



JBF-M^{+PLUS} Series

NEW-GEN Floating Metal Seated Ball Valve



**JDV
CONTROL
VALVES**

”

The new generation JBFM features a more robust structural design and fully meets all latest market design standards and requirements. It is engineered to perform reliably under extreme conditions, including high temperatures, cryogenic environments, and highly abrasive applications—making it the ideal solution for the most demanding industries.

INDUSTRIAL FIELDS

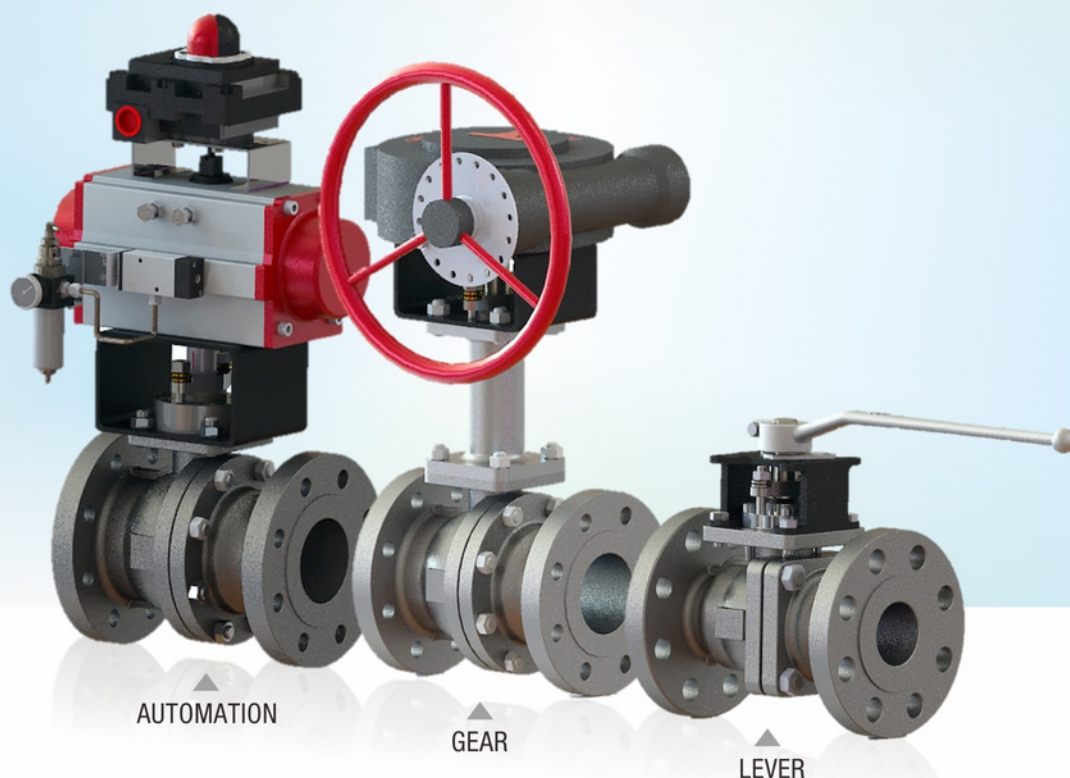
Oil & Gas • Refinery / Petrochemical
Chemical • Pulp & Paper
Power Plant • Steel Mill
Food • Mining
LNG



2 -PC FULL-BORE FLOATING METAL SEATED BALL VALVE



JBF-M^{PLUS} Series



APPLICABLE STANDARDS

- DESIGN: ASME B16.34 / API 6D / API 608 / EN 12516 / JIS B2071
- TEMPERATURE RANGE: -196°C to 538°C (-320°F TO 1000°F), higher temperature is available on request.
- FACE-TO-FACE DIMENSION: ASME B16.10 / EN 558 R27 / JIS B2002
- FLANGED DIMENSION: ASME B16.5 / EN 1092-1 / JIS B2220
- BODY PRESSURE TEST: ASME B16.34 / API 598 / EN 122661-1 / JIS B2003
- SEAT LEAKAGE TEST: FCI 70-2 CLASS VI IN STANDARD, ZERO LEAKAGE IN OPTION.
- FIRE SAFE: CERTIFICATED ACC. TO API 607 / ISO 10497
- FUGITIVE EMISSION: CERTIFICATED ACC. TO ISO 15848-1
- ANTI-STATIC: DIN EN ISO 17292
- CRYOGENIC: ISO 28921 / BS 6364 / GB 24925

SIZE RANGE

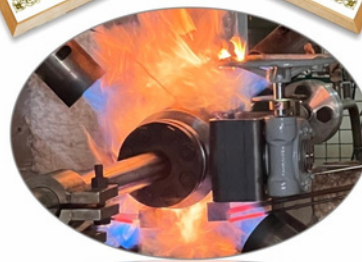
- 1/2" ~ 8" (DN15~DN200)

RATING

- CASTED: CLASS 150/300 / DIN PN16/40 / JIS 10/20K
- FORGED: CLASS 600 / PN100

CONNECTION ENDS

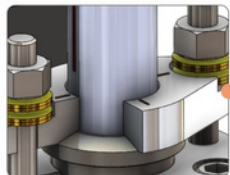
- FLANGED: RF / RTJ / LG
- WELDED: SW / BW



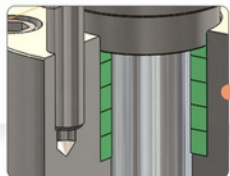
STANDARD DESIGN

ISO 5211

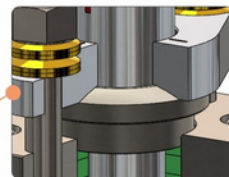
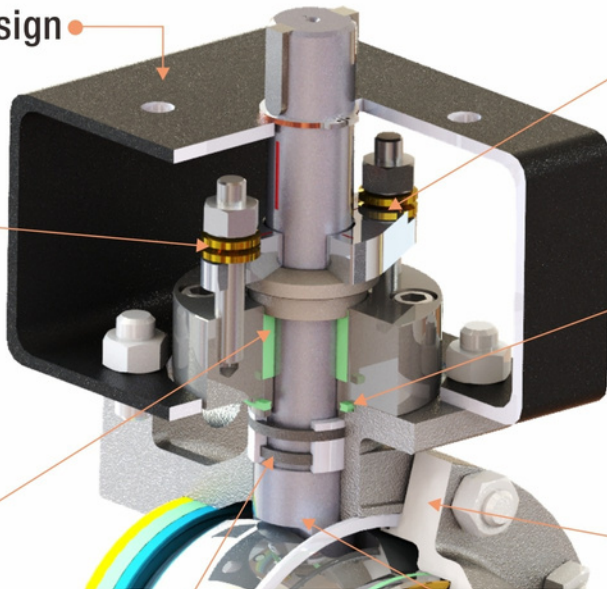
Direct Mounting Design



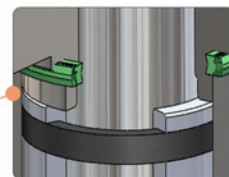
- Live Loading Design
- Adjustment Gland
- On/Off Indicator



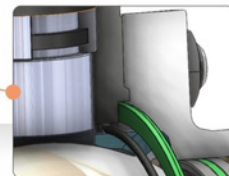
- Low Emission Design
- API 622 Graphite Packing



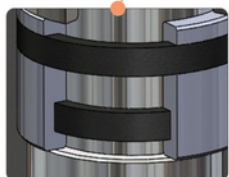
Packing Follower Design



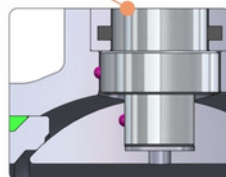
Body Gland Seal



Double Body Seals



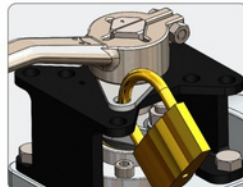
- Low Emission Design
- Double Graphite Seals (O-ring in option)



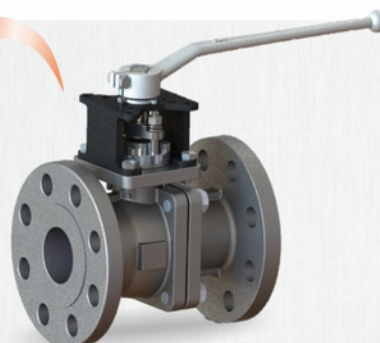
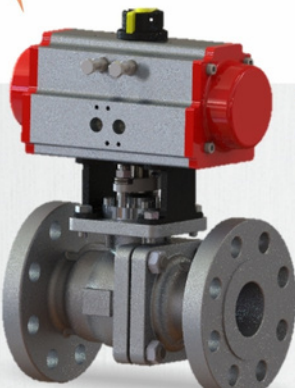
Anti-static Design

QSM DESIGN

(Quick Switch Module)

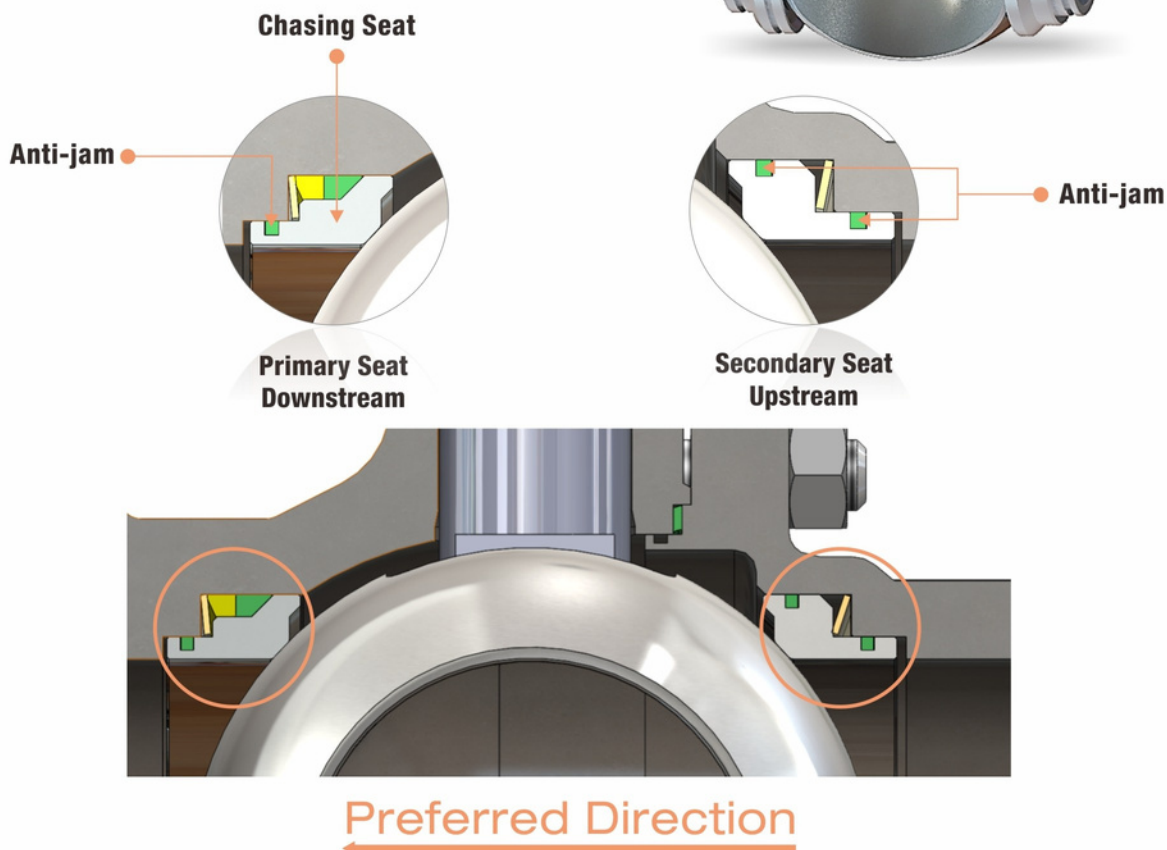


- Manual
Anti drop handle
Direction Marking
Lockable travel stop



SEAT DESIGN

- ✓ Bi-Directional Chasing Seat
- ✓ Mirror Surface Grinding
- ✓ Under Ra0.15



Back Pressure

- ✓ Ball is pushed toward secondary seat, primary seat is pressed by back pressure and seat spring behind seat offers the force to retain seats in constant with ball, this provides the tight sealing. Graphite seal provides sealing between seat and body

Normal Pressure

- ✓ Ball is pushed toward primary seat, seat springs behind seat offers the force to retain seats in constant with ball. Graphite seal provides sealing between seat and body.

V-NOTCH BALL IN OPTION



V3:30°



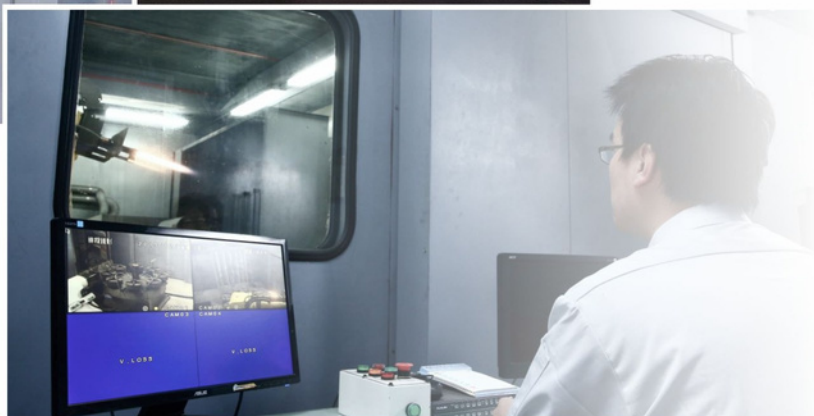
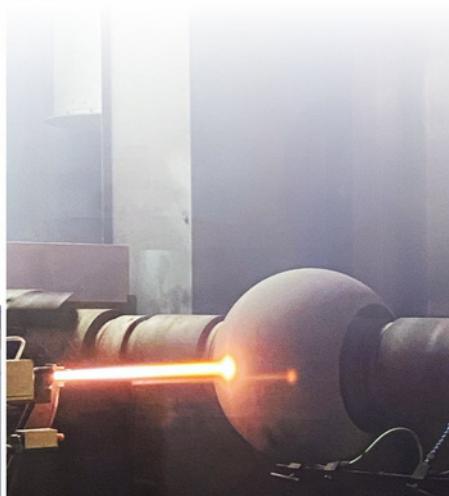
V6:60°



V9:90°

IN-HOUSE HVOF THERMAL SPRAY

Hard face coating resists high temperature, wear, and corrosion.



HARD FACE OPTIONS

Series			TEMPERATURE	HARDNESS	Applications
SH1	Tungsten Carbide	Tungsten Carbide	450°C (842°F)	HRC 70	Excellent for high temperature, high wearing, and corrosion resistance.
SH2	Chromium Carbide	Chromium Carbide	871°C (1600°F)	HRC 60	Excellent for high temperature cavitation, abrasion and sliding wear. Good hot gas and corrosion resistance.
ST	Stellite-20	Stellite-12	600°C (1112°F)	ST-20 HRC55 ST-12 HRC45	Good corrosion resistance for environments that need chemical and abrasion resistance.

Other coating materials are required in option.



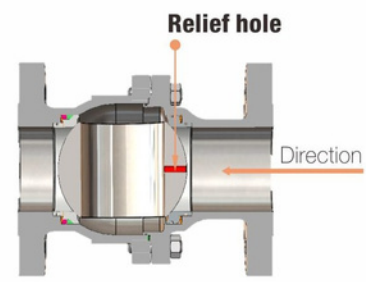
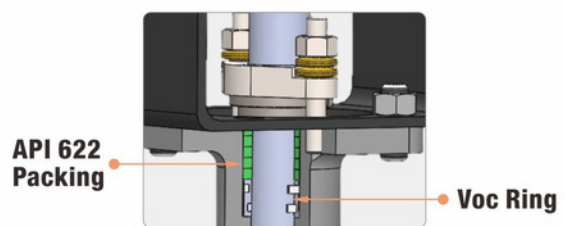


CRYOGENIC DESIGN AVAILABLE

- ✓ Standards of Compliance
 - ISO 28921-1: -196 to -50°C (-320 to -58°F)
 - BS 6364: -196 to -50°C (-320 to -58°F)
 - GB 24925: -196 to -29°C (-320 to -20°F)



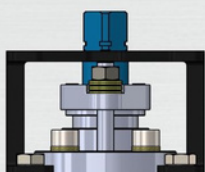
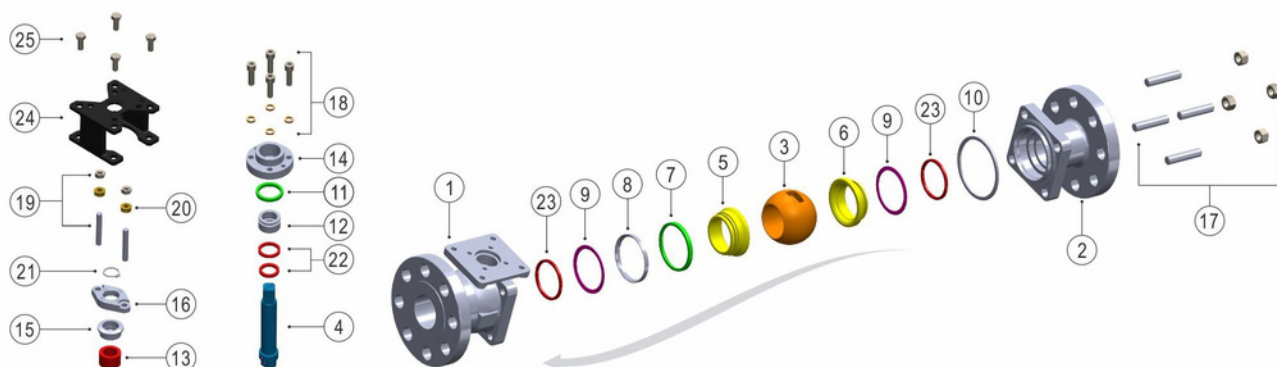
- ❄ Propane -42 °C
- ❄ Ethane -89 °C
- ❄ Ethylene -104 °C
- ❄ LNG -162 °C
- ❄ Nitrogen -196 °C



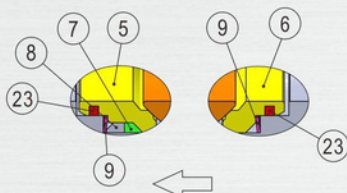
EXTENDED BONNET DESIGN

BONNET CODE	CRYOGENIC TEMPERATURE	HIGH TEMPERATURE
I	-29 to -49°C (-20 to -56°F)	250 to 350°C (482 to 662°F)
II	-50 to -110°C (-58 to -166°F)	Above 350°C (Above 662°F)
III	-111 to -190°C (-168 to -310°F)	

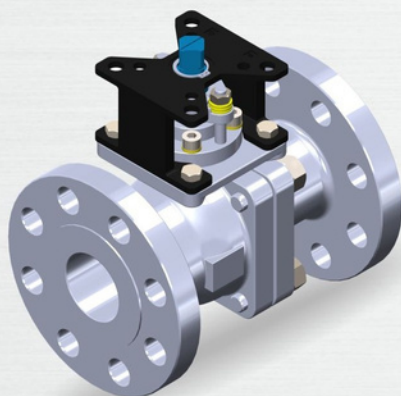




DIRECT MOUNTING

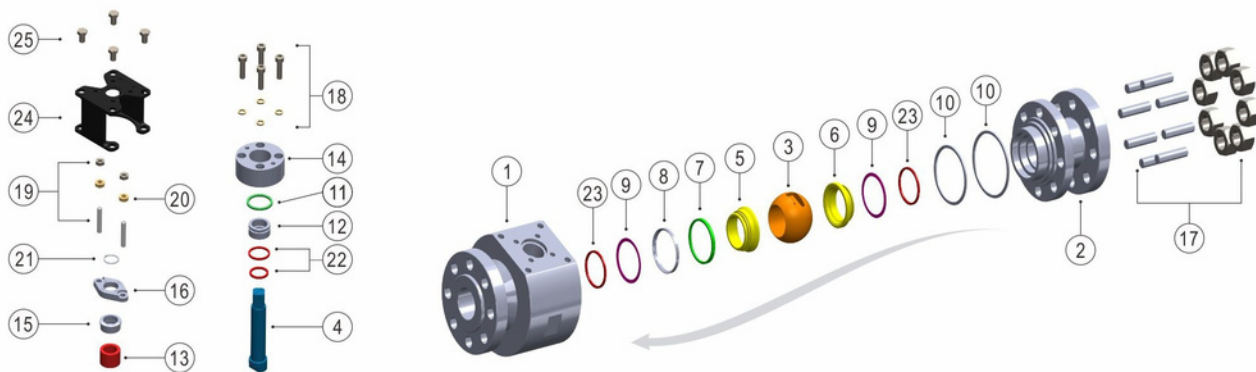


PREFERRED DIRECTION
BI-DIRECTIONAL



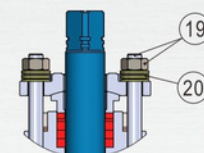
■ JIS 10K/20K ■ ASME Class 150/300 ■ DIN PN16/40

NO	PART NAME	MATERIAL		
1	BODY	SCPH2 A216-WCB 1.0619	SCS13A A351-CF8 1.4308	SCS14A A351-CF8M 1.4408
2	CAP	SCPH2 A216-WCB 1.0619	SCS13A A351-CF8 1.4308	SCS14A A351-CF8M 1.4408
3	BALL	A182-F304 / A182-F316+CRG / TC / STELLITE		
4	STEM	17-4HP / A286+HF		
5	BODY SEAT	A182-F304 / A182-F316+CRG / TC / STELLITE		
6	CAP SEAT	A182-F304 / A182-F316+CRG / TC / STELLITE		
7	SEAT GASKET	GRAPHITE		
8	SEAT RETAINER	A479-304 / A479-316		
9	SEAT SPRING	INCONEL® X-750		
10	BODY GASKET	316SS+GRAPHITE		
11	BODY GLAND GASKET	GRAPHITE		
12	STEM RETAINER	A479-304 / A479-316+HF		
13	GLAND PACKING	GRAPHITE		
14	BODY GLAND	A479-304 / A479-316		
15	PACKING FOLLOWER	A479-304 / A479-316+HF		
16	GLAND FLANGE	A351-CF8		
17	BOLT & NUT	A193-B7&A194-7	A193-B8&A194-8	A193-B8M&A194-8M
18	BODY GLAND BOLT & WASHER	STAINLESS STEEL		
19	GLAND BOLT & NUT	STAINLESS STEEL		
20	BELLEVILLE WASHER	301SS / INCONEL® X-750		
21	STEM SNAP RING	STAINLESS STEEL		
22	VOC RING	GRAPHITE		
23	ATNI JAM	GRAPHITE		
24	MOUNTING BRACKET	CS+PAINT / SS		
25	BRACKET BOLT	STAINLESS STEEL		

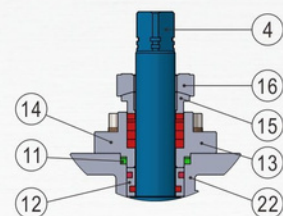


■ ASME 600 / 900 / 1500 / 2500 ■ DIN PN100

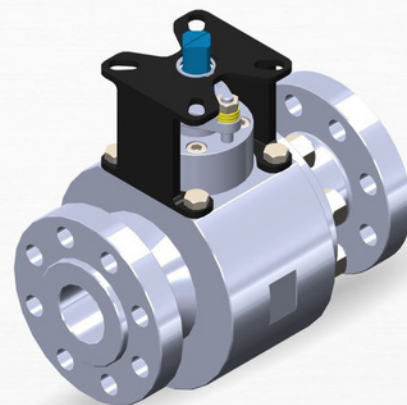
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1	BODY	A105N	A182-F304	A182-F316
2	CAP	A105N	A182-F304	A182-F316
3	BALL	A182-F304 / A182-F316+CRC / TC / STELLITE		
4	STEM	A286 / INCONEL718+HF		
5	BODY SEAT	A182-F304 / A182-F316+CRC / TC / STELLITE		
6	CAP SEAT	A182-F304 / A182-F316+CRC / TC / STELLITE		
7	SEAT GASKET	GRAPHITE		
8	SEAT RETAINER	A479-304 / A479-316		
9	SEAT SPRING	INCONEL® X-750		
10	BODY GASKET	316SS+GRAPHITE		
11	BODY GLAND GASKET	GRAPHITE		
12	STEM RETAINER	A479-304 / A479-316+HF		
13	GLAND PACKING	GRAPHITE		
14	BODY GLAND	A479-304 / A479-316		
15	PACKING FOLLOWER	A479-304 / A479-316+HF		
16	GLAND FLANGE	A351-CF8		
17	BOLT & NUT	A193-B7&A194-7	A193-B8 CL2&A194-8	A193-B8M CL2&A194-8M
18	BODY GLAND BOLT & WASHER	STAINLESS STEEL		
19	GLAND BOLT & NUT	STAINLESS STEEL		
20	BELLEVILLE WASHER	301SS / INCONEL® X-750		
21	STEM SNAP RING	STAINLESS STEEL		
22	VOC RING	GRAPHITE		
23	ATNI JAM	GRAPHITE		
24	MOUNTING BRACKET	CS+PAINT / SS		
25	BRACKET BOLT	STAINLESS STEEL		

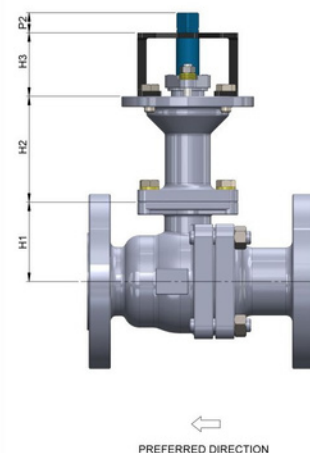
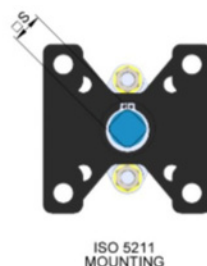
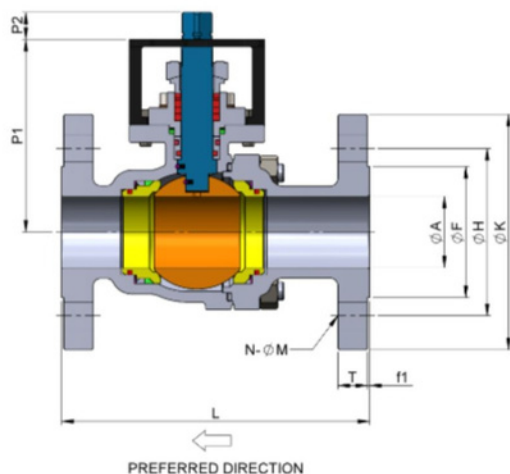


LIVE LOADING DESIGN



LOW EMISSION DESIGN





■ JIS 10K/20K ■ ASME Class 150/300 ■ DIN PN16/40

JIS 10K

mm

SIZE		BARE SHAFT														EXTENDED BONNET				
		A	F	H	K	M	N	L	T	f1	S	P1	P2	ISO 5211 MOUNTING	W(Kg)	H1	H2 / I	H2 / II	H2 / III	H3
15	1/2"	15	51	70	95	15	4	108	11	1	9	98.5	10	F05	2.8	48.5	100	200	300	50
20	3/4"	20	56	75	100	15	4	117	13	1	9	102.5	10	F05	3.5	52.5	100	200	300	50
25	1"	25	67	90	125	19	4	127	13	1	11	118	12	F07	5.3	58	100	200	350	60
40	1-1/2"	40	81	105	140	19	4	165	14	2	14	129	16	F07	8.5	69	125	250	350	60
50	2"	50	96	120	155	19	4	178	14	2	17	135	19	F07 / F10	12.1	75	125	250	350	60
65	2-1/2"	65	116	140	175	19	4	190	16	2	17	155	19	F07 / F10	17.9	95	125	250	350	60
80	3"	76	126	150	185	19	8	203	16	2	22	203	24	F10 / F12	27.8	108	150	300	400	95
100	4"	100	151	175	210	19	8	229	16	2	27	245	29	F12 / F14	42	135	150	300	400	110
125	5"	125	182	210	250	23	8	356	18	2	36	311	38	F14 / F16	75	176	175	350	450	135
150	6"	150	212	240	280	23	8	394	20	2	36	325	38	F14 / F16	100	190	175	350	450	135
200	8"	201	262	290	330	23	12	457	20	2	46	392	48	F16 / F25	189	242	175	350	450	150

JIS 20K

mm

SIZE		BARE SHAFT														EXTENDED BONNET					
		A	F	H	K	M	N	L	T	f1	S	P1	P2	ISO 5211 MOUNTING	W(Kg)	H1	H2 / I	H2 / II	H2 / III	H3	
15	1/2"	15	51	70	95	15	4	140	13	1	9	98.5	10	F05	3.3	48.5	100	200	300	50	
20	3/4"	20	56	75	100	15	4	152	15	1	9	102.5	10	F05	4.7	52.5	100	200	300	50	
25	1"	25	67	90	125	19	4	165	15	1	11	118	12	F07	6.6	58	100	200	350	60	
40	1-1/2"	40	81	105	140	19	4	190	16	2	14	129	16	F07	11.4	69	125	250	350	60	
50	2"	50	96	120	155	19	8	216	16	2	17	135	19	F07 / F10	14.3	75	125	250	350	60	
65	2-1/2"	65	116	140	175	19	8	241	18	2	17	155	19	F07 / F10	23.4	95	125	250	350	60	
80	3"	76	132	160	200	23	8	283	20	2	22	203	24	F10 / F12	36.4	108	150	300	400	95	
100	4"	100	160	185	225	23	8	305	22	2	27	245	29	F12 / F14	55	135	150	300	400	110	
150	6"	150	230	260	305	25	12	403	26	2	36	325	38	F14 / F16	131	190	175	350	450	135	
200	8"	201	275	305	350	25	12	502	28	2	46	392	48	F16 / F25	242	242	175	350	450	150	



ASME Class 150

mm

SIZE		BARE SHAFT														EXTENDED BONNET				
		A	F	H	K	M	N	L	T	f1	S	P1	P2	ISO 5211 MOUNTING	W(Kg)	H1	H2 / I	H2 / II	H2 / III	H3
15	1/2"	15	35.1	60.5	89	16	4	108	9.7	1.5	9	98.5	10	F05	2.8	48.5	100	200	300	50
20	3/4"	20	42.9	69.8	99	16	4	117	11.2	1.5	9	102.5	10	F05	3.5	52.5	100	200	300	50
25	1"	25	50.8	79.2	108	16	4	127	12.7	1.5	11	118	12	F07	5.3	58	100	200	350	60
40	1-1/2"	40	73.0	98.6	127	16	4	165	15.9	1.5	14	129	16	F07	8.5	69	125	250	350	60
50	2"	50	91.9	120.6	152	19	4	178	17.5	1.5	17	135	19	F07 / F10	12.1	75	125	250	350	60
65	2-1/2"	65	104.6	139.7	178	19	4	190	20.6	1.5	17	155	19	F07 / F10	17.9	95	125	250	350	60
80	3"	76	127.0	152.4	190	19	4	203	22.4	1.5	22	203	24	F10 / F12	27.8	108	150	300	400	95
100	4"	100	157.2	190.5	229	19	8	229	22.4	1.5	27	245	29	F12 / F14	42	135	150	300	400	110
125	5"	125	185.7	215.9	254	22	8	356	22.4	1.5	36	311	38	F14 / F16	75	176	175	350	450	135
150	6"	150	215.9	241.3	279	22	8	394	23.9	1.5	36	325	38	F14 / F16	100	190	175	350	450	135
200	8"	201	269.7	298.4	343	22	8	457	26.9	1.5	46	392	48	F16 / F25	189	242	175	350	450	150

ASME Class 300

mm

SIZE		BARE SHAFT														EXTENDED BONNET				
		A	F	H	K	M	N	L	T	f1	S	P1	P2	ISO 5211 MOUNTING	W(Kg)	H1	H2 / I	H2 / II	H2 / III	H3
15	1/2"	15	35.1	66.5	95	16	4	140	12.7	1.5	9	98.5	10	F05	3.3	48.5	100	200	300	50
20	3/4"	20	42.9	82.6	117	19	4	152	14.2	1.5	9	102.5	10	F05	4.7	52.5	100	200	300	50
25	1"	25	50.8	88.9	124	19	4	165	15.7	1.5	11	118	12	F07	6.6	58	100	200	350	60
40	1-1/2"	40	73.0	114.3	155	22	4	190	19.0	1.5	14	129	16	F07	11.4	69	125	250	350	60
50	2"	50	91.9	127.0	165	19	8	216	20.6	1.5	17	135	19	F07 / F10	14.3	75	125	250	350	60
65	2-1/2"	65	104.6	149.4	190	22	8	241	23.9	1.5	17	155	19	F07 / F10	23.4	95	125	250	350	60
80	3"	76	127.0	168.1	210	22	8	282	26.9	1.5	22	203	24	F10 / F12	36.4	108	150	300	400	95
100	4"	100	157.2	200.2	254	22	8	305	30.2	1.5	27	245	29	F12 / F14	55	135	150	300	400	110
125	5"	125	185.7	235.0	279	22	8	381	33.3	1.5	36	311	38	F14 / F16	100	176	175	350	450	135
150	6"	150	215.9	269.7	318	22	12	403	35.1	1.5	36	325	38	F14 / F16	131	190	175	350	450	135
200	8"	201	269.7	330.2	381	25	12	502	39.6	1.5	46	392	48	F16 / F25	242	242	175	350	450	150

DIN PN16

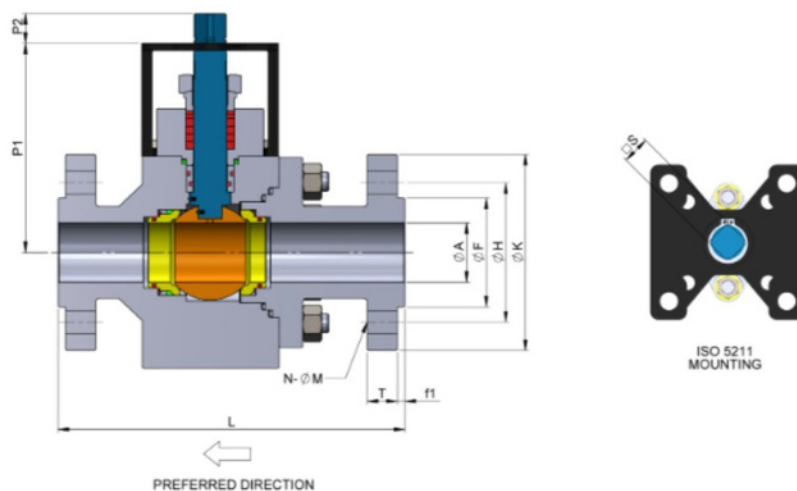
mm

SIZE		BARE SHAFT														EXTENDED BONNET				
		A	F	H	K	M	N	L	T	f1	S	P1	P2	ISO 5211 MOUNTING	W(Kg)	H1	H2 / I	H2 / II	H2 / III	H3
65	2-1/2"	65	122	145	185	18	8	170	15	3	17	155	19	F07 / F10	17	95	125	250	350	60
80	3"	76	138	160	200	18	8	180	17	3	22	203	24	F10 / F12	27	108	150	300	400	95
100	4"	100	158	180	220	18	8	190	17	3	27	245	29	F12 / F14	42	135	150	300	400	110
150	6"	150	212	240	285	22	8	350	19	3	36	325	38	F14 / F16	100	190	175	350	450	135
200	8"	201	268	295	340	22	12	400	21	3	46	392	48	F16 / F25	189	242	175	350	450	150

DIN PN40

mm

SIZE		BARE SHAFT														EXTENDED BONNET				
		A	F	H	K	M	N	L	T	f1	S	P1	P2	ISO 5211 MOUNTING	W(Kg)	H1	H2 / I	H2 / II	H2 / III	H3
15	1/2"	15	45	65	95	14	4	115	14	2	9	98.5	10	F05	3.3	48.5	100	200	300	50
20	3/4"	20	58	75	105	14	4	120	16	2	9	102.5	10	F05	4.7	52.5	100	200	300	50
25	1"	25	68	85	115	14	4	125	16	2	11	118	12	F07	6.6	58	100	200	350	60
40	1-1/2"	40	88	110	150	18	4	140	15	3	14	129	16	F07	11.4	69	125	250	350	60
50	2"	50	102	125	165	18	4	150	17	3	17	135	19	F07 / F10	14.3	75	125	250	350	60
65	2-1/2"	65	122	145	185	18	8	170	19	3	17	155	19	F07 / F10	23.4	95	125	250	350	60
80	3"	76	138	160	200	18	8	180	21	3	22	203	24	F10 / F12	36.4	108	150	300	400	95
100	4"	100	162	190	235	22	8	190	21	3	27	245	29	F12 / F14	55	135	150	300	400	110
150	6"	150	218	250	300	26	8	350	25	3	36	325	38	F14 / F16	131	190	175	350	450	135
200	8"	201	285	320	375	30	12	400	31	3	46	392	48	F16 / F25	242	242	175	350	450	150



■ ASME Class 600 / 900 / 1500 / 2500 ■ DIN PN100

ASME CLASS-600

		mm													
SIZE		A	F	H	K	M	N	L	T	f1	S	P1	P2	ISO 5211 MOUNTING	W(Kg)
15	1/2"	15	35.1	66.5	95	16	4	165	14.2	6.4	14	108	16	F07	8.2
20	3/4"	20	42.9	82.6	117	19	4	190	15.7	6.4	14	108	16	F07	9.6
25	1"	25	50.8	88.9	124	19	4	216	17.5	6.4	14	115	16	F10	15.5
40	1-1/2"	40	73.0	114.3	155	22	4	241	22.4	6.4	17	130	19	F07 / F10	25.4
50	2"	50	91.9	127.0	165	19	8	292	25.4	6.4	22	176	24	F10 / F12	40.2
65	2-1/2"	65	104.6	149.4	190	22	8	330	28.4	6.4	22	184.5	24	F10 / F12	61.8
80	3"	76	127.0	168.1	210	22	8	356	31.8	6.4	27	218	29	F12 / F14	79.4
100	4"	100	157.2	215.9	273	25	8	432	38.1	6.4	36	260	38	F14 / F16	125

ASME CLASS-900

		mm													
SIZE		A	F	H	K	M	N	L	T	f1	S	P1	P2	ISO 5211 MOUNTING	W(Kg)
15	1/2"	15	35.1	82.6	121	22	4	216	22.4	6.4	14	108	16	F10	15
20	3/4"	20	42.9	88.9	130	22	4	229	25.4	6.4	14	108	16	F10	17
25	1"	25	50.8	101.6	149	25	4	254	28.4	6.4	14	115	16	F10	31
40	1-1/2"	40	73.0	124.0	178	29	4	305	31.8	6.4	17	130	19	F12	36
50	2"	50	91.9	165.1	216	25	8	368	38.1	6.4	27	193	29	F14	58



ASME CLASS-1500

SIZE		A	F	H	K	M	N	L	T	f1	S	P1	P2	ISO 5211 MOUNTING	W(Kg)
15	1/2"	15	35.1	82.6	121	22	4	216	22.4	6.4	14	118	16	F10	17
20	3/4"	20	42.9	88.9	130	22	4	229	25.4	6.4	14	118	16	F10	19
25	1"	25	50.8	101.6	149	25	4	254	28.4	6.4	14	125	16	F10	34
40	1-1/2"	40	73.0	124.0	178	29	4	305	31.8	6.4	17	145	19	F12	39
50	2"	50	91.9	165.1	216	25	8	368	38.1	6.4	27	210	29	F14	62

ASME CLASS-2500

SIZE		A	F	H	K	M	N	L	T	f1	S	P1	P2	ISO 5211 MOUNTING	W(Kg)
15	1/2"	15	35.1	88.9	133	22	4	264	30.2	6.4	4	125	16	F10	29
20	3/4"	20	42.9	95.2	140	22	4	273	31.8	6.4	17	145	19	F12	32
25	1"	25	50.8	108.0	159	25	4	308	35.1	6.4	17	160	19	F12	51
40	1-1/2"	40	73.0	146.0	203	32	4	384	44.4	6.4	22	205	24	F14	58
50	2"	42	91.9	171.4	235	29	8	451	50.8	6.4	36	260	38	F16	86

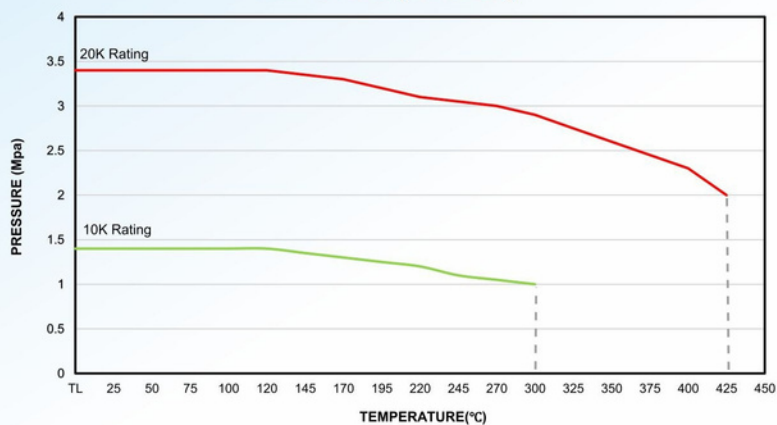
DIN-PN100

SIZE		A	F	H	K	M	N	L	T	f1	S	P1	P2	ISO 5211 MOUNTING	W(kg)
15	1/2"	15	45	75	105	14	4	130	18	2	14	108	16	F07	8
20	3/4"	20	58	90	130	18	4	150	20	2	14	108	16	F07	9
25	1"	25	68	100	140	18	4	160	22	2	14	115	16	F10	15
40	1-1/2"	40	88	125	170	22	4	200	25	3	17	130	19	F07 / F10	25
50	2"	50	102	145	195	26	4	230	27	3	22	176	24	F10 / F12	40
65	2-1/2"	65	122	170	220	26	8	290	31	3	22	184.5	24	F10 / F12	61
80	3"	76	138	180	230	26	8	310	33	3	27	218	29	F12 / F14	79
100	4"	100	162	210	265	30	8	350	37	3	36	260	38	F14 / F16	125

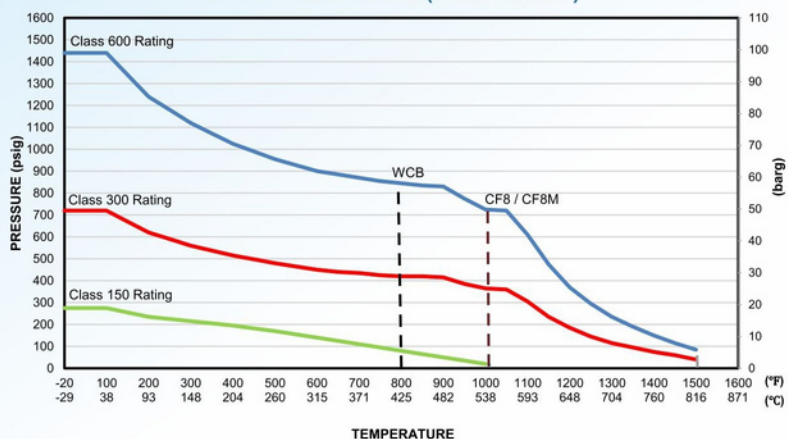
Cv VALUES

SIZE	DN15	DN20	DN25	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200
	1/2"	3/4"	1"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"
Cv	27	61	114	268	501	804	1158	2118	3412	5074	9337

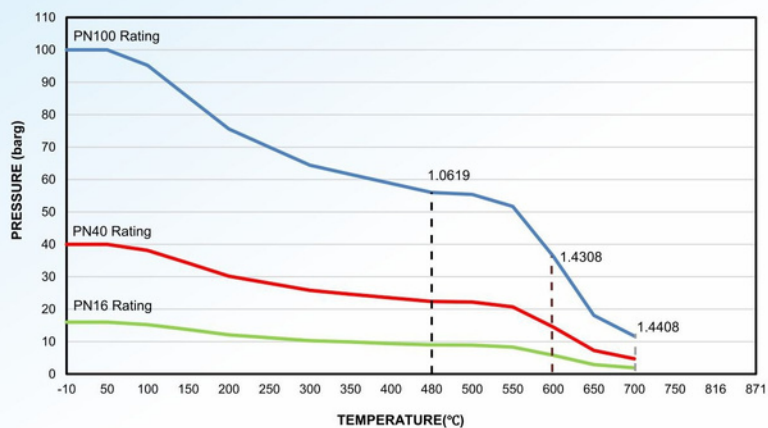
JIS 10K/20K (JIS B2220)



CLASS 150/300/600 (ASME B16.34)



DIN PN16/40/100



Do not exceed the Maximum Allowable Working Pressure (MAWP) specified by the manufacturer.

HOW TO ORDER

JBFM → **A** → **B** → **C** → **D** → **E** → **F** → **G**

Ex: **JBFM** → **C1** → **04** → **C** → **26** → **050** → **IA** → **SH1**

A. SPECIFICATION		B. BODY		C. TRIM		D. STEM	
A1	10K	02	WCB/SCPH2/1.0619	A	F304	10	2205
A2	20K	03	CF8/SCS13A/1.4308	C	F316	22	17-4PH
C1	CLASS 150	04	CF8M/SCS14A/1.4408	D	F304L	26	A286
C2	CLASS 300	05	CF3/1.4306	E	F316L	29	INCNEL718
C3	CLASS 600	06	CF3M/1.4404	F	F317		
C4	CLASS 900	07	CG8M/1.4412	I	F51		
C5	CLASS 1500	11	LCB/1.1138				
C6	CLASS 2500	12	LCC/1.7219				
D2	PN16	15	DUPEX/1.4470				
D4	PN40						
D5	PN100						

E. SIZE		F. OPTION		G. TEMPERATURE	
015	1/2"	F	FIRE SAFE	ST	BALL: STELLITE-20
020	3/4"	L1	EXT I	(600°C)	SEAT: STELLITE-12
025	1"	L2	EXT II	SH1	BALL: TC
040	1-1/2"	L3	EXT III	(450°C)	SEAT: TC
050	2"	I	LIVE LOADING	SH2	BALL: CRC
065	2-1/2"	H	LEVER	(871°C)	SEAT: CRC
080	3"	G	GEAR		
100	4"	A	BARE SHAFT		
125	5"	S1	SINGLE SCRAPER		
150	6"		(UPSTREAM SIDE)		
200	8"	S2	DOUBLE SCRAPER		
			(UPSTREAM + DOWNSTREAM)		
		N	NACE		
		CY	CRYOGENIC DESIGN		
		V3	30°		
		V6	60°		
		V6	90°		

※ Alternative materials are available on request.





TPEX 6843

HEADQUARTERS

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