	14.3(6.5)
1-1/2(40)	6.50(165)	7.48(190)	8.15(207)	9.06(230)	16.5(7.5)	22(10)
2 (50)	7.01(178)	8.50(216)	8.43(214)	9.06(230)	24(11)	37(17)
2-1/2(65)	7.48(190)	9.49(241)	9.06(230)	15.75(400)	40(18)	62(28)
3 (80)	7.99(203)	11.10(282)	9.45(240)	15.75(400)	48(22)	73(33)
4 (100)	9.02(229)	12.01(305)	10.51(267)	18.11(460)	93(42)	115(52)

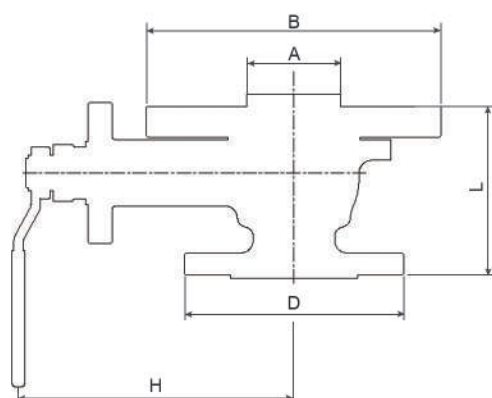
**B6W Forged Screwed/Socket weld end / ASME Class 800** Inch(mm)

Valve Size	L		H	W	Weight, lbs(kg)	
	Screwed	Socket Weld			Screwed	Socket Weld
1/2 (15)	3.35(85)	5.94(151)	2.17(55)	4.72(120)	3.7(1.7)	2.6(1.2)
3/4 (20)	4.13(105)	6.18(157)	2.87(73)	6.30(160)	5.5(2.5)	4.4(2)
1 (25)	4.61(117)	6.69(170)	3.50(89)	7.17(182)	11.2(5.1)	9.5(4.3)
1-1/2 (40)	5.59(142)	7.48(190)	3.90(99)	7.17(182)	19.2(8.7)	17.2(7.8)
2 (50)	6.30(160)	8.07(205)	5.12(130)	11.02(280)	26.9(12.2)	25.6(11.6)

**B6J Fully Jacketed**

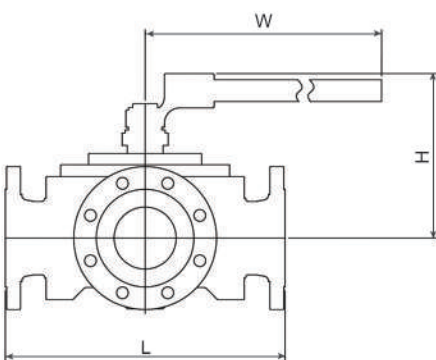
Inch(mm)

Valve Size	L		H	W	Weight, lbs(kg)	
	Class 150	Class 300			Class 150	Class 300
1/2 x 1-1/2 (15 x 40)	4.25(108)	5.51(140)	5.39(137)	6.61(168)	12(5)	15(7)
3/4 x 1-1/2 (20 x 40)	4.61(117)	5.98(152)	5.51(140)	6.61(168)	18(8)	22(10)
1 x 2 (25 x 50)	5.00(127)	6.50(165)	6.10(155)	6.61(168)	25(12)	31(14)
1-1/2 x 2-1/2 (40 x 65)	6.50(165)	7.48(190)	7.60(193)	9.06(230)	35(16)	44(20)
2 x 3 (50 x 80)	7.01(178)	8.50(216)	7.87(200)	9.06(230)	51(23)	63(28)
2-1/2 x 4 (65 x 100)	7.48(190)	9.49(241)	9.02(229)	15.75(400)	79(36)	97(44)
3 x 5 (80 x 125)	7.99(203)	11.10(282)	9.45(240)	15.75(400)	95(43)	117(53)
4 x 6 (100 x 150)	9.02(229)	12.01(305)	10.63(270)	18.11(460)	146(66)	170(77)
6 x 10 (150 x 250)	15.51(394)	15.87(403)	15.24(387)	39.37(1000)	348(158)	507(230)

**B6T Tank Bottom ASME Cl. 150**

Inch(mm)

Valve Size	L	H	D	A	B	Weight, lbs(kg)
1/2 (15)	4.06(103)	5.31(135)	3.54(90)	1.42(36)	5.12(130)	9(4)
3/4 (20)	4.33(110)	5.51(140)	3.94(100)	1.81(46)	5.12(130)	15(7)
1 (25)	4.33(110)	7.01(178)	4.33(110)	2.20(56)	5.20(132)	18(8)
1-1/2(40)	4.53(115)	7.87(200)	4.92(125)	3.54(90)	7.01(178)	22(10)
2 (50)	4.92(125)	8.43(214)	5.91(150)	3.94(100)	7.68(195)	26(12)
2-1/2(65)	6.22(158)	9.06(230)	7.09(180)	4.33(110)	7.87(200)	37(17)
3 (80)	6.38(162)	9.53(242)	7.48(190)	5.31(135)	8.07(205)	49(22)
4 (100)	7.87(200)	10.51(267)	9.06(230)	9.21(234)	9.25(235)	73(33)
6 (150)	11.77(299)	12.05(306)	11.02(280)	9.21(234)	15.75(400)	185(84)
8 (200)	13.11(333)	15.57(370)	13.58(345)	9.84(250)	20.28(515)	419(190)

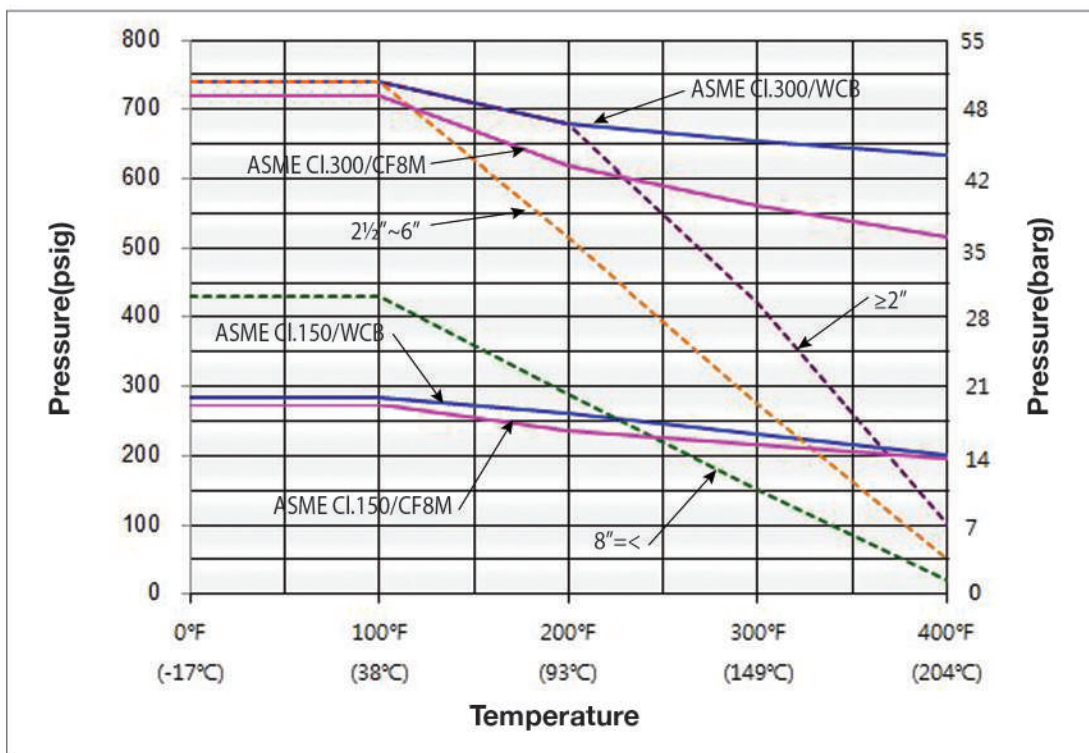
**B21T 3-way**

Inch(mm)

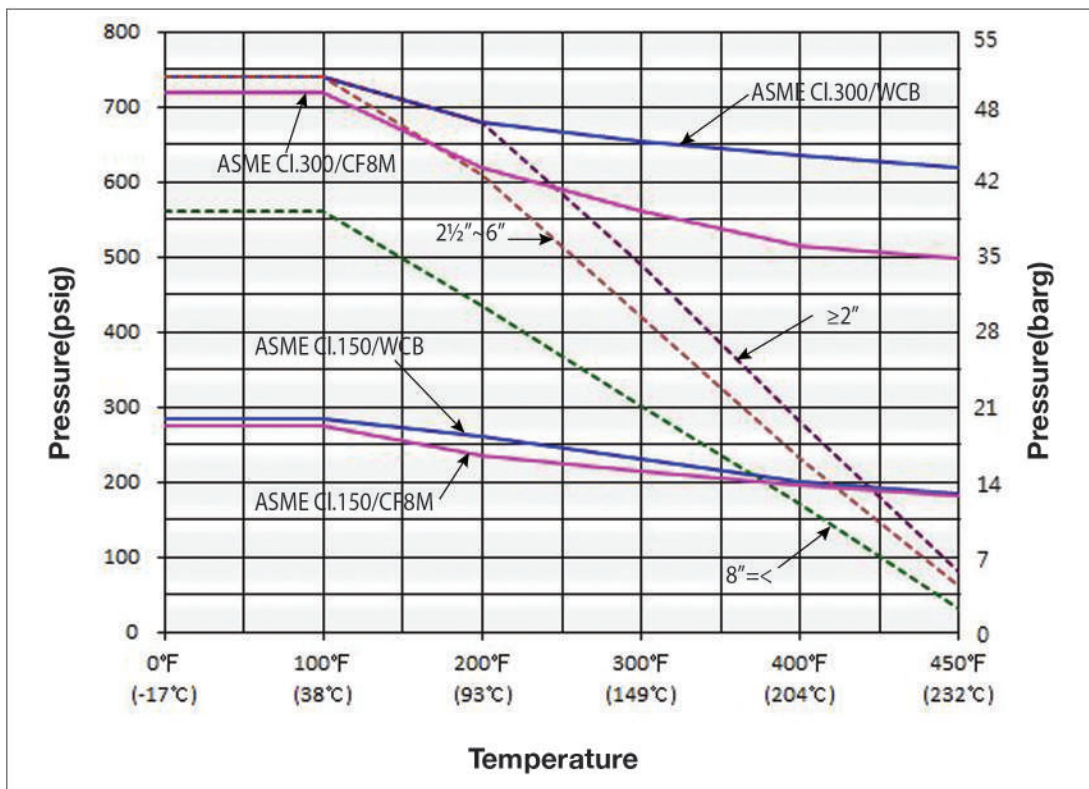
Valve Size	L		H	W	Weight, lbs(kg)	
	Class 150	Class 300			Class 150	Class 300
1/2 (15)	7.87(200)	8.90(226)	5.12(130)	7.87(200)	24(11)	26(12)
3/4 (20)	8.07(205)	9.02(229)	5.35(136)	7.87(200)	26(12)	31(14)
1 (25)	8.27(210)	10.16(258)	5.67(144)	9.37(238)	31(14)	37(17)
1-1/2(40)	9.84(250)	10.71(272)	6.97(177)	15.75(400)	57(26)	71(32)
2 (50)	11.81(300)	12.99(330)	7.13(181)	15.75(400)	62(28)	77(35)
2-1/2(65)	13.39(340)	15.75(400)	7.32(186)	18.11(460)	88(40)	126(57)
3 (80)	14.57(370)	17.32(440)	7.68(195)	18.11(460)	117(53)	172(78)
4 (100)	17.72(450)	19.69(500)	10.04(255)	39.37(1000)	212(96)	278(126)
6 (150)	21.26(540)	23.23(590)	13.86(352)	59.06(1500)	344(156)	463(210)
8 (200)	26.77(680)	27.95(710)	23.62(600)	-	683(310)	816(370)
10 (250)	31.10(790)	32.68(830)	27.95(710)	-	1213(550)	1378(625)

# Pressure-Temperature Rating

## RTFE Seat



## Starfill-A Seat



Note : Curves for other seat options are available upon request

## How to specify

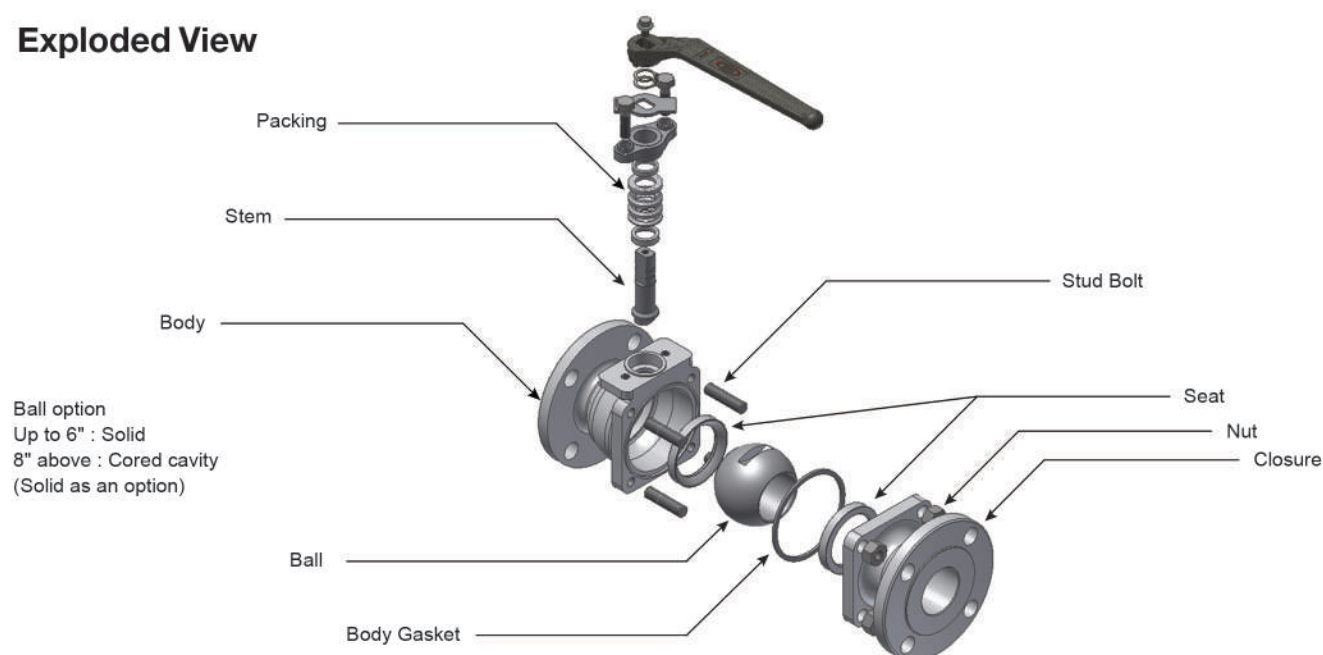
Size	Symbol	Bore Design	Pressure Class	End Connection	Material *			Operator	Option
					Body	Ball	Seat		
Specify your size	B6	F=Full Bore	A=Cl.150	R= RF	A1= WCB	A4= CF8	1A= RTFE	0= Bare	Z= Fire Safe
	B6E	R=Red. Bore	B=Cl.300	F= FF	A2= LCB	A5= CF3	1B= PTFE	Stem	V= Vacuum
	B6W	V1=10°	D=Cl.800	W= Butt Weld	A4= CF8	A6= CF8M	1C= Starfill-A	1= Wrench	Service
	B6J	V2=30°	(B6W only)	S = Socket Weld	A5= CF3	A7= CF3M	1D= Starfill-B	2= Gear	N= NACE
	B6V	V3=60°		E= Screwed End	A6= CF8M	A8= CD4MCuN	1E= Starfill-C	3= Actuator	MR0103
	B6T	V4=90°			A7= CF3M	C1 = CN7M	1G = Starfill-D		Etc...
	B6I	L port 1)			A8= CD4MCuN	C2 = CW-6M	1H = Starfill-E		
	B21T	T port 1)			C1 = CN7M	S4 = F304	1R = PEEK		
					C2 = CW-6M	S6 = F316	Etc...		
					S1 = A105	Etc...			
					S4 = F304				
					S6 = F316				
					Etc...				

Example : 2B6FARA1A61A1 : 2" B6 Series Ball Valve, Full bore, ASME(ANSI) Class 150, RF Flanged End, WCB Body, CF8M Ball, RTFE Seat, Wrench Operator

<sup>1)</sup>See Page 8. Port arrangement

\* Other materials available on request

## Exploded View



## Bill of Material

Parts	Material	Standard material construction									
Body / Closure	WCB	CF8					CF3		CF8M		CF3M
Body Gasket	PTFE *1										
Ball	CF8	CF8M	CF8	CF3	CF8M	CF3M	CF3	CF3M	CF8M	CF3M	CF3M
Stem	304	316	304	304L	316	316L	304L	316L	316	316L	316L
Seat	RTFE *2										
Packing	PTFE *1										
Stud Bolt	B7	B8									
Nut	2H	8									

\*1 Fire safe : Graphite

\*2 Option : Starfill-A®, Starfill-B®, Starfill-C®, Starfill-D®, Starfill-E®, PEEK

\*Other materials available on request

## Applications

StarVal® valves are produced in a wide range of materials to handle a great variety of industrial applications including caustics, gases, corrosive acids, hydrocarbons, chlorine and many others.

## PTA

StarVal® valves have been produced in the high alloys, including Titanium, Hastelloy C, and 904L SS, which are required of this application.

## Chlorine

StarVal® valves can be built per the specifications of the Chlorine Institute Pamphlet 6 "Piping and equipment for use with Dry Chlorine. StarVal® valves can be built in any of the combinations of materials as specified by the Chlorine Institute. Valves to be used on chlorine service will be tightly sealed in polyethylene bags with desiccant.

## Monomers

Monomer chemicals, such as butadiene, Latex, and styrene, can cause "popcorning" of PTFE or RTFE. In such cases we can use StarVal® valves with seats in Starfill filled fluoropolymers. These Starfill materials are not subject to this "popcorning effect".

## Oxygen service

StarVal® valves are specially cleaned, assembled, and tested to ensure removal of all dirt, grease, machine burrs, etc. before shipment. All such valves are cleaned and assembled in StarVal's modern Clean room according to detailed specifications.

## Acids and other corrosives

StarVal® offers a wide range of corrosion resistant materials including Titanium, Hastelloy alloys, Nickel-based alloys and various grades of stainless steel.

## Steam service

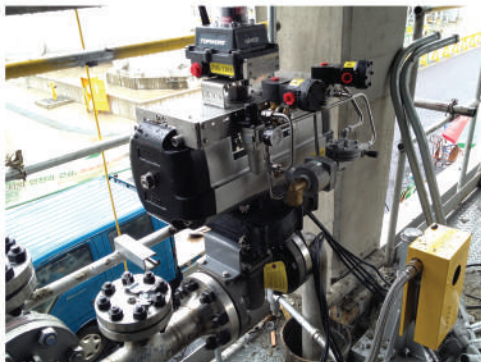
StarVal® offers a wide range of erosion resistant seats that are well equipped to handle high temperature and the abrasive nature of steam.

## High temperature fluids

StarVal® offers a wide range of Starfill seats that are designed to handle temperatures to 550°F(290°C). For temperatures up to 700°F, we offer PEEK material. For higher temperature, we offer B6M Metal seated valves. We can offer valves with stem extensions which allow us to keep the actuator away from any hot process fluids.

## Vacuum service

StarVal® valves can be used on vacuum to 1.5 x10<sup>-2</sup> torr.



# Additional StarVal® products

## Metal seated ball valves

StarVal® metal seated ball valves are offered in sizes ½"(15 mm)-24"(600 mm) and pressures ratings of ASME Cl. 150/300 to suit a wide range of applications including high temperature fluids and abrasive media. They are offered in a wide range of alloys from carbon steel to high alloys. For more information please see bulletin YB-12-D.



## B21 Trunnion mounted ball valves

Trunnion mounted valves are offered to suit heavy duty applications. For such purposes our valves are offered in sizes up to 24"(600mm) and in pressures of ASME Class 150-600.

B21 valves are built to meet specification of API 608.

For further information please refer to bulletin YB-13-D.



## B10 API 608 ball valves

StarVal® B10 valves are designed to meet the full specification of API 608 hence allowing them to be used in refineries, gas plants, and petrochemical plants, etc.

These valves range in sizes from 1/2"(15 mm) to 8"(200 mm) for ASME Cl. 150/300.

For further information please see bulletin YB-16-D.



## C6 Cryogenic valves

StarVal® C6 valves are built in sizes ½"(15 mm) to 8" (200 mm) and pressures ASME Cl. 150/300 to meet the requirements of BS 6364 for cryogenic service. We can offer a variety of metal seats and trim hardening alternatives which allow us to handle a wide range of extreme services. As a result our valves are well suited to handle a variety of liquefied gases including LNG, LPG, nitrogen and oxygen.

For further information please see bulletin YB-14-D.



## E1/E2 API 6D Trunnion mounted ball valves

StarVal® E1/E2 valves meet the requirements of API 6D as required for usage in the heavy duty applications of pipelines and other petroleum related industries.

Our E1/E2 valves range in size from 2"(50 mm) to 42"(1050 mm).

For further information please see bulletin YB-15-D.



## Applicable Standards

StarVal® ball valves are generally in accordance with API, ANSI, JIS and BS requirements.

The following list contains the most important applicable standards for StarVal® ball valves.

StarVal® valves may be designed, manufactured and tested in accordance with other international standards on request.

	Spec. 6D Spec. 6FA Std. 598 Std. 607		B16.5 B16.10 B16.34		B2001 B2002 B2003 B2210		5208 5211
	B5159 B5351 B6755 Part 1		SP 25 SP 44 SP 61 SP 72		MR 0175 MR 0103		S93.00.01

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