JDV CONTROL VALVES

QUALITY SWISS

JBF-M Type

Floating Type Metal Seat Ball Valve

TAIWAN EXCELLENCE 2017

We link all you need and more than you expect.

JDV
CONTROL
VALVES

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Floating Type Metal Seat Ball Valve

Full Bore Two-Piece Flanged Ends
JIS 10/20K ASME CLASS 150/300/600 DIN PN16/40/100

JBF-M Metal-Seat Ball Valve is designed especially for severe services with high temperature, abrasion or corrosion in the industrial processes. With JDV's self-owned coating technology, a wide range of hard faces are available to satisfy all your using conditions.

Industrial Fields:

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

Product Features

1 .Highly precise machining enabling the seat leakage rate to reach FCI-70-2 Class V in standard and Class VI in option.
2 .Spring-loading design keeping the seat in tight contact with the ball even at low pressure. It also offers stable valve torques under higher pressure drop.
3 .Various seat designs meeting the different requirements.
4 .Wide choice of hard faces satisfying the needs of all applications.
5 .Oversized stem design reducing the deformation under high pressure or high temperature services.
6 .Larger ball design providing the best sealing.
7 .Anti-jam design of seating area precluding particles from getting stuck between the spring and the valve cap.
8 .ISO 10497 Fire Safe Test certificated.
9 .Anti-static design.
10.Anti-blowout stem design.

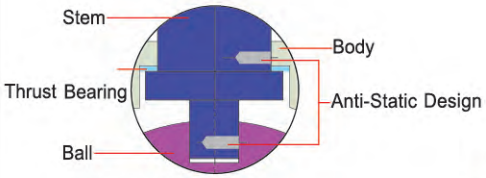
Design & Structures

Applications

1. High temperature
2. High abrasion
3. Corrosion

Seat:
Stainless Steel+Hard Face

Seat Spring:
Spring-loaded seat design



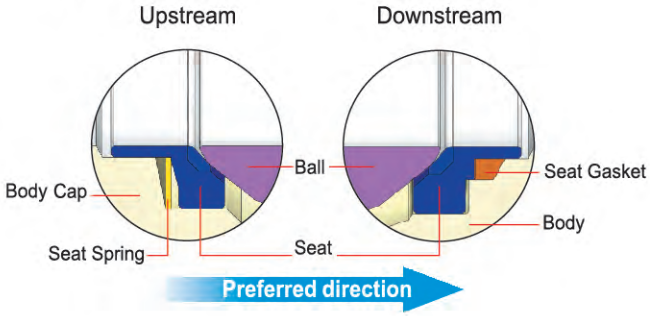
Stem:
Anti-blowout design
Anti-static design

Ball:
Stainless Steel+
Hard Face

Options:

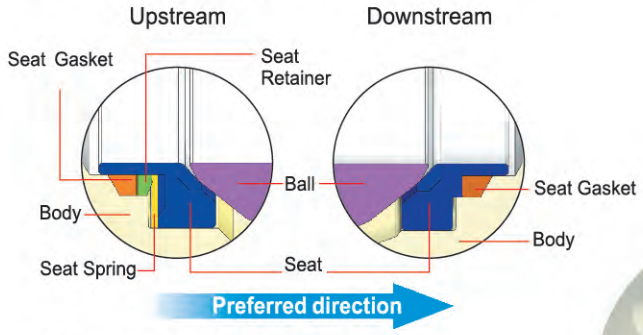
U Type : Uni-directional

Standard



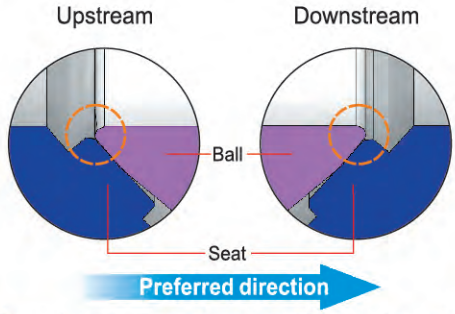
B Type : Bi-directional

For backflow service

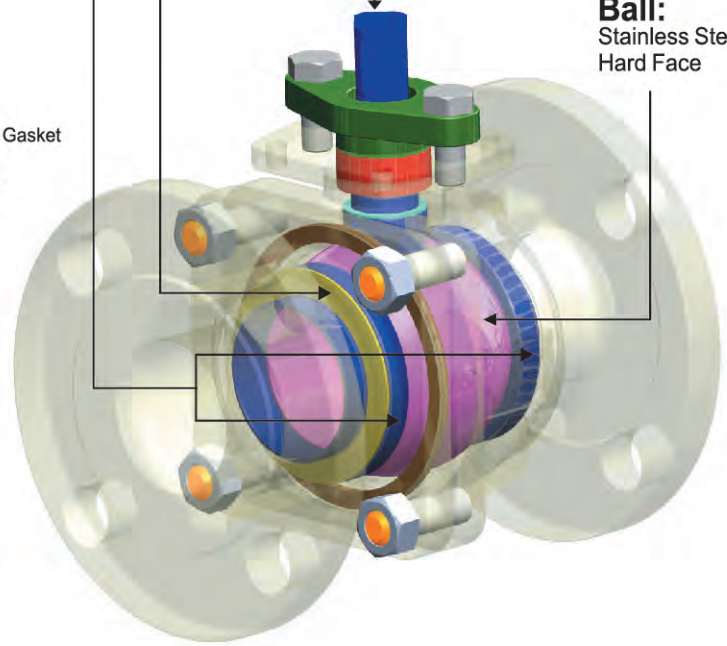


S Type : Scraper

For heavy slurry such as the black liquor in pulp & paper industry.

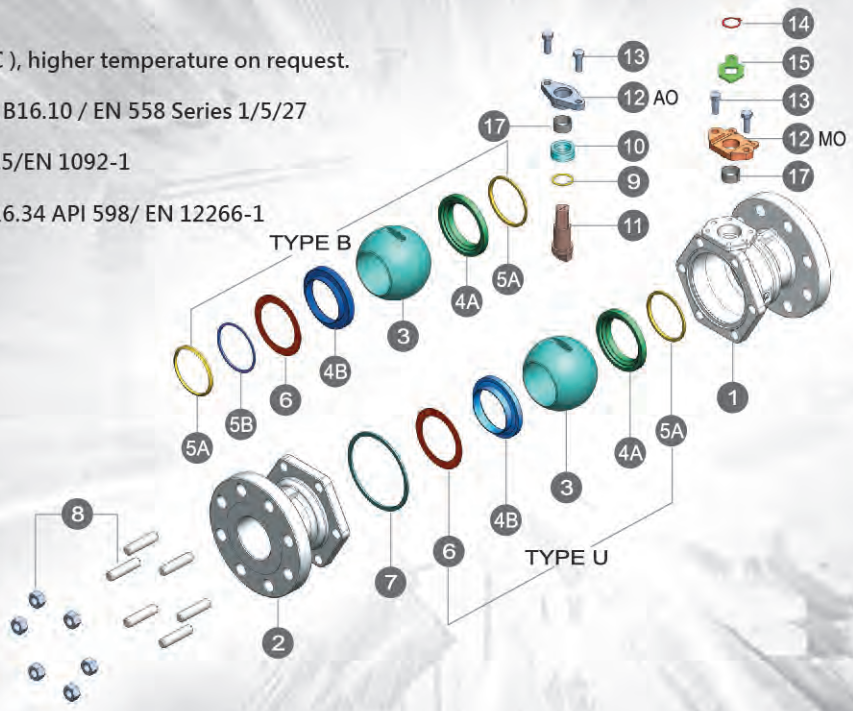


※ Downstream scraper on request for very heavy services.



Applicable Standards

- Body materal : Standard in WCB, CF8, CF8M Other materials are available according to requirements.
- Nominal size : 1/2" to 8" (DN15 to DN200)
- Pressure rating : JIS 10(20K ASME CLASS 150/300/600 DIN PN16/40/100
- End connections : RF
- Temperature Range : -20~932°F (-29~500°C), higher temperature on request.
- Face-to-Face Dimensions: JIS B2002 I ASME B16.10 / EN 558 Series 1/5/27
- Flanged Dimensions: JIS B2220 / ASME B16.5/EN 1092-1
- Body Pressure Testing: JIS B2D03 / ASME B16.34 API 598/ EN 12266-1
- Seat Leakage Testing : ANSI /FCI70-2
- Casting : MSS-SP-25 / MSS-SP-55
- Fire Safe Design : ISO 10497



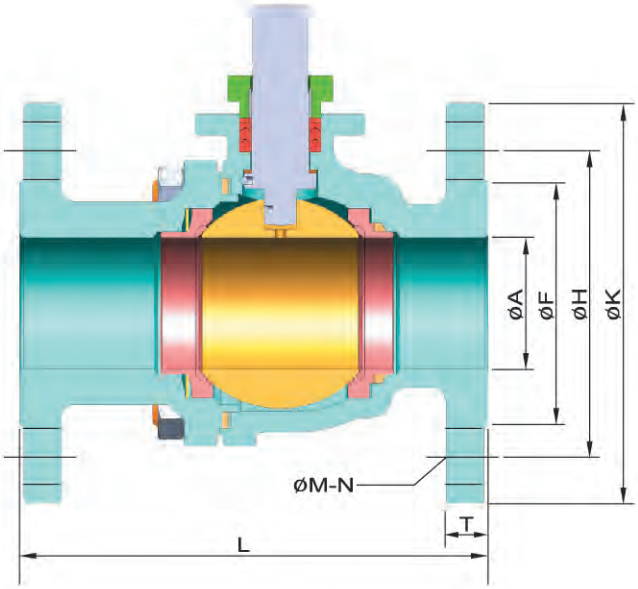
Technical Specifications

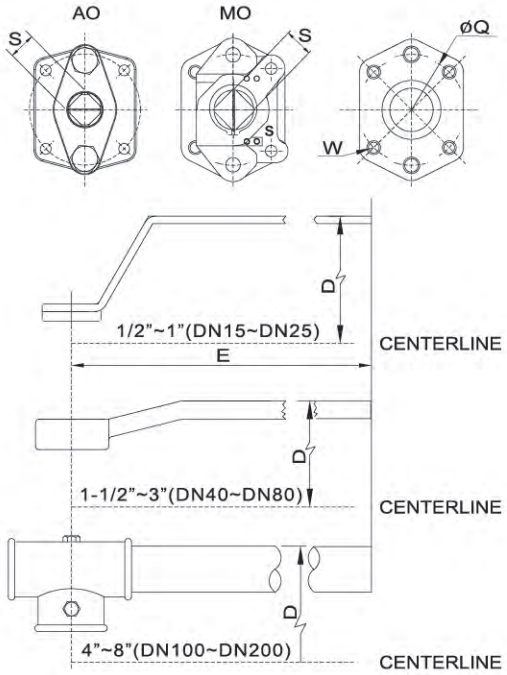
STANDARD MATERIALS

SERIES		SM			SH		
NO	PART NAME	-20~661°F (-29~350°C)			-20~797°F (-29~425°C)	-20~932°F (-29~500°C)	
1	BODY	A216-WCB	A351-CF8	A351-CF8M	A216-WCB	A351-CF8	A351-CF8M
2	CAP	A216-WCB	A351-CF8	A351-CF8M	A216-WCB	A194-A351-CF8	A351-CF8M
3	BALL	A351-CF8+HCR (2)		A351-CF8M+HCR	A351-CF8+TC (2)/CRC (2)		A351-CF8M+TC/CRC
4A	BODY SEAT	A351-CF8+STELLITE®		A351-CF8M+STELLITE®	A351-CF8+TC/CRC		A351-CF8M+TC/CRC
4B	CAP SEAT	A351-CF8+STELLITE®		A351-CF8M+STELLITE®	A351-CF8+TC/CRC		A351-CF8M+TC/CRC
5A	SEAT GASKET	GRAPHITE			GRAPHITE		
5B	SEAT RETAINER	A351-CF8		A351-CF8M	A351-CF8		A351-CF8M
6	SEAT SPRING	INCONEL® X-750			INCONEL® X-750		
7	BODY GASKET	316SS+GRAPHITE			316SS+GRAPHITE		
8	BOLT&NUT	A193-B7 & A194-7	A193-B8 & A194-8		A193-B7 & A194-7	A193-B8 & A194-8	
9	THRUST WASHER	METAL+HARD FACE			METAL+HARD FACE		
10	GLAND PACKING	GRAPHITE			GRAPHITE		
11	STEM	A564-630(HH1150)		A638-S66286	A638-S66286		
12	GLAND (1)	A351-CF8			A351-CF8		
13	GLAND BOLT	STAINLESS STEEL			STAINLESS STEEL		
14	SNAP CATCH (MO)	AISI 420			AISI 420		
15	TRAVEL STOP(MO)	A240-304			A240-304		
16	HANDLE (MO)	A240-304(1/2"~1") FCD45 (1-1/2"~3") FCD45+SGP(4" AND ABOVE)					
17	GLAND BEARING	A240-316+PTFE			A240-316+PTFE		

The above materials may be changed with different using conditions.

NOTES:
(1) Options: AO: Automation / MO: Manual
(2) HCR = Hard Chrome TC = Tungsten Carbide CRC = Chrome Carbide





DIMENSIONS (JIS-10K) (mm)

Size		A	F	H	K	M	N	L	T	S	Q	W	D	E	Wt (Kg)
15	1/2"	15	51	70	95	15	4	108	12	10	42	M5	97	130	1.8
20	3/4"	20	56	75	100	15	4	117	14	10	42	M5	100	130	2.2
25	1"	25	67	90	125	19	4	127	14	12	50	M6	110	160	3.2
40	1-1/2"	38	81	105	140	19	4	165	16	17	70	M8	115	224	6.3
50	2"	50	96	120	155	19	4	178	16	17	70	M8	120	224	9.0
65	2-1/2"	65	116	140	175	19	4	190	18	20	70	M8	140	324	13.2
80	3"	76	126	150	185	19	8	203	18	20	70	M8	150	324	17.4
100	4"	100	151	175	210	19	8	229	18	27	102	M10	220	400	28.2
125	5"	125	182	210	250	23	8	356	20	27	102	M10	240	550	44.0
150	6"	150	212	240	280	23	8	394	22	32	125	M12	280	550	62.5
200	8"	200	262	290	330	23	12	457	22	35	140	M16	340	1000	128.5

DIMENSIONS (JIS-20K) (mm)

Size		A	F	H	K	M	N	L	T	S	Q	W	D	E	Wt (Kg)
15	1/2"	15	51	70	95	15	4	140	14	10	42	M5	97	130	2.5
20	3/4"	20	56	75	100	15	4	152	16	10	42	M5	100	130	3.5
25	1"	25	67	90	125	19	4	165	16	12	50	M6	110	160	4.9
40	1-1/2"	38	81	105	140	19	4	190	18	17	70	M8	115	224	9.8
50	2"	50	96	120	155	19	8	216	18	17	70	M8	120	224	12.2
65	2-1/2"	65	116	140	175	19	8	241	20	20	70	M8	140	324	22.4
80	3"	76	132	160	200	23	8	282	22	20	70	M8	150	324	31.2
100	4"	100	160	185	225	23	8	305	24	27	102	M10	220	400	48.0
150	6"	150	230	260	305	25	12	403	28	32	125	M12	280	550	98.3
200	8"	200	275	305	350	25	12	502	30	35	140	M16	340	1000	171.1

DIMENSIONS (ASME CLASS-150) (mm)

Size		A	F	H	K	M	N	L	T	S	Q	W	D	E	Wt (Kg)
15	1/2"	15	35	60.5	89	16	4	108	11.2	10	42	M5	97	130	1.8
20	3/4"	20	43	70	98	16	4	117	11.2	10	42	M5	100	130	2.2
25	1"	25	51	79.5	108	16	4	127	11.2	12	50	M6	110	160	3.2
40	1-1/2"	38	73	98.5	127	16	4	165	14.3	17	70	M8	115	224	6.3
50	2"	50	92	120.5	152	19	4	178	15.9	17	70	M8	120	224	9.0
65	2-1/2"	65	105	139.5	178	19	4	190	17.5	20	70	M8	140	324	13.2
80	3"	76	127	152.5	190	19	4	203	19.1	20	70	M8	150	324	17.4
100	4"	100	157	190.5	229	19	8	229	23.9	27	102	M10	220	400	28.2
125	5"	125	186	216	254	22	8	356	23.9	27	102	M10	240	550	44.0
150	6"	150	216	241.5	279	22	8	394	25.4	32	125	M12	280	550	62.5
200	8"	201	270	298.5	343	22	8	457	28.6	35	140	M16	340	1000	128.5

The weight refers to bare shaft valves.
表中重量為裸閥重量

DIMENSIONS (ASME CLASS-300) (mm)

SIZE		A	F	H	K	M	N	L	T	S	Q	W	D	E	Wt (Kg)
15	1/2"	15	35	66.5	95	16	4	140	14.3	10	42	M5	97	130	2.5
20	3/4"	20	43	82.5	117	19	4	152	15.9	10	42	M5	100	130	3.5
25	1"	25	51	89	124	19	4	165	17.5	12	50	M6	110	160	4.9
40	1-1/2"	38	73	114.5	156	22	4	190	20.7	17	70	M8	115	224	9.8
50	2"	50	92	127	165	19	8	216	22.3	17	70	M8	120	224	12.2
65	2-1/2"	65	105	149	190	22	8	241	25.4	20	70	M8	140	324	22.4
80	3"	76	127	168	210	22	8	282	28.6	20	70	M8	150	324	31.2
100	4"	100	157	200	254	22	8	305	31.8	27	102	M10	220	400	48.0
125	5"	125	186	235	280	22	8	381	35.2	32	125	M12	260	550	67.1
150	6"	150	216	270	318	22	12	403	36.6	32	125	M12	280	550	98.3
200	8"	201	270	330	381	25	12	502	41.2	35	140	M16	340	1000	171.1

DIMENSIONS (ASME CLASS-600) (mm)

SIZE		A	F	H	K	M	N	L	T	S	Q	W	D	E	Wt (Kg)
15	1/2"	15	35	66.5	95	16	4	165	20.9	10	42	M5	97	130	2.6
20	3/4"	20	43	82.5	117	19	4	190	22.3	10	42	M5	100	130	4.0
25	1"	25	51	89	124	19	4	216	23.9	12	50	M6	110	160	5.9
40	1-1/2"	38	73	114.5	156	22	4	241	28.7	17	70	M8	115	224	11.8
50	2"	50	92	127	165	19	8	292	31.8	17	70	M8	130	224	16.9
65	2-1/2"	65	105	149.5	191	22	8	330	35	22	102	M10	190	324	29.9
80	3"	76	127	168	210	22	8	356	38.2	22	102	M10	200	324	36.0
100	4"	100	157	216	273	25	8	432	44.5	27	125	M12	240	550	67.0

DIMENSIONS (DIN PN16) (mm)

SIZE		A	F	H	K	M	N	L		T	S	Q	W	D	E	Wt (Kg)	
								S1	S27							S1	S27
DN 15~DN 50 USE PN40																	
65	2-1/2"	65	122	145	185	18	8	290	170	18	20	70	M8	140	324	14.9	13.2
80	3"	76	138	160	200	18	8	310	180	20	20	70	M8	150	324	19.4	17.4
100	4"	100	158	180	220	18	8	350	190	20	27	102	M10	220	400	32.1	28.2
150	6"	150	212	240	285	22	8	480	350	22	32	125	M12	280	550	67.9	62.5
200	8"	201	268	295	340	22	12	600	400	24	35	140	M16	340	1000	141	128.5

DIMENSIONS (DIN PN40) (mm)

SIZE		A	F	H	K	M	N	L		T	S	Q	W	D	E	Wt (Kg)	
								S1	S27							S1	S27
15	1/2"	15	45	65	95	14	4	130	115	16	10	42	M5	97	130	2.6	2.5
20	3/4"	20	58	75	105	14	4	150	120	18	10	42	M5	100	130	3.6	3.5
25	1"	25	68	85	115	14	4	160	125	18	12	50	M6	110	160	5.2	4.9
40	1-1/2"	38	88	110	150	18	4	200	140	18	17	70	M8	115	224	10.4	9.8
50	2"	50	102	125	165	18	4	230	150	20	17	70	M8	120	224	13.0	12.2
65	2-1/2"	65	122	145	185	18	8	290	170	22	20	70	M8	140	324	24.4	22.4
80	3"	76	138	160	200	18	8	310	180	24	20	70	M8	150	324	37.7	31.2
100	4"	100	162	190	235	22	8	350	190	24	27	102	M10	220	400	52.3	48.0
150	6"	150	218	250	300	26	8	480	350	28	32	125	M12	280	550	104.8	98.3
200	8"	201	285	320	375	30	12	600	400	34	35	140	M16	340	1000	187.4	171.1

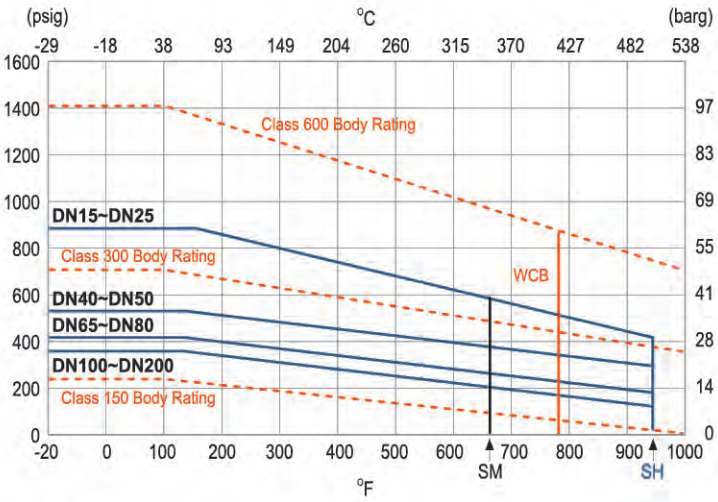
DIMENSIONS (DIN PN100) (mm)

SIZE		A	F	H	K	M	N	L	T	S	Q	W	D	E	Wt (Kg)
								S5							
15	1/2"	15	45	75	105	14	4	165	20	10	42	M5	63	130	2.6
25	1"	25	68	100	140	18	4	216	24	12	50	M6	76	160	4.0
40	1-1/2"	38	88	125	170	22	4	241	26	17	70	M8	88	224	5.9
50	2"	50	102	145	195	26	4	292	28	17	70	M8	94	224	11.8
65	2-1/2"	65	122	170	220	26	8	330	30	20	102	M10	115	324	16.9
80	3"	76	138	180	230	26	8	356	32	20	102	M10	120	324	36.0
100	4"	100	162	210	265	30	8	432	36	27	125	M12	195	400	67.0

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

TEMPERATURE & PRESSURE DIAGRAM



SM = MAX TEMPERATURE 661°F (350°C)
SH = MAX TEMPERATURE 932°F (500°C)
WCB = MAX TEMPERATURE 797°F (425°C)

HOW TO ORDER

JBF-M → A → B → C → D → E → F → G

Ex: **JBF-M → C1 → 04 → C → 26 → 050 → IAU → SH1**

A. SPECIFICATION

A1	JIS 10K
A2	JIS 20K
C1	ASME CLASS 150
C2	ASME CLASS 300
C3	ASME CLASS 600
D2	DIN PN16
D4	DIN PN40
D5	DIN PN100

B. BODY MAT'L

02	WCB (1.0619)
03	CF8 (1.4308)
04	CF8M (1.4408)
05	CF3 (1.4306)
06	CF3M (1.4404)
07	CG8M (1.4412)
11	LCB (1.1138)
12	LCC (1.7219)
15	CD3MN (1.4470)

C. BALL & SEAT MAT'L

A	CF8
C	CF8M
D	CF3
E	CF3M
F	CG8M
I	CD3MN

D. STEM MAT'L

10	S31803
22	630
26	S66286

E. SIZE

015	1/2"
020	3/4"
025	1"
040	1-1/2"
050	2"
065	2-1/2"
080	3"
100	4"
125	5"
150	6"
200	8"

F. OPTION

F	FIRE SAFE
L	EXTENDED STEM
I	LIVE LOADING
H	LEVER
G	GEAR
A	BARE SHAFT
U	UNI-DIRECTION
B	BI-DIRECTION
S1	SINGLE SCRAPER (UPSTREAM SIDE)
S2	DOUBLE SCRAPER (UPSTREAM+DOWNSTREAM)

G. TEMPERATURE

SM	-20~661°F(-29~350°C) BALL W/HCR SEAT W/STELLITE®
SH1	-20~842°F(-29~450°C) BALL W/TC SEAT W/TC
SH2	-20~932°F(-29~500°C) BALL W/CRC SEAT W/CRC

HOW TO ORDER

※ Alternative materials are available on request.

JDV GROUP

■ HEADQUARTERS
NO. 6-1, QINGNIAN RD., YANGMEI DIST.,TAOYUAN CITY 326, TAIWAN
TEL +886-3-4965066 FAX +886-3-4963526 E-MAIL: sales@jdv.com.tw

JDV CONTROL VALVES TGT ZUERCHER TECHNIK

6D-0539 DNV·GL ISO 9001:2015 CE 0035

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Full Bore Two-Piece Flanged Ends 全通徑兩片式法蘭連接

JIS 10/20K ASME CLASS 150/300/600 DIN PN16/40/100

JBF-M Metal-Seat Ball Valve is designed especially for severe services with high temperature, abrasion or corrosion in the industrial processes. With JDV's self-owned coating technology, a wide range of hard faces are available to satisfy all your using conditions.

Industrial Fields: 應用產業

Oil & Gas 石油 & 天然氣
Refinery / Petrochemical 石油精煉 /石化業
Chemical 化工業
Pulp & Paper 造紙業
Power Plant 發電廠
Steel Mill 煉鋼廠
Food 食品業
Mining 採礦業

JBF-M金屬密封球閥適用於高溫、磨耗性介質等惡劣環境,廣泛應用於
石油天然氣、石化、化工、電力、造紙、採礦冶金等領域.

Product Features 產品特性

1 .Highly precise machining enabling the seat leakage rate to reach FCI-70-2 Class V in standard and Class VI in option.
精準的製造工藝，提升閥座防洩漏能力達到ANSI / FCI70-2 V級為標準；VI級為選配。
2 .Spring-loading design keeping the seat in tight contact with the ball even at low pressure. It also offers stable valve torques under higher pressure drop.
彈性補償閥座設計，使閥座與閥球在低壓時仍保持緊密接觸，高壓時只需穩定的運作扭力。
3 .Various seat designs meeting the different requirements.
多樣式的閥座設計，可符合不同條件的需求。
4 .Wide choice of hard faces satisfying the needs of all applications.
可選擇性的硬密封面設計，可滿足各種工況需求。
5 .Oversized stem design reducing the deformation under high pressure or high temperature services.
高強度閥桿設計，在高溫高壓環境應用下不容易變形。
6 .Larger ball design providing the best sealing. 閥球設計提供了最佳密封效果。
7 .Anti-jam design of seating area precluding particles from getting stuck between the spring and the valve cap. 閥座防卡設計，可防止顆粒在彈簧與閥蓋間形成堵塞。
8 .ISO 10497 Fire Safe Test certificated. 通過 ISO 10497防火認證。
9 .Anti-static design. 防靜電設計。
10.Anti-blowout stem design. 閥桿防飛出設計。

適用場合 Applications

1. High temperature 高溫工況
2. High abrasion 耐磨耗
3. Corrosion 耐腐蝕

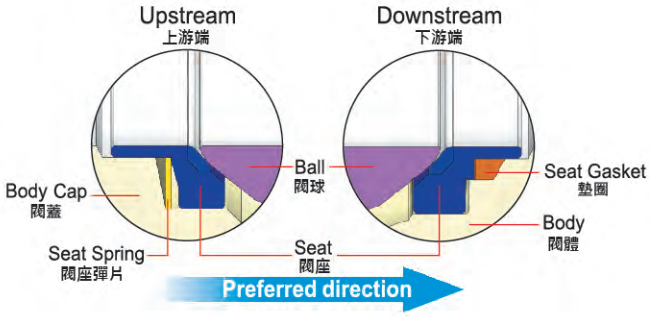
HVOF 超音速火焰噴塗技術

Design & Structures 設計&結構

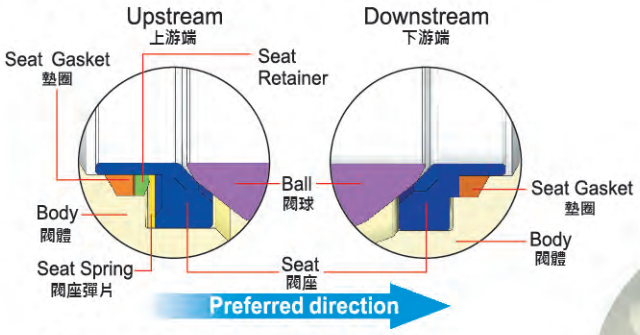
Seat:
Stainless Steel+Hard Face
閥座:
不銹鋼+硬化面

Options:

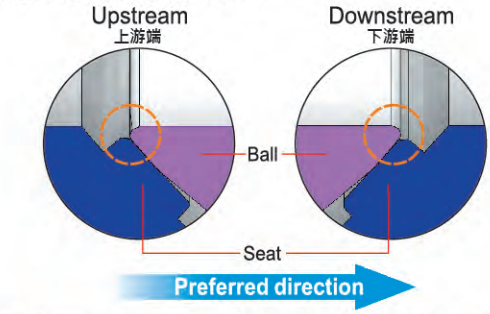
U Type : Uni-directional 單向密封設計
Standard



B Type : Bi-directional 雙向密封設計
For backflow service

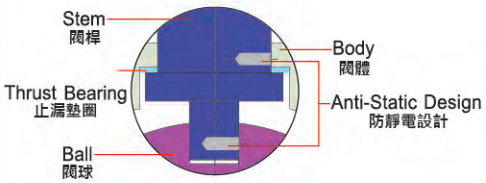


S Type : Scraper S類型:刮板
For heavy slurry such as the black liquor in pulp & paper industry.
用於重漿液，如黑液在製漿造紙行業。



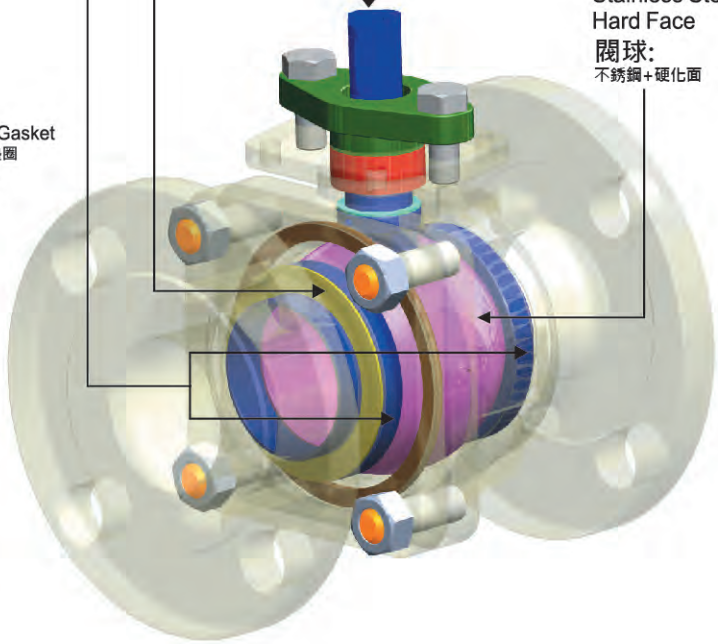
※ Downstream scraper on request for very heavy services.
下游端刮板可應要求提供排渣服務。

Seat Spring:
Spring-loaded seat design
閥座彈片:
閥座彈片設計



Stem:
Anti-blowout design
Anti-static design
閥桿防飛出設計:
防靜電設計

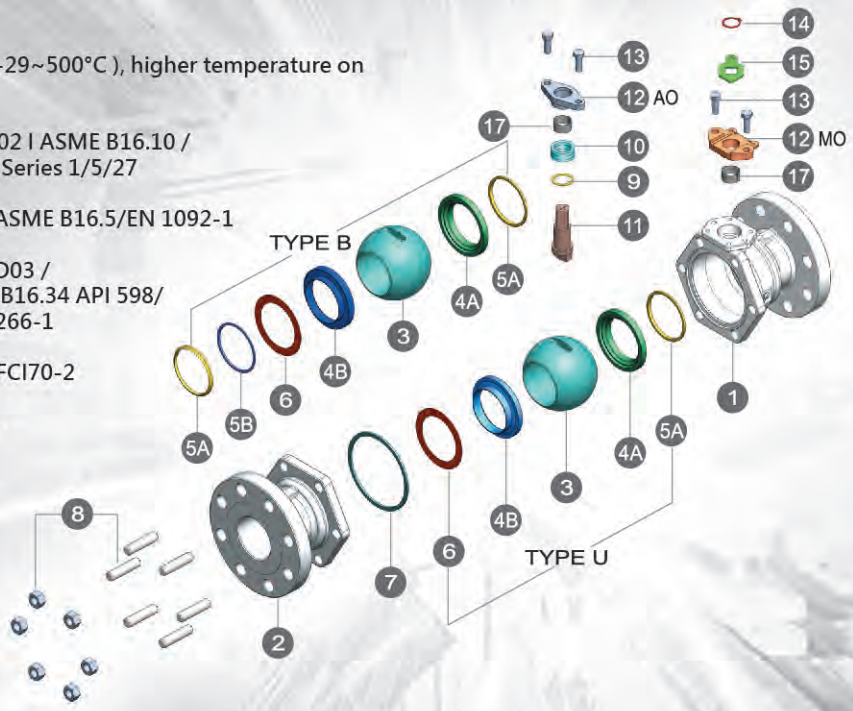
Ball:
Stainless Steel+
Hard Face
閥球:
不銹鋼+硬化面



JDV CONTROL VALVES

Applicable Standards 適用標準

- Body materal (閥體材質): Standard in WCB, CF8, CF8M Other materials are available according to requirements.(可依專案客制需求)
- Nominal size (尺寸): 1/2" to 8" (DN15 to DN200)
- Pressure rating(壓力等級) : JIS 10(20K ASME CLASS 150/300/600 DIN PN16/40/100
- End connections(連接型式) : RF(法蘭凸緣)
- Temperature Range (溫度範圍): -20~932°F (-29~500°C), higher temperature on request.
- Face-to-Face Dimensions(面間尺寸): JIS B2002 I ASME B16.10 / EN 558 Series 1/5/27
- Flanged Dimensions(法蘭尺寸): JIS B2220 / ASME B16.5/EN 1092-1
- Body Pressure Testing(本體壓力測試): JIS B2D03 / ASME B16.34 API 598/ EN 12266-1
- Seat Leakage Testing(球墊洩漏測試) : ANSI /FCI70-2
- Casting(鑄造標準): MSS-SP-25 / MSS-SP-55
- Fire Safe Design(防火設計) : ISO 10497



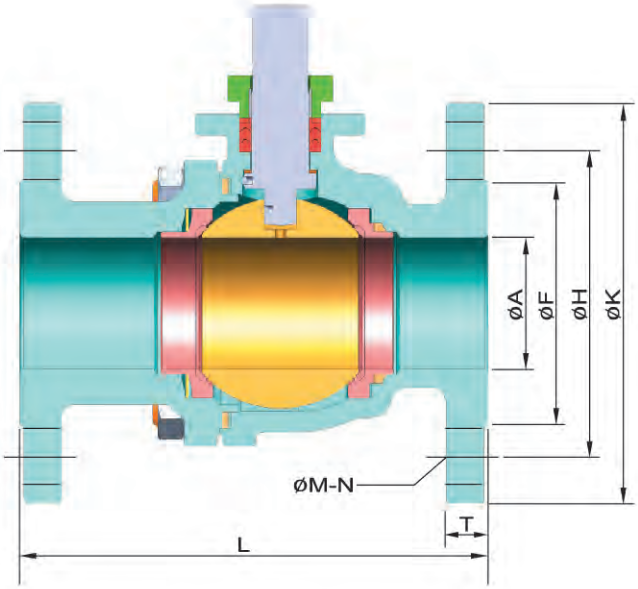
Technical Specifications

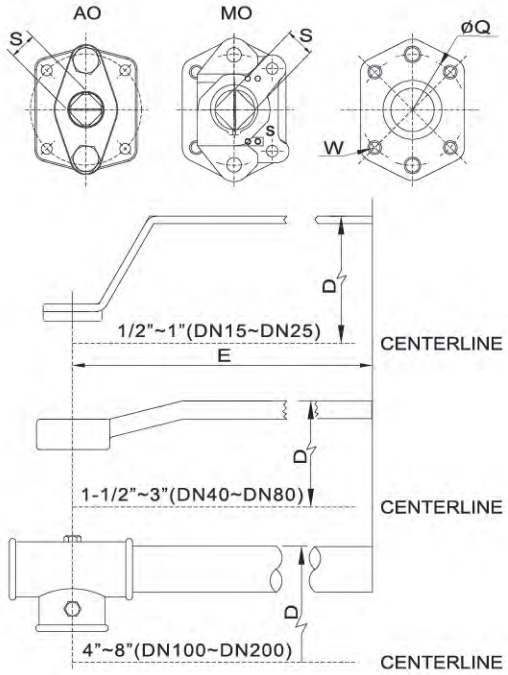
STANDARD MATERIALS 材質表

SERIES		SM			SH		
NO	PART NAME	-20~661°F (-29~350°C)			-20~797°F (-29~425°C)	-20~932°F (-29~500°C)	
1	BODY 閥體	A216-WCB	A351-CF8	A351-CF8M	A216-WCB	A351-CF8	A351-CF8M
2	CAP 閥蓋	A216-WCB	A351-CF8	A351-CF8M	A216-WCB	A194-A351-CF8	A351-CF8M
3	BALL 閥球	A351-CF8+HCR (2)		A351-CF8M+HCR	A351-CF8+TC (2)/CRC (2)		A351-CF8M+TC/CRC
4A	BODY SEAT 閥座	A351-CF8+STELLITE®		A351-CF8M+STELLITE®	A351-CF8+TC/CRC		A351-CF8M+TC/CRC
4B	CAP SEAT 閥蓋閥座	A351-CF8+STELLITE®		A351-CF8M+STELLITE®	A351-CF8+TC/CRC		A351-CF8M+TC/CRC
5A	SEAT GASKET 閥座大薄片	GRAPHITE			GRAPHITE		
5B	SEAT RETAINER 座圈	A351-CF8		A351-CF8M	A351-CF8		A351-CF8M
6	SEAT SPRING 彈片	INCONEL® X-750			INCONEL® X-750		
7	BODY GASKET 大薄片	316SS+GRAPHITE			316SS+GRAPHITE		
8	BOLT&NUT 螺栓&螺帽	A193-B7 & A194-7	A193-B8 & A194-8		A193-B7 & A194-7	A193-B8 & A194-8	
9	THRUST WASHER 小薄片	METAL+HARD FACE			METAL+HARD FACE		
10	GLAND PACKING 中口迫緊	GRAPHITE			GRAPHITE		
11	STEM 閥桿	A564-630(HH1150)		A638-S66286	A638-S66286		
12	GLAND (1) 壓蓋	A351-CF8			A351-CF8		
13	GLAND BOLT 牛楠螺絲	STAINLESS STEEL			STAINLESS STEEL		
14	SNAP CATCH (MO)扣環	AISI 420			AISI 420		
15	TRAVEL STOP(MO)檔片	A240-304			A240-304		
16	HANDLE (MO) 手柄	A240-304(1/2"~1") FCD45 (1-1/2"~3") FCD45+SGP(4" AND ABOVE)					
17	GLAND BEARING 牛楠襯套	A240-316+PTFE			A240-316+PTFE		

The above materials may be changed with different using conditions.
以上閥門部件的材質為標準配置,可根據客戶需求和工況選擇其他材質

NOTES:
(1) Options: AO: Automation / MO: Manual
(2) HCR = Hard Chrome 鍍硬鉻 TC = Tungsten Carbide 碳化鎢噴塗 CRC = Chrome Carbide





DIMENSIONS (JIS-10K) (mm)

Size		A	F	H	K	M	N	L	T	S	Q	W	D	E	Wt (Kg)
15	1/2"	15	51	70	95	15	4	108	12	10	42	M5	97	130	1.8
20	3/4"	20	56	75	100	15	4	117	14	10	42	M5	100	130	2.2
25	1"	25	67	90	125	19	4	127	14	12	50	M6	110	160	3.2
40	1-1/2"	38	81	105	140	19	4	165	16	17	70	M8	115	224	6.3
50	2"	50	96	120	155	19	4	178	16	17	70	M8	120	224	9.0
65	2-1/2"	65	116	140	175	19	4	190	18	20	70	M8	140	324	13.2
80	3"	76	126	150	185	19	8	203	18	20	70	M8	150	324	17.4
100	4"	100	151	175	210	19	8	229	18	27	102	M10	220	400	28.2
125	5"	125	182	210	250	23	8	356	20	27	102	M10	240	550	44.0
150	6"	150	212	240	280	23	8	394	22	32	125	M12	280	550	62.5
200	8"	200	262	290	330	23	12	457	22	35	140	M16	340	1000	128.5

DIMENSIONS (JIS-20K) (mm)

Size		A	F	H	K	M	N	L	T	S	Q	W	D	E	Wt (Kg)
15	1/2"	15	51	70	95	15	4	140	14	10	42	M5	97	130	2.5
20	3/4"	20	56	75	100	15	4	152	16	10	42	M5	100	130	3.5
25	1"	25	67	90	125	19	4	165	16	12	50	M6	110	160	4.9
40	1-1/2"	38	81	105	140	19	4	190	18	17	70	M8	115	224	9.8
50	2"	50	96	120	155	19	8	216	18	17	70	M8	120	224	12.2
65	2-1/2"	65	116	140	175	19	8	241	20	20	70	M8	140	324	22.4
80	3"	76	132	160	200	23	8	282	22	20	70	M8	150	324	31.2
100	4"	100	160	185	225	23	8	305	24	27	102	M10	220	400	48.0
150	6"	150	230	260	305	25	12	403	28	32	125	M12	280	550	98.3
200	8"	200	275	305	350	25	12	502	30	35	140	M16	340	1000	171.1

DIMENSIONS (ASME CLASS-150) (mm)

Size		A	F	H	K	M	N	L	T	S	Q	W	D	E	Wt (Kg)
15	1/2"	15	35	60.5	89	16	4	108	11.2	10	42	M5	97	130	1.8
20	3/4"	20	43	70	98	16	4	117	11.2	10	42	M5	100	130	2.2
25	1"	25	51	79.5	108	16	4	127	11.2	12	50	M6	110	160	3.2
40	1-1/2"	38	73	98.5	127	16	4	165	14.3	17	70	M8	115	224	6.3
50	2"	50	92	120.5	152	19	4	178	15.9	17	70	M8	120	224	9.0
65	2-1/2"	65	105	139.5	178	19	4	190	17.5	20	70	M8	140	324	13.2
80	3"	76	127	152.5	190	19	4	203	19.1	20	70	M8	150	324	17.4
100	4"	100	157	190.5	229	19	8	229	23.9	27	102	M10	220	400	28.2
125	5"	125	186	216	254	22	8	356	23.9	27	102	M10	240	550	44.0
150	6"	150	216	241.5	279	22	8	394	25.4	32	125	M12	280	550	62.5
200	8"	201	270	298.5	343	22	8	457	28.6	35	140	M16	340	1000	128.5

The weight refers to bare shaft valves.
表中重量為裸閥重量

DIMENSIONS (ASME CLASS-300) (mm)

SIZE		A	F	H	K	M	N	L	T	S	Q	W	D	E	Wt (Kg)
15	1/2"	15	35	66.5	95	16	4	140	14.3	10	42	M5	97	130	2.5
20	3/4"	20	43	82.5	117	19	4	152	15.9	10	42	M5	100	130	3.5
25	1"	25	51	89	124	19	4	165	17.5	12	50	M6	110	160	4.9
40	1-1/2"	38	73	114.5	156	22	4	190	20.7	17	70	M8	115	224	9.8
50	2"	50	92	127	165	19	8	216	22.3	17	70	M8	120	224	12.2
65	2-1/2"	65	105	149	190	22	8	241	25.4	20	70	M8	140	324	22.4
80	3"	76	127	168	210	22	8	282	28.6	20	70	M8	150	324	31.2
100	4"	100	157	200	254	22	8	305	31.8	27	102	M10	220	400	48.0
125	5"	125	186	235	280	22	8	381	35.2	32	125	M12	260	550	67.1
150	6"	150	216	270	318	22	12	403	36.6	32	125	M12	280	550	98.3
200	8"	201	270	330	381	25	12	502	41.2	35	140	M16	340	1000	171.1

DIMENSIONS (ASME CLASS-600) (mm)

SIZE		A	F	H	K	M	N	L	T	S	Q	W	D	E	Wt (Kg)
15	1/2"	15	35	66.5	95	16	4	165	20.9	10	42	M5	97	130	2.6
20	3/4"	20	43	82.5	117	19	4	190	22.3	10	42	M5	100	130	4.0
25	1"	25	51	89	124	19	4	216	23.9	12	50	M6	110	160	5.9
40	1-1/2"	38	73	114.5	156	22	4	241	28.7	17	70	M8	115	224	11.8
50	2"	50	92	127	165	19	8	292	31.8	17	70	M8	130	224	16.9
65	2-1/2"	65	105	149.5	191	22	8	330	35	22	102	M10	190	324	29.9
80	3"	76	127	168	210	22	8	356	38.2	22	102	M10	200	324	36.0
100	4"	100	157	216	273	25	8	432	44.5	27	125	M12	240	550	67.0

DIMENSIONS (DIN PN16) (mm)

SIZE		A	F	H	K	M	N	L		T	S	Q	W	D	E	Wt (Kg)	
								S1	S27							S1	S27
DN 15~DN 50 USE PN40																	
65	2-1/2"	65	122	145	185	18	8	290	170	18	20	70	M8	140	324	14.9	13.2
80	3"	76	138	160	200	18	8	310	180	20	20	70	M8	150	324	19.4	17.4
100	4"	100	158	180	220	18	8	350	190	20	27	102	M10	220	400	32.1	28.2
150	6"	150	212	240	285	22	8	480	350	22	32	125	M12	280	550	67.9	62.5
200	8"	201	268	295	340	22	12	600	400	24	35	140	M16	340	1000	141	128.5

DIMENSIONS (DIN PN40) (mm)

SIZE		A	F	H	K	M	N	L		T	S	Q	W	D	E	Wt (Kg)	
								S1	S27							S1	S27
15	1/2"	15	45	65	95	14	4	130	115	16	10	42	M5	97	130	2.6	2.5
20	3/4"	20	58	75	105	14	4	150	120	18	10	42	M5	100	130	3.6	3.5
25	1"	25	68	85	115	14	4	160	125	18	12	50	M6	110	160	5.2	4.9
40	1-1/2"	38	88	110	150	18	4	200	140	18	17	70	M8	115	224	10.4	9.8
50	2"	50	102	125	165	18	4	230	150	20	17	70	M8	120	224	13.0	12.2
65	2-1/2"	65	122	145	185	18	8	290	170	22	20	70	M8	140	324	24.4	22.4
80	3"	76	138	160	200	18	8	310	180	24	20	70	M8	150	324	37.7	31.2
100	4"	100	162	190	235	22	8	350	190	24	27	102	M10	220	400	52.3	48.0
150	6"	150	218	250	300	26	8	480	350	28	32	125	M12	280	550	104.8	98.3
200	8"	201	285	320	375	30	12	600	400	34	35	140	M16	340	1000	187.4	171.1

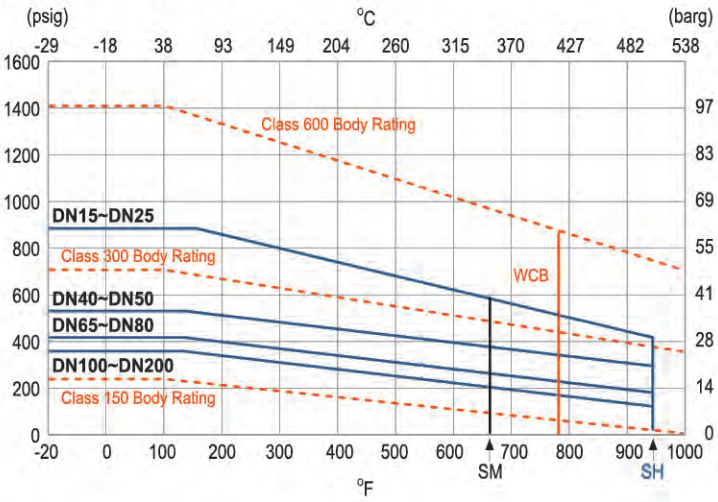
DIMENSIONS (DIN PN100) (mm)

SIZE		A	F	H	K	M	N	L	T	S	Q	W	D	E	Wt (Kg)
								S5							
15	1/2"	15	45	75	105	14	4	165	20	10	42	M5	63	130	2.6
25	1"	25	68	100	140	18	4	216	24	12	50	M6	76	160	4.0
40	1-1/2"	38	88	125	170	22	4	241	26	17	70	M8	88	224	5.9
50	2"	50	102	145	195	26	4	292	28	17	70	M8	94	224	11.8
65	2-1/2"	65	122	170	220	26	8	330	30	20	102	M10	115	324	16.9
80	3"	76	138	180	230	26	8	356	32	20	102	M10	120	324	36.0
100	4"	100	162	210	265	30	8	432	36	27	125	M12	195	400	67.0

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

TEMPERATURE & PRESSURE DIAGRAM
溫度&壓力曲線



SM = MAX TEMPERATURE 661°F (350°C)
SH = MAX TEMPERATURE 932°F (500°C)
WCB = MAX TEMPERATURE 797°F (425°C)

HOW TO ORDER

JBF-M → A → B → C → D → E → F → G

Ex: **JBF-M → C1 → 04 → C → 26 → 050 → IAU → SH1**

A. SPECIFICATION

A1	JIS 10K
A2	JIS 20K
C1	ASME CLASS 150
C2	ASME CLASS 300
C3	ASME CLASS 600
D2	DIN PN16
D4	DIN PN40
D5	DIN PN100

B. BODY MAT'L

02	WCB (1.0619)
03	CF8 (1.4308)
04	CF8M (1.4408)
05	CF3 (1.4306)
06	CF3M (1.4404)
07	CG8M (1.4412)
11	LCB (1.1138)
12	LCC (1.7219)
15	CD3MN (1.4470)

C. BALL & SEAT MAT'L

A	CF8
C	CF8M
D	CF3
E	CF3M
F	CG8M
I	CD3MN

D. STEM MAT'L

10	S31803
22	630
26	S66286

E. SIZE

015	1/2"
020	3/4"
025	1"
040	1-1/2"
050	2"
065	2-1/2"
080	3"
100	4"
125	5"
150	6"
200	8"

F. OPTION

F	FIRE SAFE
L	EXTENDED STEM
I	LIVE LOADING
H	LEVER
G	GEAR
A	BARE SHAFT
U	UNI-DIRECTION
B	BI-DIRECTION
S1	SINGLE SCRAPER (UPSTREAM SIDE)
S2	DOUBLE SCRAPER (UPSTREAM+DOWNSTREAM)

G. TEMPERATURE

SM	-20~661°F(-29~350°C) BALL W/HCR SEAT W/STELLITE®
SH1	-20~842°F(-29~450°C) BALL W/TC SEAT W/TC
SH2	-20~932°F(-29~500°C) BALL W/CRC SEAT W/CRC

HOW TO ORDER

※ Alternative materials are available on request.
*閥內件均做相應的硬化處理,以上內件為基材。

JDV GROUP

■ **HEADQUARTERS**
NO. 6-1, QINGNIAN RD., YANGMEI DIST.,TAOYUAN CITY 326, TAIWAN
TEL +886-3-4965066 FAX +886-3-4963526 E-MAIL: sales@jdv.com.tw

JDV CONTROL VALVES TGT ZUERCHER TECHNIK

6D-0539 DNV·GL ISO 9001:2015 CE 0035

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