



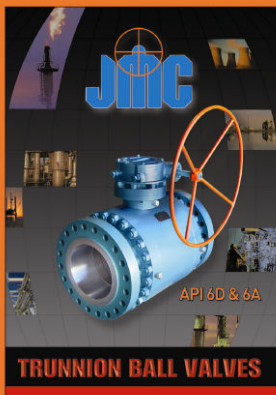
JMC



FLOATING BALL VALVES

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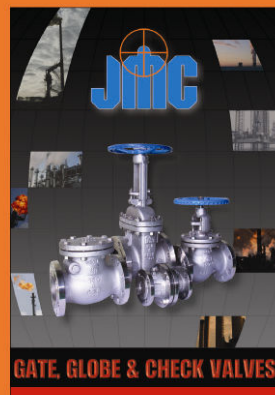
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JMC_TB



JMC_FB



JMC_GGC



JMC_KG

JMC® Floating ball valves are available in sizes 2" through 10" and ASME classes 150-600.

Engineered for rigorous performance, JMC® Floating ball valves are cast construction in both carbon and stainless steel.

Designed for a wide range of services, JMC® ball valves are suitable for many applications including: oil field, oil & gas pipelines, chemical/ petrochemical processing, offshore, power plant, etc.

Strict manufacturing processes are adhered to in order to maintain consistent compliance with API 6D, API 6A, API 6FA, and NACE.

SAMJIN JMC's quality assurance system is in accordance with ISO 9001 and API Spec Q1.

Standards

Valve Design:	API 6D, ASME B16.34, ASME B 31.3, CSA Z245.15
Face to Face Dimensions:	ASME B 16.10
End Flange Dimensions:	ASME B16.5, ASME B16.47 MSS SP 44
Butt Weld Ends:	ASME B 16.25
Materials:	NACE MR0175
Test:	API 6D, API 598
Fire Test:	API 6FA, API 607

Certificates:

API 6D
 API 6A
 ISO 9001
 API 6FA, API 607



Manufacturing plants in Korea



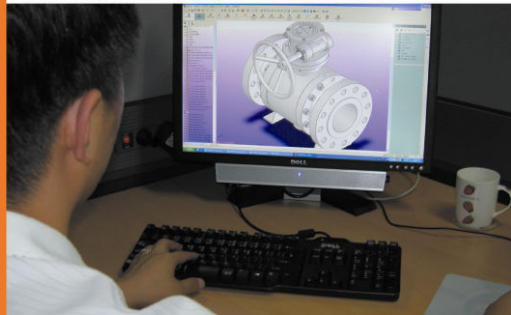
Various machines at manufacturing facilities



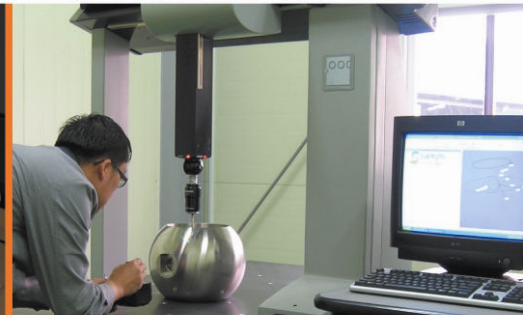
Precisely machining by CNC machines



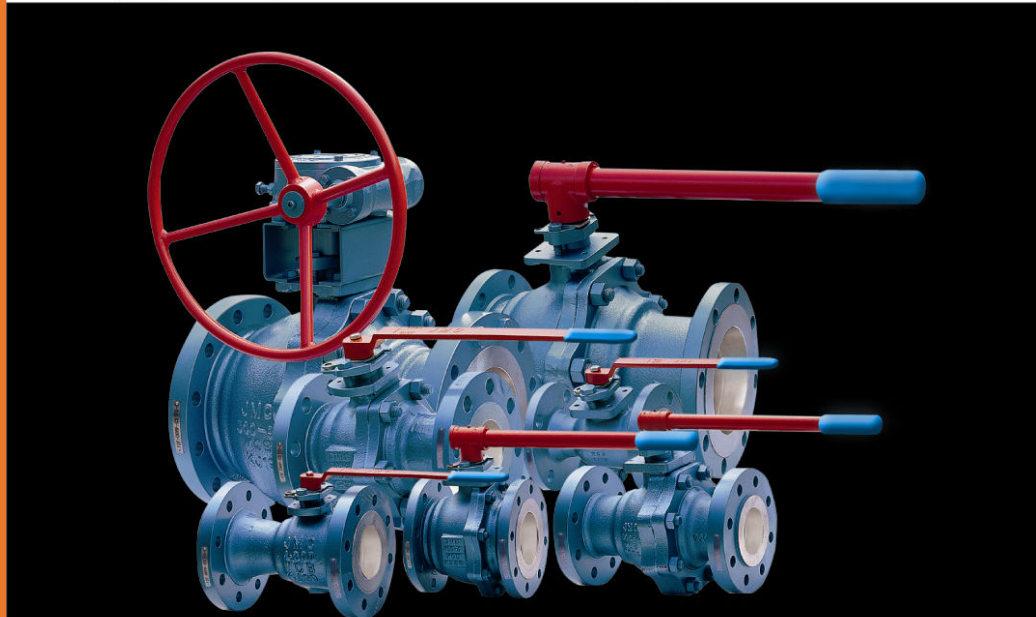
Large inventories for fast shipping



Valve design by 3D modeling



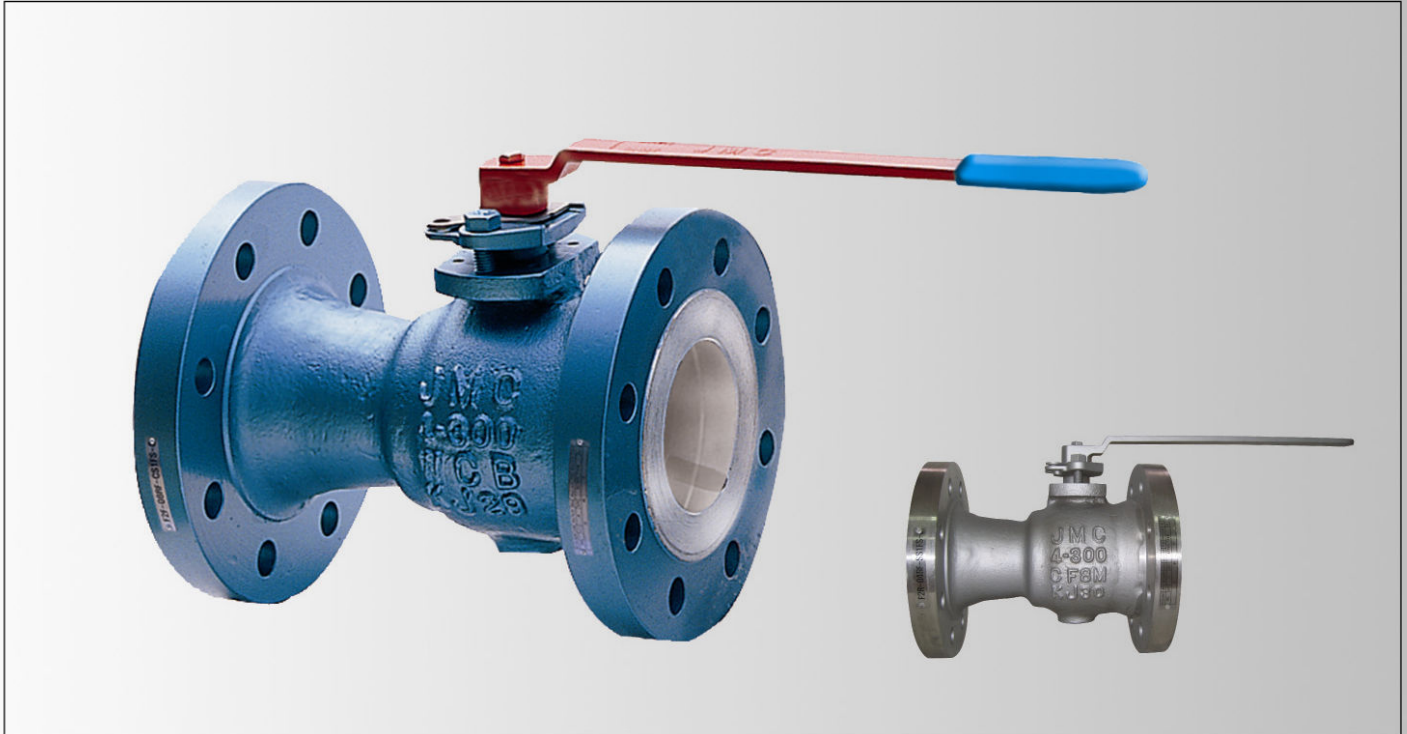
Ball testing by 3D measurement



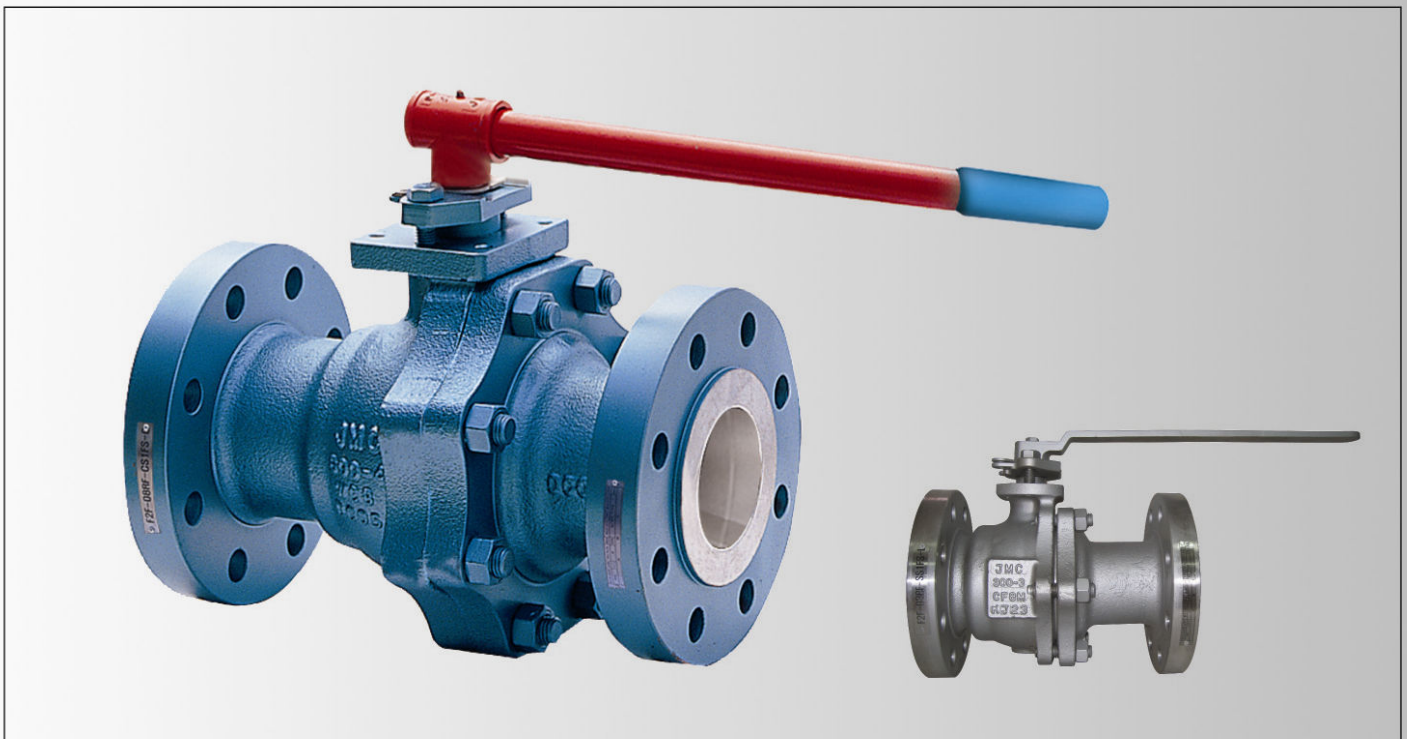
Full range of floating ball valves

FLOATING BALL VALVES

MODEL FB1 & FB2



MODEL FB1



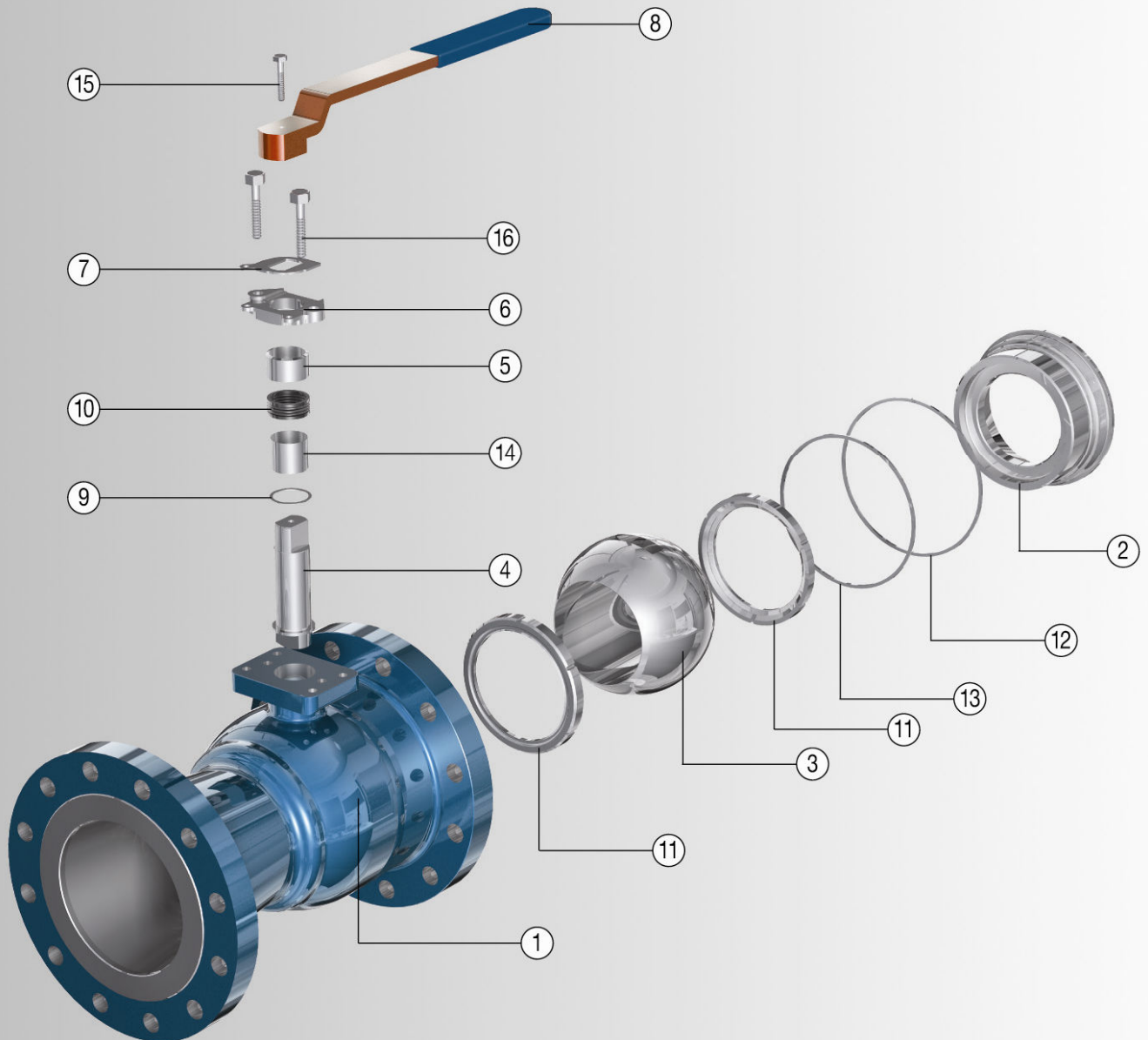
MODEL FB2

PART LIST AND STANDARD MATERIAL SPECIFICATIONS

MODEL FB1

N0	Part Name	Q'ty	Carbon Steel	Stainless Steel
1	Body	1	A216-WCB	A351-CF8M
2	Retainer	1	A216-WCB	A351-CF8M
3	Ball	1	A351-CF8M	A351-CF8M
4	Stem	1	A276-316	A276-316
5	Gland	1	A276-304	A276-304
6	Gland Flange	1	A167-304	A167-304
7	Stopper	1	A167-304	A167-304
8	Handle	1	DUCTILE CAST IRON	

N0	Part Name	Q'ty	Carbon Steel	Stainless Steel
9	Thrust Washer	1	PTFE	PTFE
10	Gland packing	1Set	Graphite+Carbon Fiber	Graphite+Carbon Fiber PTFE
11	Seat	2	Super Teflon	Super Teflon
12	Gasket	1	Graphite	Graphite
13	Gasket	1	PTFE	PTFE
14	Stem Bearing	1Set	RTFE	RTFE
15	Handle Bolt	1Set	A193-B8	A193-B8
16	Gland Bolt	2	A193-B7M	A193-B8M

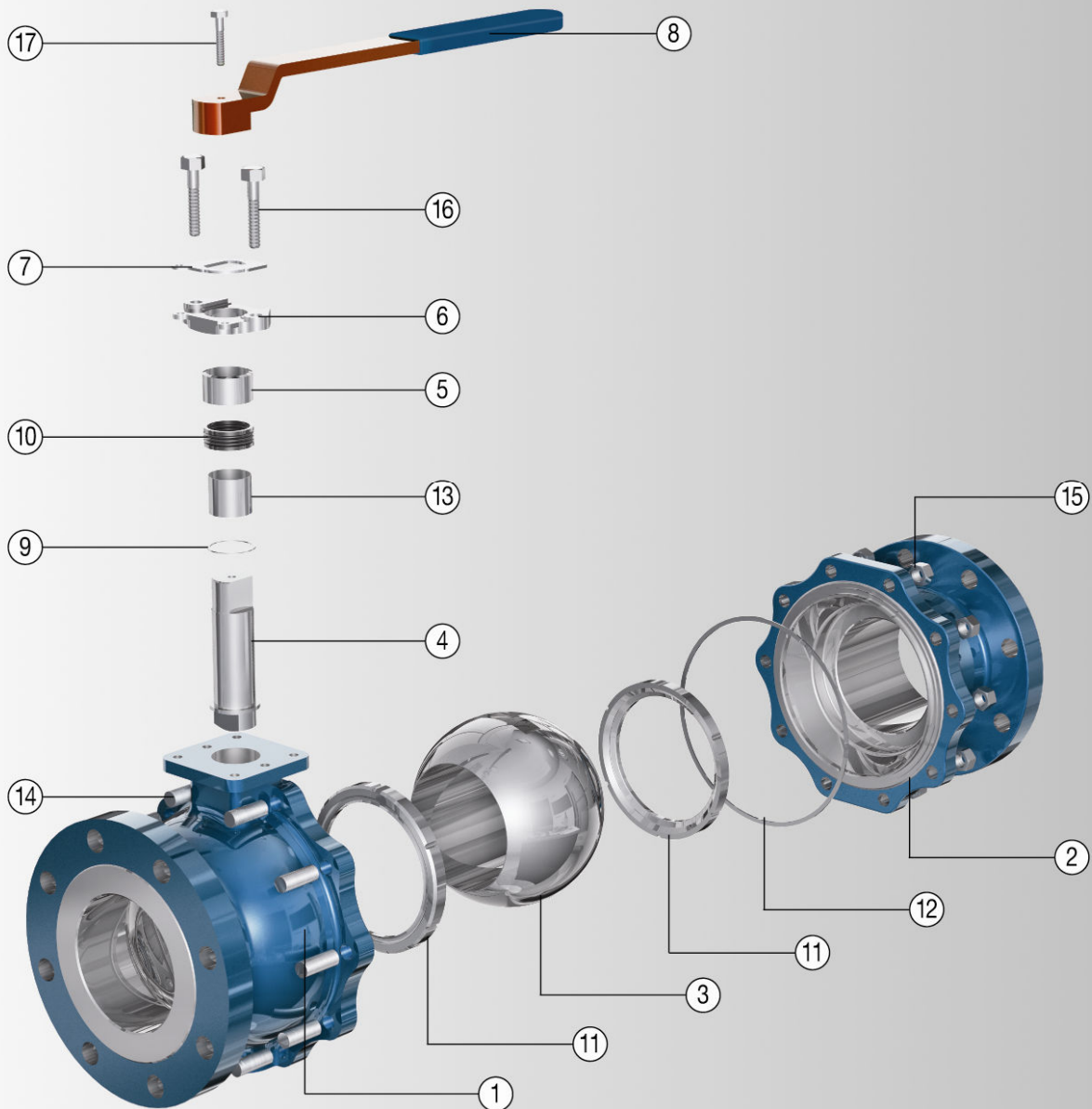


PART LIST AND STANDARD MATERIAL SPECIFICATIONS

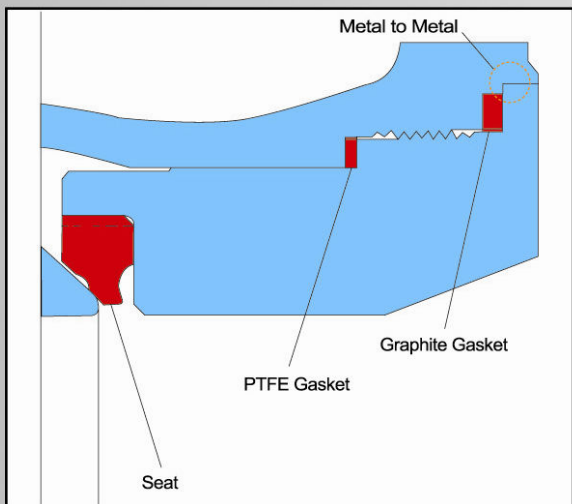
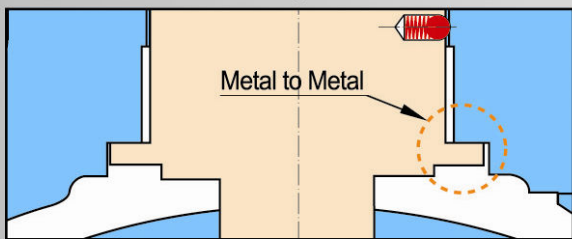
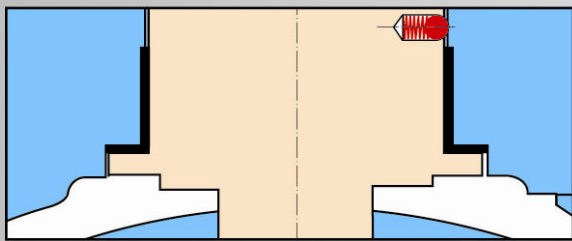
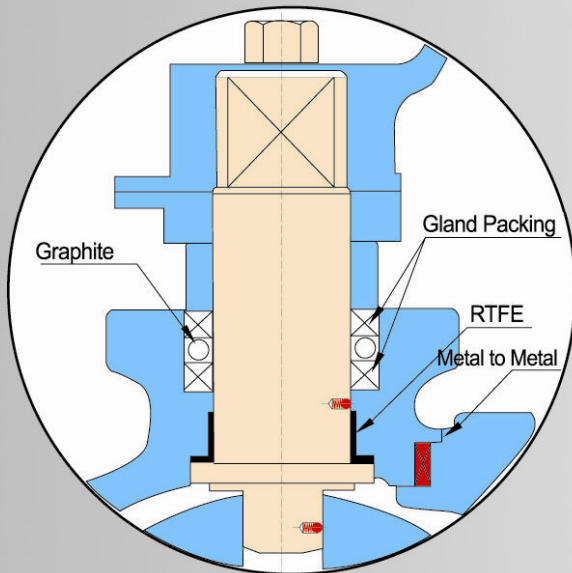
MODEL FB2

NO	Part Name	Q'ty	Carbon Steel	Stainless Steel
1	Body	1	A216-WCB	A351-CF8M
2	Retainer	1	A216-WCB	A351-CF8M
3	Ball	1	A351-CF8M	A351-CF8M
4	Stem	1	A276-316	A276-316
5	Gland	1	A276-304	A276-304
6	Gland Flange	1	A351-CF8	A351-CF8
7	Stopper	1	A167-304	A167-304
8	Handle	1	Ductile Cast Iron	
9	Thrust Washer	1	PTFE	PTFE

NO	Part Name	Q'ty	Carbon Steel	Stainless Steel
10	Gland packing	1Set	Graphite+Carbon Fiber	Graphite+Carbon Fiber PTFE
11	Seat	2	Super Teflon	Super Teflon
12	Gasket	1	316Hoop+Graphite	316Hoop+Graphite
13	Stem Bearing	1	RTFE	RTFE
14	Cap Bolt	1Set	A193-B7M	A193-B8M
15	Cap Bolt Nut	1Set	A194-2HM	A194-8M
16	Gland Bolt	2	A193-B7M	A193-B8M
17	Handle Bolt	1	A193-B8	A193-B8



DESIGN FEATURES



Stem Sealing Design

JMC® Floating ball valves are designed to prevent leakage from the stem area due to a double sealing stem system with two gland packing and graphite. JMC® Class 600 Floating ball valves have O-rings with the double sealing stem design of graphite and carbon fiber seals to provide tight sealing in high pressure and temperature. The packing is externally adjustable so that even with an actuator attached it can be easily tightened.

ISO5211 Actuator Mounting

Machined top mounting pad provides precise mounting of actuator or gear box. Exact alignment allows reducing torque requirements and prevents out-of-line wear. Actuators can be supplied directly from SAMJIN JMC on request.

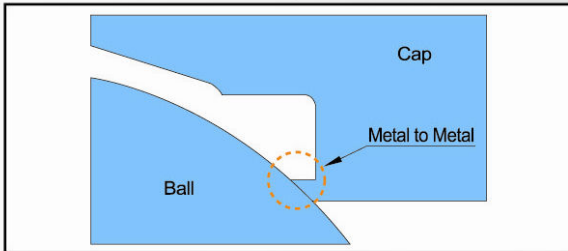
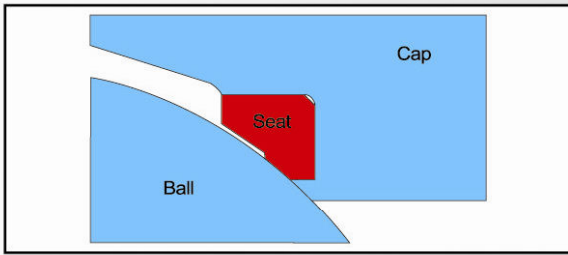
Blowout-Proof Stem and Metal-To-Metal Seal

A stem has a shoulder as an integral part of stem. Due to such a specific structure the stem is not forced out even when abnormal pressure is generated or the bolts become loose. When the stem packing burns out due to a fire, the stem is pressed against the body and prevent leakage to atmosphere.

Double Sealing Design and Metal-To-Metal Seal

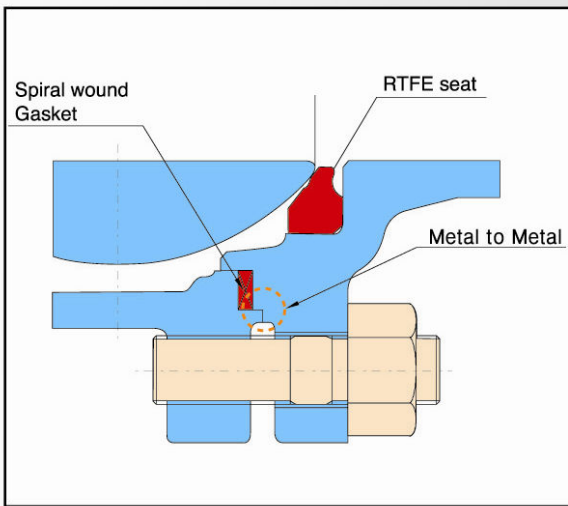
JMC® Floating ball valves are constructed to have a metal contact and double sealing design with PTFE and graphite gasket. The sealing effect can be maintained even when the graphite burns out. The seats have a groove at the profile back for superior sealing, which can provide excellent sealing.

DESIGN FEATURES



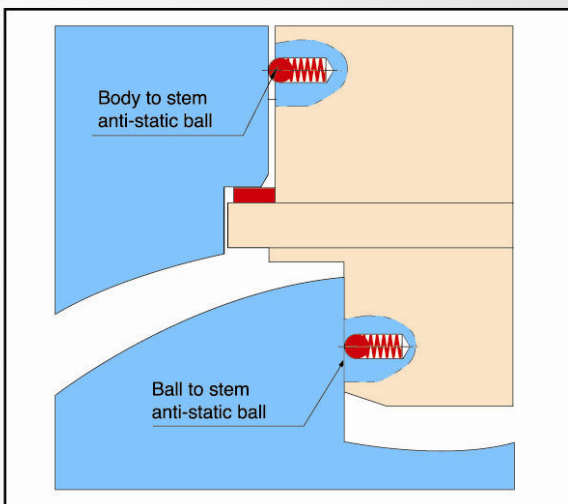
Secondary Metal Seat

In the event the primary soft seal is destroyed in a fire, JMC® Floating ball valves effectively form the secondary metal seat, which prevents leakage and the fire spreading.



Metal-To-Metal Seal

JMC® Floating ball valves are designed to have the dual sealing design with gasket and metal-to-metal contact at the connection of body and body cap, which prevent possible leakage from temperature changes or line stress. The sealing is maintained even when the gasket is destroyed in a fire. JMC® Floating ball valves comply and are certified to API 607/6FA.

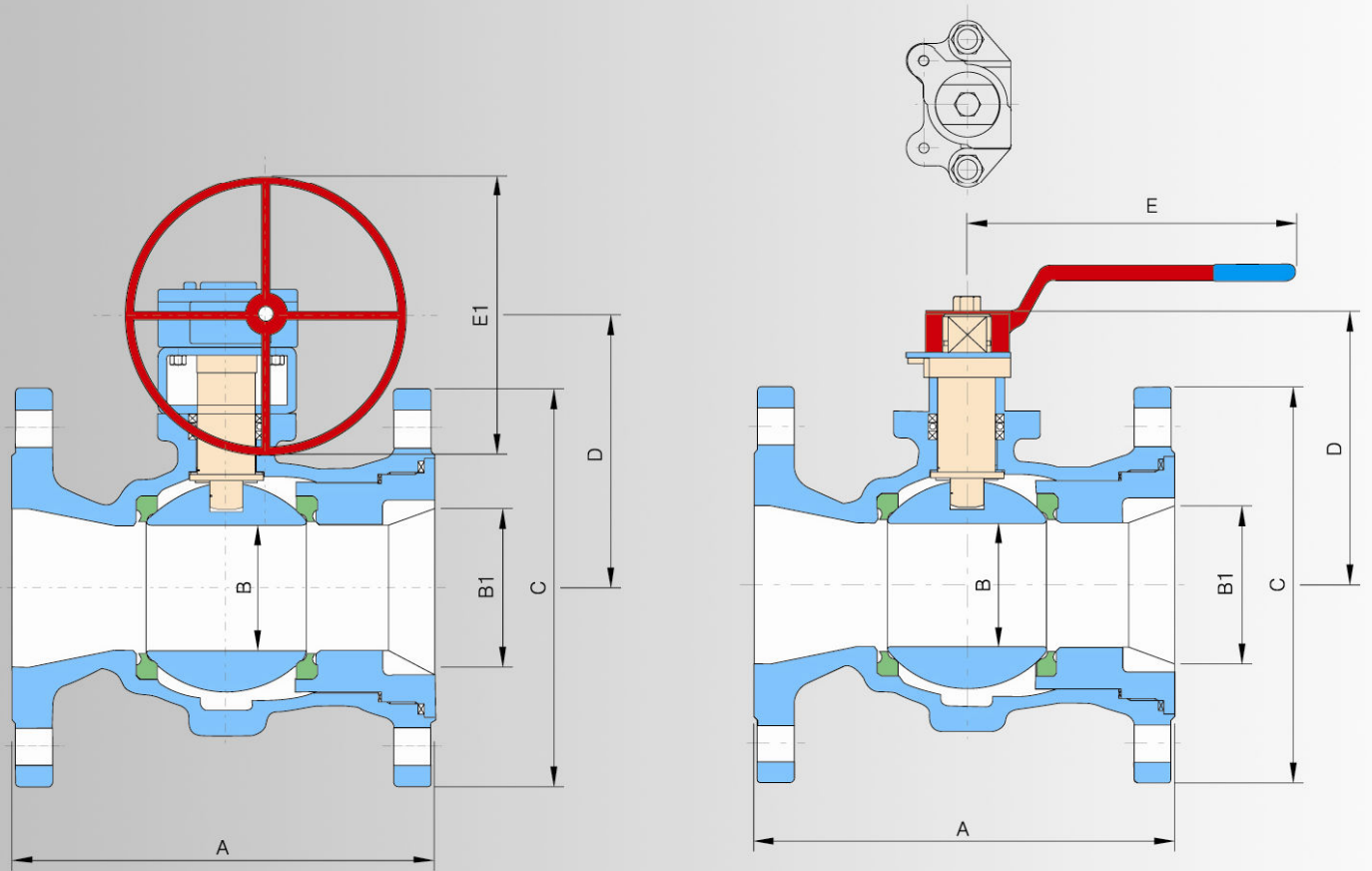


Anti-Static Design

Ball-spring devices are retained to allow the static charges to be led to the piping, which prevents static spark.

FB1 - ASME CLASS 150

DIMENSIONS AND WEIGHTS



(unit : inch)

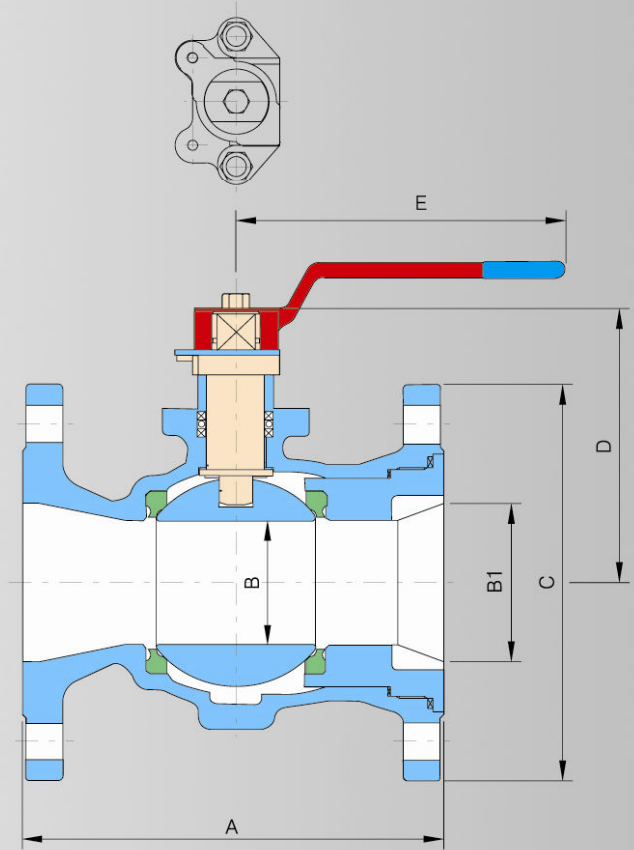
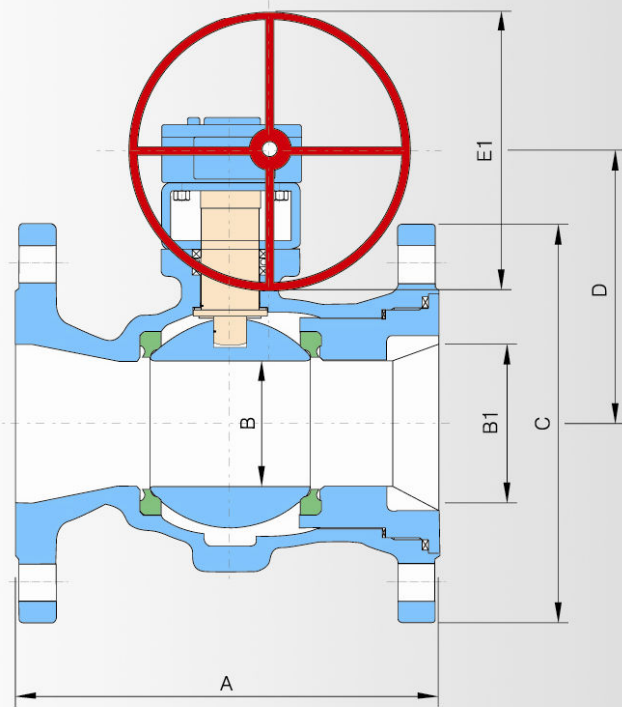
Size	A	B	B1	C	D	E	E1	Weight(lb)	Operation
2	7,008	1,497	2,008	5,985	3,819	9,056	-	22,05	Lever
3	7,993	2,52	2,993	7,481	4,213	9,056	-	33,07	Lever
4	9,016	2,993	4,016	9,016	5,985	15,749	-	52,92	Lever
6	15,512	4,016	5,985	10,985	7,008	25,591	-	101,42	Lever
8	17,993	5,985	7,993	13,504	10,709	41,34	-	158,74	Lever
10	20,985	7,993	10	15,985	13,465	-	16,93	271,17	Gear

(unit : mm)

Size	A	B	B1	C	D	E	E1	Weight(kg)	Operation
50	178	38	51	152	97	230	-	10	Lever
80	203	64	76	190	107	230	-	15	Lever
100	229	76	102	229	152	400	-	24	Lever
150	394	102	152	279	178	650	-	46	Lever
200	457	152	203	343	272	1,050	-	72	Lever
250	533	203	254	406	342	-	430	123	Gear

FB1 - ASME CLASS 300

DIMENSIONS AND WEIGHTS



(unit : inch)

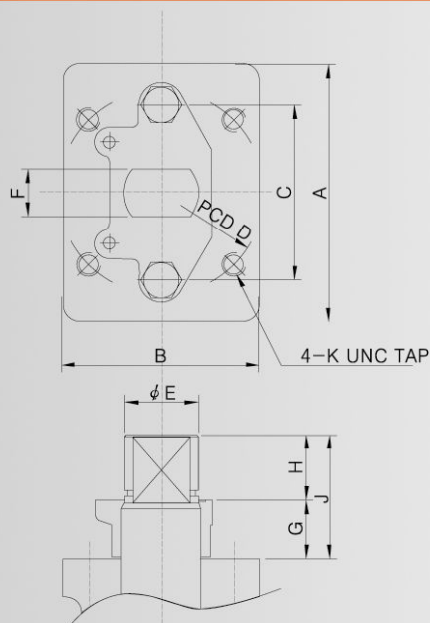
Size	A	B	B1	C	D	E	E1	Weight(lb)	Operation
2	8,504	1,497	2,008	6,497	3,819	9,056	-	24,26	Lever
3	11,142	2,363	2,993	8,268	4,213	9,056	-	55,12	Lever
4	12,008	2,993	4,016	10	5,985	15,749	-	85,99	Lever
6	15,866	4,016	5,985	12,520	7,008	25,591	-	123,46	Lever
8	19,764	5,985	7,993	15	12,678	29,528	-	189,6	Lever
10	22,363	7,993	10	17,481	13,465	-	18,504	383,61	Gear

(unit : mm)

Size	A	B	B1	C	D	E	E1	Weight(kg)	Operation
50	216	38	51	165	97	230	-	11	Lever
80	283	64	76	210	102	230	-	25	Lever
100	305	76	102	254	152	400	-	39	Lever
150	403	102	152	318	178	650	-	56	Lever
200	502	152	203	381	322	1,050	-	86	Lever
250	568	203	254	444	342	-	470	174	Gear

MOUNTING DIMENSIONS AND STANDARD MATERIAL SPECIFICATIONS

MODEL FB1



ISO 5211 Mounting PAD for Actuator Selection

(unit : mm, Nm)

Ansi Class		A	B	C	PCDD	$\varnothing E_{-0.05}^0$	F-0.05	G	H	J	K	ISO 5211 Mounting	
150	300											PAD No.	Torque Max.
2"	2"	65	48	48	50	13,9	7,9	15	11,5	26,5	1/4"	F-05	125
3"	3"	79	73	58	70	19,9	12	20	16	36	5/16"	F-07	250
4"	4"	79	73	78	70	26,9	17	24	25	49	5/16"	F-07	250
6"	6"	104	96	78	102	33,9	22	20	29	49	3/8"	F-10	500
8"	8"	120	120	90	102	44	27	38	34	72	3/8"	F-10	500
10"	10"	135	135	104	140	50,9	32	38	44	82	3/8"	F-14	2000

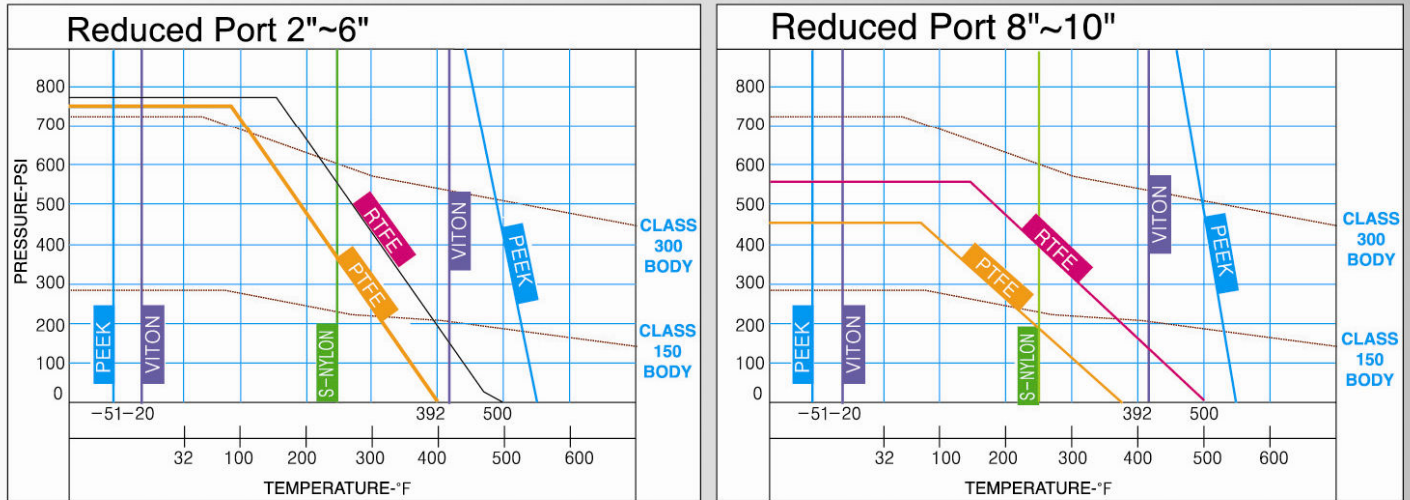
Standard Material Specifications

Part Name	Carbon Steel		Low-Temp, Carbon Steel		Stainless Steel
	Normal	Sour	Normal	Sour	
Body	A216 Gr. WCB		A352 Gr. LCB		A351 Gr. CF8M
Retainer	A216 Gr. WCB		A352 Gr. LCB		A351 Gr. CF8M
Ball	A216 Gr. WCB		A352 Gr. LCB		A351 Gr. CF8M
Stem	A216 Gr. WCB		A352 Gr. LCB		A351 Gr. CF8M
Seat	A216 Gr. WCB		A352 Gr. LCB		A351 Gr. CF8M
Packing	A216 Gr. WCB		A352 Gr. LCB		A351 Gr. CF8M
Gasket	A216 Gr. WCB		A352 Gr. LCB		A351 Gr. CF8M
ISO PAD	A216 Gr. WCB		A352 Gr. LCB		A351 Gr. CF8M
Stopper	A167 Gr. 304		A283 Gr. D		A167 Gr. 304
Bearing	A216 Gr. WCB		A352 Gr. LCB		A351 Gr. CF8M
Blot	A193 Gr. B7	A193 Gr. B7M	A320 Gr. L7	A320 Gr. L7M	A193 Gr. B8M
Lever	A216 Gr. WCB		A352 Gr. LCB		A351 Gr. CF8M
Gear Operator	A216 Gr. WCB		A352 Gr. LCB		A351 Gr. CF8M

ENGINEERING DATA

MODEL FB1

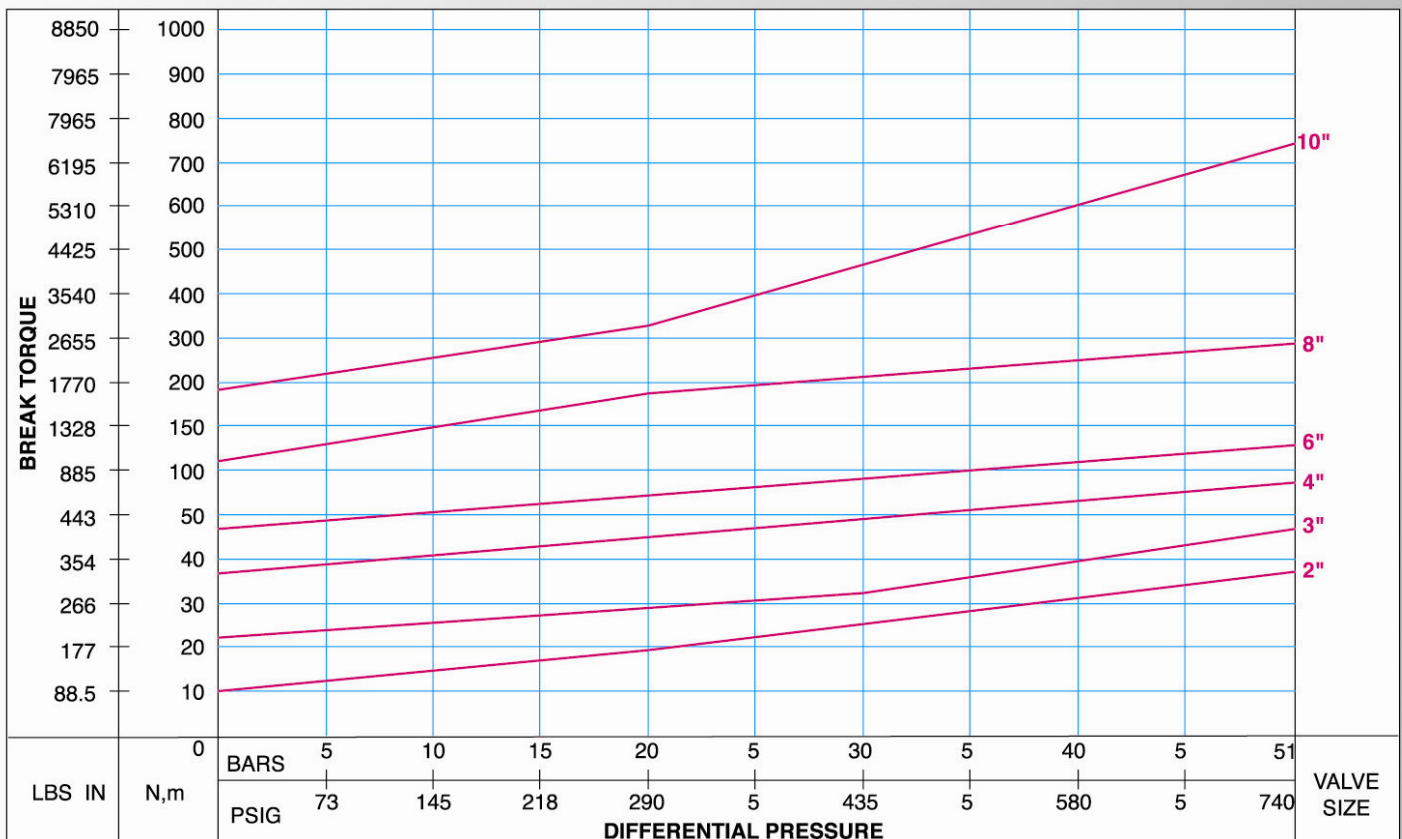
Pressure / Temperature Ratings for Model FB1



The dotted lines indicate Working Pressures for casting stainless steel bodies.(ASTM A351-CF8M)

The operating temperature of the valves is limited by the material of seat and seal.

Torque Data for Model FB1

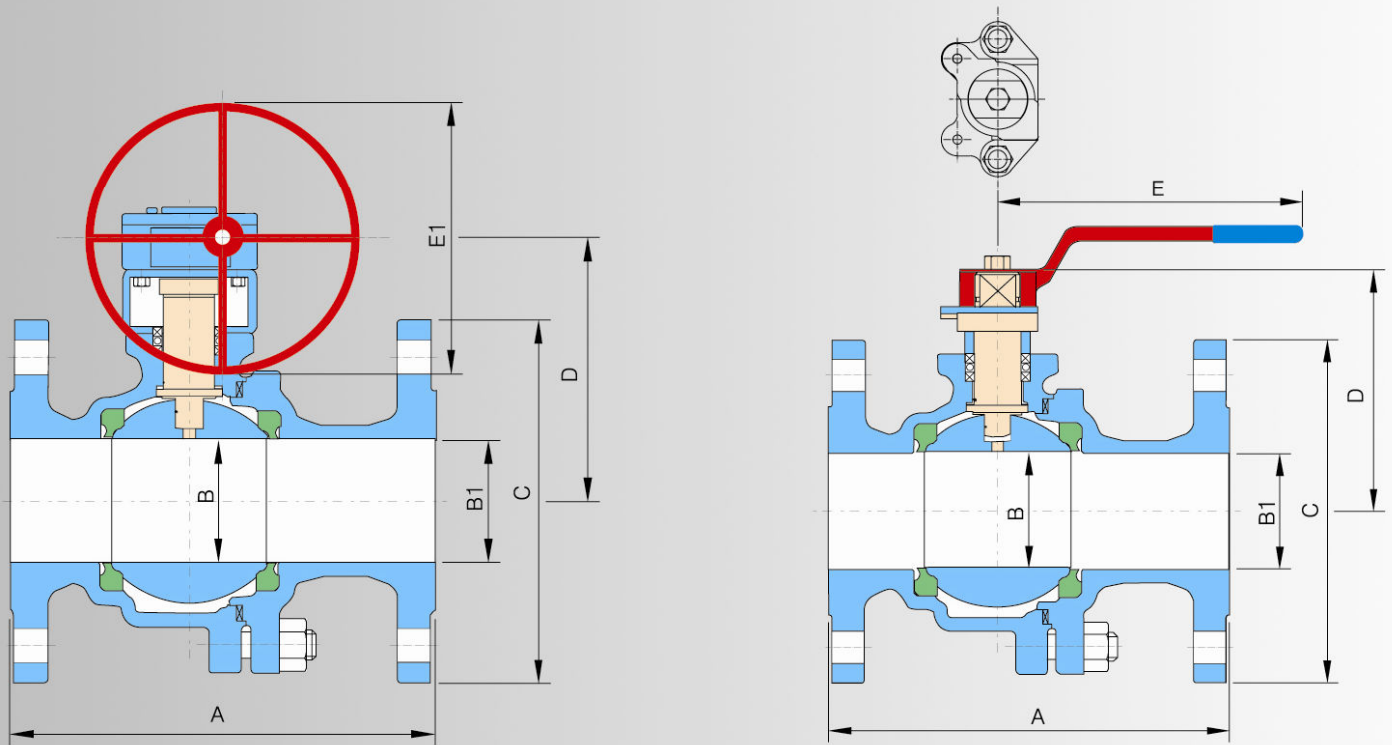


Seat Material : Reinforced PTFE

To select the actuator, adding 25% safety factor to the required should be considered.

FB2 - ASME CLASS 150

DIMENSIONS AND WEIGHTS



(unit : inch)

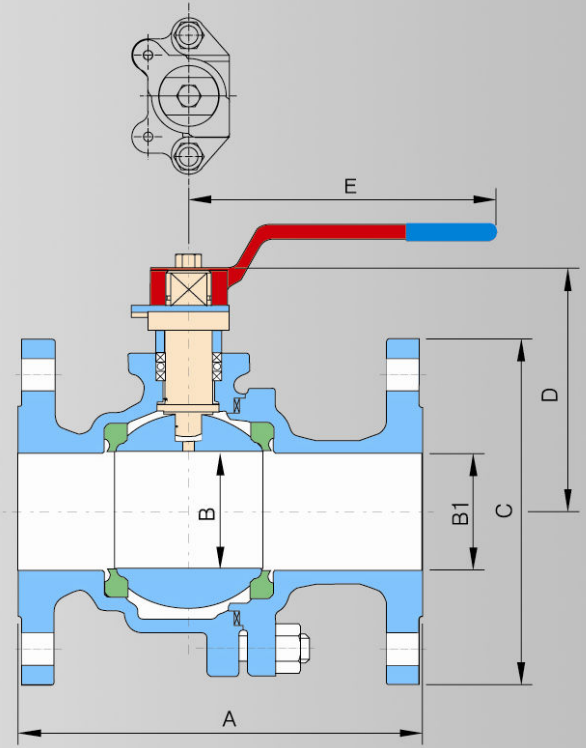
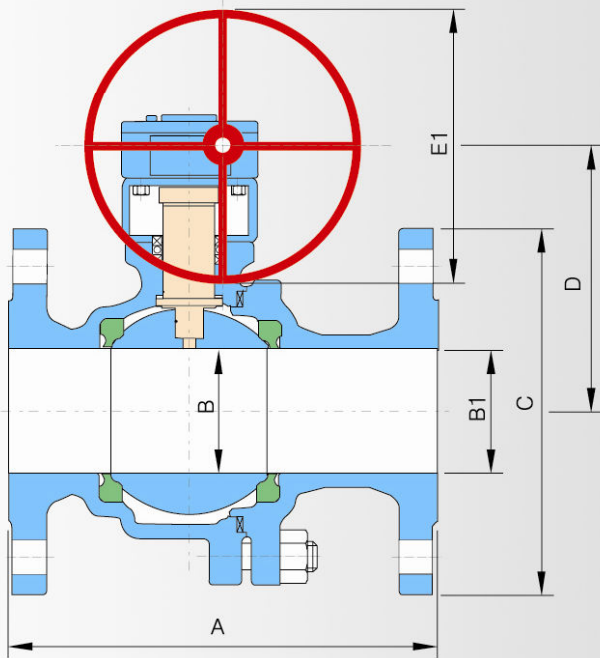
Size	A	B	B1	C	D	E	E1	Weight(lb)	Operation
1	160	0,985	0,985	4,252	2,953	6,3	-	8,82	Lever
1-1/2	230	1,497	1,497	5	3,819	9,056	-	17,64	Lever
2	230	2,008	2,008	5,985	4,213	9,056	-	24,26	Lever
2-1/2	400	2,52	2,52	7,008	5,591	15,749	-	35,28	Lever
3	400	2,993	2,993	7,481	5,985	15,749	-	44,1	Lever
4	650	4,016	4,016	9,016	7,008	25,591	-	79,37	Lever
6	1,050	5,985	5,985	10,985	10,709	41,34	-	185,19	Lever
8	-	7,993	7,993	13,504	13,465	-	16,93	330,7	Gear
10	-	10	10	15,985	15,945	-	18,51	540,14	Gear

(unit : mm)

Size	A	B	B1	C	D	E	E1	Weight(kg)	Operation
25	127	25	25	108	75	160	-	4	Lever
40	165	38	38	127	97	230	-	8	Lever
50	178	51	51	152	107	230	-	11	Lever
65	190	64	64	178	142	400	-	16	Lever
80	203	76	76	190	152	400	-	20	Lever
100	229	102	102	229	178	650	-	36	Lever
150	394	152	152	279	272	1,050	-	84	Lever
200	457	203	203	343	342	-	430	150	Gear
250	533	254	254	406	405	-	470	245	Gear

FB2 - ASME CLASS 300

DIMENSIONS AND WEIGHTS



(unit : inch)

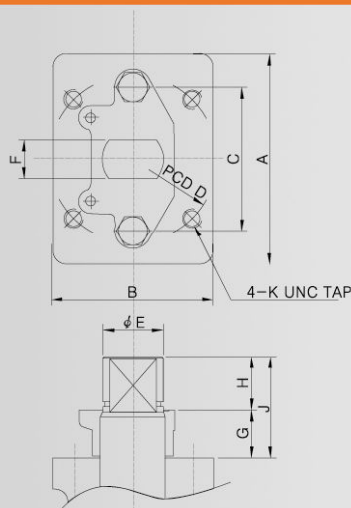
Size	A	B	B1	C	D	E	E1	Weight(lb)	Operation
1	6,497	1,142	1,142	4,922	2,953	6,3	-	13,23	Lever
1-1/2	7,481	1,497	1,497	6,142	3,819	9,056	-	26,46	Lever
2	8,504	2,008	2,008	6,497	4,213	9,056	-	33,07	Lever
2-1/2	9,489	2,52	2,52	7,481	5,591	15,749	-	37,48	Lever
3	11,142	2,993	2,993	8,268	5,985	15,749	-	44,1	Lever
4	12,008	4,016	4,016	10	7,008	25,591	-	108,03	Lever
6	15,867	5,985	5,985	12,520	10,709	41,339	-	211,65	Lever
8	19,764	7,993	7,993	15	13,465	-	18,51	396,84	Gear
10	22,363	10	10	17,481	15,945	-	18,51	771,62	Gear

(unit : mm)

Size	A	B	B1	C	D	E	E1	Weight(kg)	Operation
25	165	29	29	125	75	160	-	6	Lever
40	190	38	38	156	97	230	-	12	Lever
50	216	51	51	165	107	230	-	15	Lever
65	241	64	64	190	142	400	-	17	Lever
80	283	76	76	210	152	400	-	20	Lever
100	305	102	102	254	178	650	-	49	Lever
150	403	152	152	318	297	1,050	-	96	Lever
200	502	203	203	381	342	-	470	180	Gear
250	568	254	254	444	405	-	470	350	Gear

MOUNTING DIMENSIONS AND STANDARD MATERIAL SPECIFICATIONS

MODEL FB2 - CLASS 150 AND 300



ISO 5211 Mounting PAD for Actuator Selection

(unit: mm, Nm)

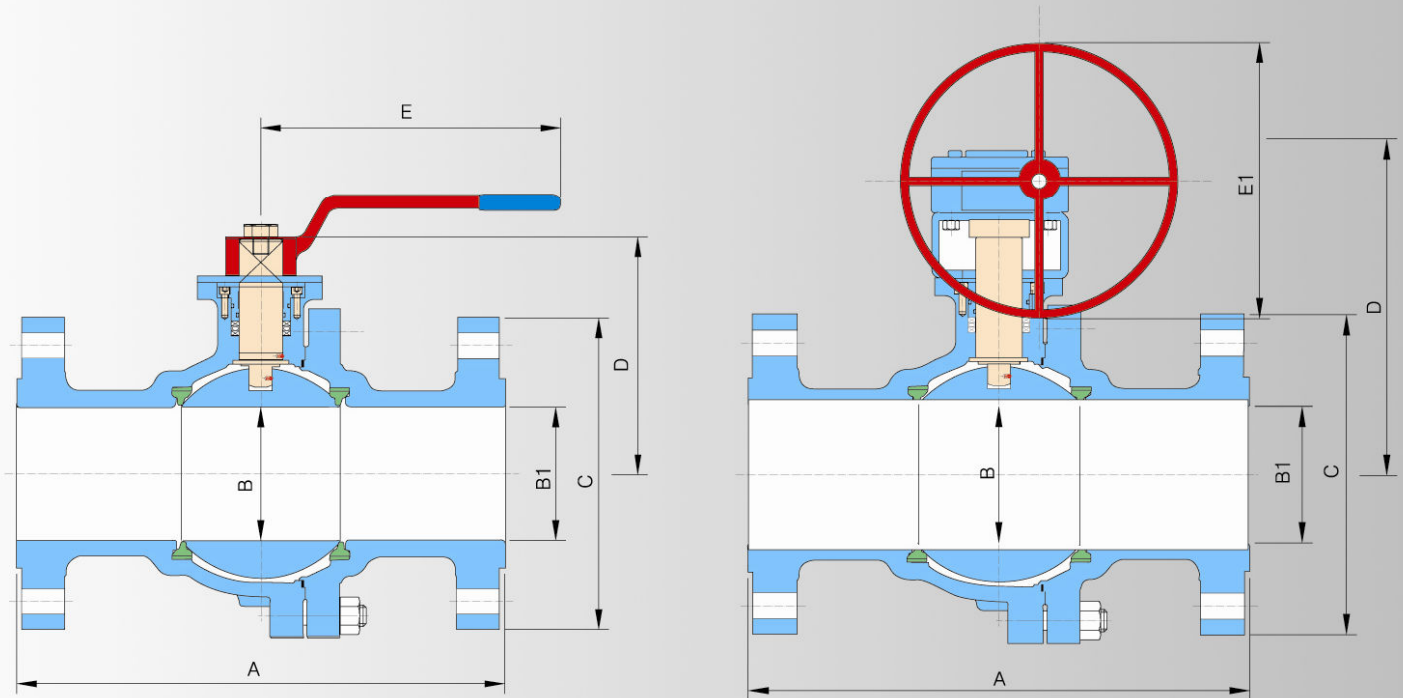
Ansi Class		A	B	C	PCDD	$\overset{0}{\phi}E-0.05$	F-0.05	G	H	J	K	ISO 5211 Mounting	
150	300											PAD No.	Torque Max.
1"	1"	65	48	48	50	13,9	7,9	15	11,5	26,5	1/4"	F-05	125
1-1/2"	1-1/2"	79	73	58	70	19,9	12	20	16	36	5/16"	F-07	250
2"	2"	79	73	58	70	19,9	12	20	16	36	5/16"	F-07	250
2-1/2"	2-1/2"	79	73	78	70	26,9	17	24	25	49	5/16"	F-07	250
3"	3"	79	73	78	70	26,9	17	24	25	49	5/16"	F-07	250
4"	4"	104	96	78	102	33,9	22	20	29	49	3/8"	F-10	500
6"	6"	120	120	90	102	44	27	38	34	72	3/8"	F-10	500
8"	8"	135	135	104	140	50,9	32	38	44	82	5/8"	F-14	2000
10"	10"	176	135	120	140	50,9	32	40	44	84	5/8"	F-14	2000

Standard Material Specifications

Part Name	Carbon Steel		Low-Temp, Carbon Steel		Stainless Steel
	Normal	Sour	Normal	Sour	
Body	A216 Gr. WCB		A352 Gr. LCB		A351 Gr. CF8M
Retainer	A216 Gr. WCB		A352 Gr. LCB		A351 Gr. CF8M
Ball	A351 Gr. CF8M				
Stem	A276 Gr. 316				
Seat	RTFE				
Packing	Graphite				
Gasket	PTFE / Graphite / SW (316 + Graphite)				
ISO PAD	A216 Gr. WCB		A352 Gr. LCB		A351 Gr. CF8M
Stopper	A167 Gr. 304		A283 Gr. D		A167 Gr. 304
Bearing	PTFE				
Blot	A193 Gr. B7	A193 Gr. B7M	A320 Gr. L7	A320 Gr. L7M	A193 Gr. B8M
Lever	Ductile Cast Iron				
Gear Operator	Cast iron Case, Ductile Iron Gear, High Carbon Steel Worm				

FB2 - ASME CLASS 600

DIMENSIONS AND WEIGHTS



(unit : inch)

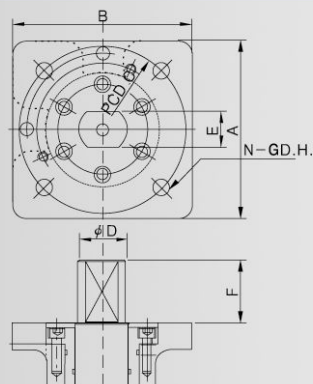
Size	A	B	B1	C	D	E	E1	Weight(lb)	Operation
2	11,497	2,008	2,008	6,497	5,749	9,056	-	57.3	Lever
3×2×3	14,016	2,008	2,993	8,268	5,749	9,056	-	64	Lever
3	14,016	2,993	2,993	8,268	7,323	15,749	-	123.5	Lever
4×3×4	17,008	2,993	4,016	10,749	7,323	15,749	-	143.4	Lever
4	17,008	4,016	4,016	10,749	9,134	25,591	-	198.4	Lever
6×4×6	22,008	4,016	5,985	14,016	9,134	25,591	-	269	Lever
6	22,008	5,985	5,985	14,016	11,142	41,339	-	396.8	Lever
8×6×8	25,985	5,985	7,993	16,497	11,123	41,339	-	405.6	Lever
8	25,985	7,993	7,993	16,497	13,189	-	20,079	771.6	Gear
10×8×10	30,985	7,993	10	20	13,189	-	20,079	782.6	Gear

(unit : mm)

Size	A	B	B1	C	D	E	E1	Weight(kg)	Operation
50	292	51	51	165	146	230	-	26	Lever
80×50×80	356	51	76	210	146	230	-	29	Lever
80	356	76	76	210	186	400	-	56	Lever
100×80×100	432	76	102	273	186	400	-	65	Lever
100	432	102	102	273	232	650	-	90	Lever
150×100×150	559	102	152	356	232	650	-	122	Lever
150	559	152	152	356	282.5	1050	-	180	Lever
200×150×200	660	152	203	419	283	1050	-	184	Lever
200	660	203	203	419	335	-	510	350	Gear
250×200×250	787	203	254	508	335	-	510	355	Gear

MOUNTING DIMENSIONS AND STANDARD MATERIAL SPECIFICATIONS

MODEL FB2 - CLASS 600



ISO 5211 Mounting PAD for Actuator Selection

(unit : mm, Nm)

Ansi Class		A	B	PCDC	$\overset{0}{\underset{-0.05}{\varnothing D}}$	$\overset{0}{\underset{-0.05}{E}}$	F	N- $\varnothing E$	ISO 5211 Mounting	
600									PAD No.	Torque Max.
2"	F.P	90	90	70	22,2	17	30	4-5/16"	F-07	250
	R.P	-	-	-	-	-	-	-	-	-
3"	F.P	102	102	102	28,2	22	39	4-3/8"	F-10	500
	R.P	90	90	70	22,2	17	30	4-5/16"	F-07	250
4"	F.P	135	135	125	36,2	27	48	4-1/2"	F-12	1000
	R.P	102	102	102	28,2	22	39	4-3/8"	F-10	500
6"	F.P	145	145	140	48,2	36	64	4-5/8"	F-14	2000
	R.P	135	135	125	36,2	27	48	4-1/2"	F-12	1000
8"	F.P	170	170	165	60,2	46	82	4-3/4"	F-16	4000
	R.P	145	145	140	48,2	36	64	4-5/8"	F-14	2000
10"	F.P	-	-	-	-	-	-	-	-	-
	R.P	170	170	165	60,2	46	82	4-3/4"	F-16	4000

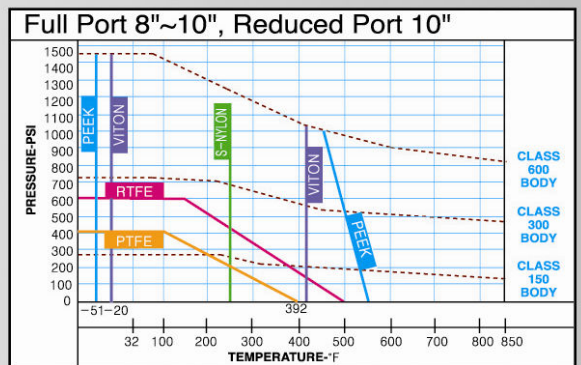
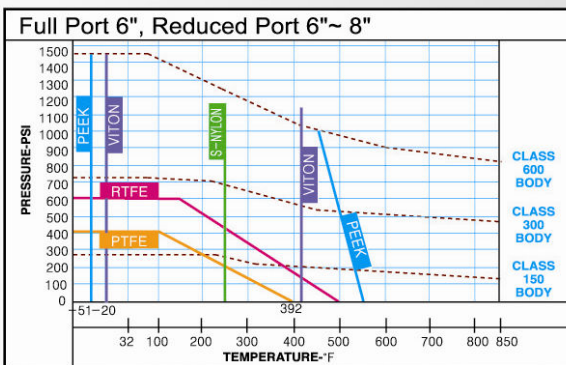
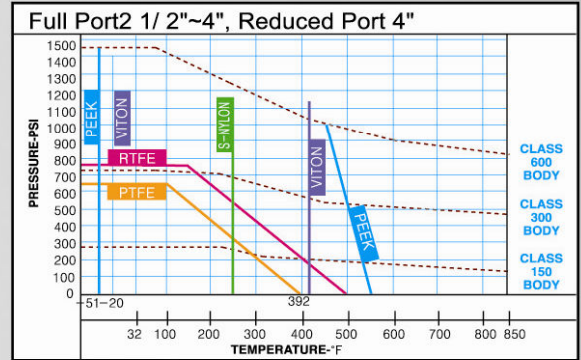
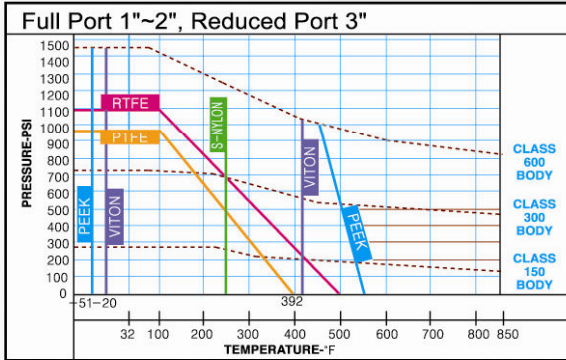
Standard Material Specifications

Part Name	Carbon Steel		Low-Temp, Carbon Steel		Stainless Steel
	Normal	Sour	Normal	Sour	
Body	A216 Gr. WCB		A352 Gr. LCB		A351 Gr. CF8M
Retainer	A216 Gr. WCB		A352 Gr. LCB		A351 Gr. CF8M
Ball	A216 Gr. WCB		A352 Gr. LCB		A351 Gr. CF8M
Stem	A216 Gr. WCB		A352 Gr. LCB		A351 Gr. CF8M
Seat	A216 Gr. WCB		A352 Gr. LCB		A351 Gr. CF8M
Packing	A216 Gr. WCB		A352 Gr. LCB		A351 Gr. CF8M
Gasket	A216 Gr. WCB		A352 Gr. LCB		A351 Gr. CF8M
ISO PAD	A216 Gr. WCB		A352 Gr. LCB		A351 Gr. CF8M
O-Ring	A216 Gr. WCB		A352 Gr. LCB		A351 Gr. CF8M
Stopper	A167 Gr. 304		A283 Gr. D		A167 Gr. 304
Bearing	A216 Gr. WCB		A352 Gr. LCB		A351 Gr. CF8M
Blot	A193 Gr. B7	A193 Gr. B7M	A320 Gr. L7	A320 Gr. L7M	A193 Gr. B8M
Lever	A216 Gr. WCB		A352 Gr. LCB		A351 Gr. CF8M
Gear Operator	Cast iron Case, Ductile Iron Gear, High Carbon Steel Worm				

ENGINEERING DATA

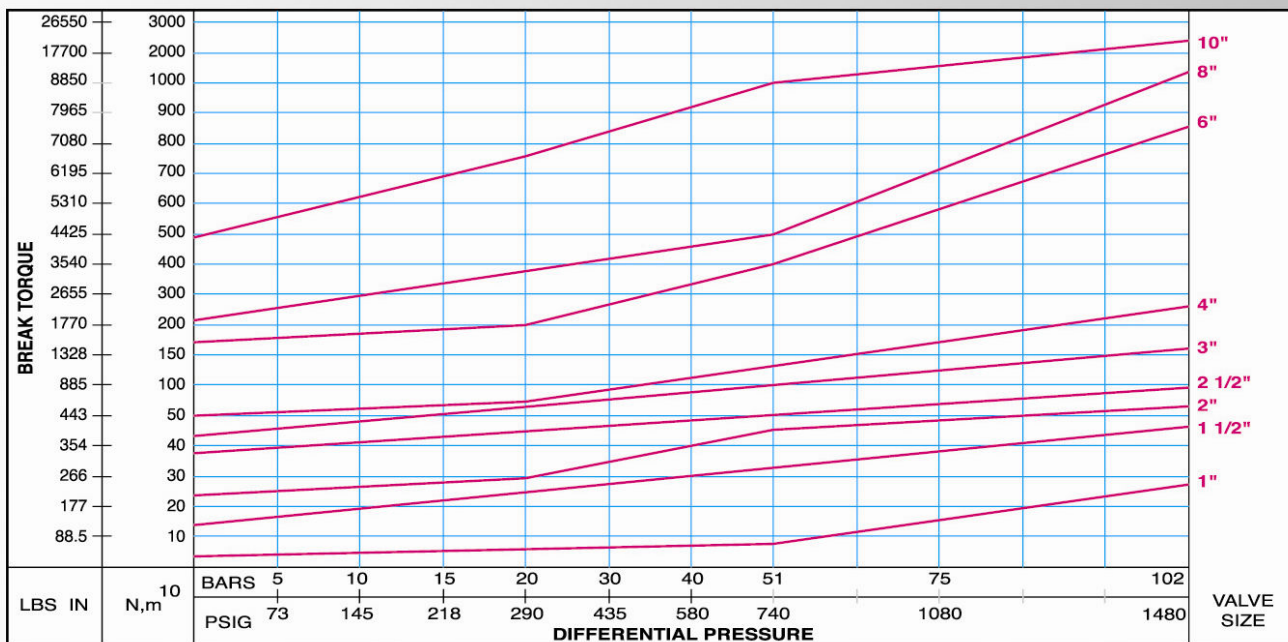
MODEL FB2

Pressure / Temperature Ratings for Model FB2



The dotted lines Indicate Working Pressures for casting stainless steel bodies.(ASTM A351-CF8M)
 The operating temperature of the valves is limited by the material of seat and seal.

Torque Data for Model FB2



Seat Material : Reinforced PTFE

To select the actuator, adding 25% safety factor to the required should be considered.

VALVE FIGURE NUMBER - PART SELECTION CODES

FB1	-	03	F	10	RF	-	1	A	1	A	-	L
1	-	2	3	4	5	-	6	7	8	9	-	10

1 - Valve Type		
One Piece Design		FB1
Two Piece Design		FB2
2 - Pressure Class		
ASME 150		01
300		03
600		06
3 - Bore		
Full Bore		F
Reduced Bore		R
4 - Size		
1"		01
1-1/2"		1b
2"		02
2-1/2"		2b
3"		03
4"		04
6"		06
8"		08
10"		10

5 - End Connection	
Raised Face	RF
Flat Face	FF
Ring Type Joint	RJ
6 - Body Material	
A216-WCB	1
A352-LCB	2
A351-CF8	3
A351-CF8M	4
Monel	5
Other	0
7 - Trim(Stem/Ball)	
A216-WCB + ENP	A
17-4 PH Stainless Steel	B
A351 CF3	C
A351 CF8M	D
Other	O
8 - Seat Insert	
Nylon	1
PTFE	2

RTFE(M)	3
RTFE	4
PEEK	5
Devlon	6
Other	0
9 - Seals	
NBR	A
Viton A	B
Viton GLT	C
Viton A + Polymite	D
Viton GLT + Polymite	E
PTFE	F
RTFE	G
Other	O
10 - Operation	
Lever	L
Gear Operator	G
Power Actuator	P

GENERAL TERMS OF SALE

GENERAL. On the terms and subject to the conditions set forth, Seller agrees to sell to Buyer and Buyer agrees to buy from seller, the products or services specified in the sales contract agreement which includes Seller's offer.

PRICE AND PAYMENT. All sales are subject to approval of Seller's credit department, if Buyer fails to make a payment when due, Seller may withhold all subsequent deliveries until full payment is made and require such security as Seller deems appropriate to secure future payments. Full risk of loss shall pass to the Buyer upon delivery to FOB point or destination port in case of CIF, however, Seller retains title, for security purposes only, to all products until paid for in full in cash. Unless other terms are specified hereof, payment is due in U.S. dollars, thirty (30) days after invoice date or by Letter of Credit. Amounts not paid by Buyer on or before due date shall bear interest at the lesser rate of eighteen percent (18.0%) per annum or the maximum rate allowed by law from the due until paid. If delivery is delayed by or at the request of Buyer, the date of readiness for delivery shall be deemed date of delivery for invoice purposes and Seller may impose a storage charge.

SHIPMENT. Shipment dates offered are estimates and represent the date materials may be available. Shipment dates offered commence only after receipt of Buyer's Purchase Order, clarification of required technical information, resolution of engineering and/or commercial issues of customer's written drawings when required. Any product offered from stock is subject to prior sale.

WARRANTY. All JMC® Ball Valves are guaranteed against defects in workmanship for a period of twelve (12) months after being placed in service, but not exceeding eighteen (18) months after shipment, when products are properly installed and used within the service and pressure range for which they were manufactured. This guarantee is limited to replacement free of charge any parts found to be defective in material or workmanship. This liability does not extend to cost of labor, freight or any consequential charges. The unauthorized use of third party components and workmanship in JMC® Ball Valve products voids this warranty.

CANCELLATION. No order may be canceled by the Buyer except upon written notice to Seller and upon payment to Seller of all costs incurred by it arising out of, or in connection with, the order. Seller shall have the right to cancel any order or to refuse to ship or to shipment in the event

Buyer fails to submit payments when due or perform any other obligations of Buyer. Export of goods covered hereby is subject to Korean Government control. In the event a validated Export License is denied by the Korean Government, Buyer's order(s) will be immediately canceled and Buyer will be liable for the order value or actual costs incurred, whichever the greater.

RETURN OF GOODS. No product shall be returned to seller without written authorization and shipping instructions having been obtained from Seller. Products authorized for return are to be shipped freight prepaid to the FOB manufacture point and are subject to a restocking charge.

LIMITATION OF LIABILITY. The liability of Seller under this agreement or with respect to any products supplied or services performed pursuant to this agreement, whether in contract, in tort, in strict liability of otherwise, shall not exceed the purchase price paid by Buyer with respect thereto. In no event will Seller be liable in contract, in tort, in strict liability or otherwise for any special, indirect, incidental or consequential damages, including, but not limited to, loss of anticipated profits or revenue, loss of use, non-operation or increased expense of operation of equipment, cost of capital, or claims of customers of Buyer for failure or delay in achieving anticipated profits or products.

Notice

- Data listed in this catalogue, including pressure / temperature rating, material specifications, and other performance related data are intended to provide general information, and guidelines about SAMJIN JMC products.
- While this catalogue has been compiled with the utmost care, we assume no responsibility for errors, inaccuracy or inadequacy relevant to any information provided in this catalogue. Any information in this catalogue is subject to change without prior notice.



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Design improvements may subject materials & specifications to change without notice. Please refer to our web site for current products specs.