



JDV
CONTROL
VALVES

JBFM Series

Floating Type Metal Seat Ball Valve

浮动式金属密封球阀





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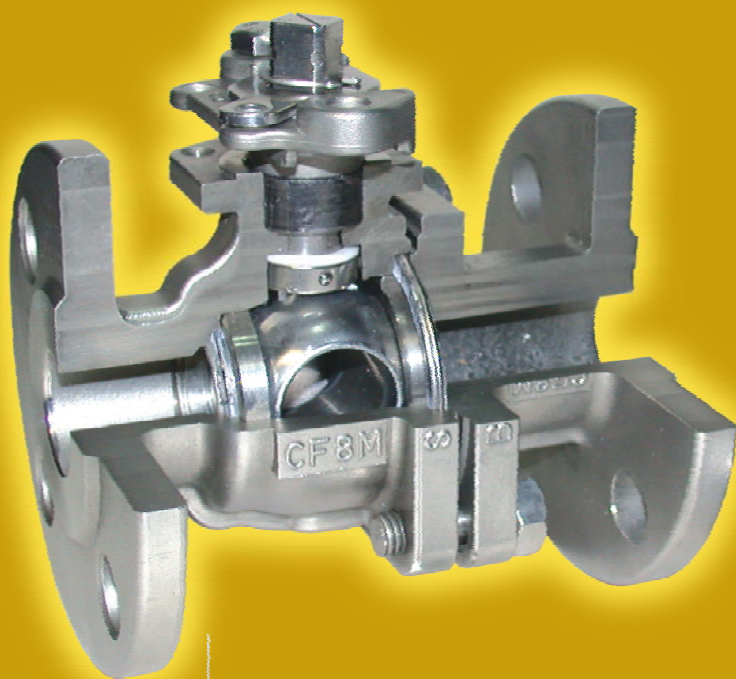
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Floating Type Metal Seat Ball Valve

浮动式金属密封球阀

Full Bore Two-Piece Flanged Ends 全通径两片式法兰连接

JIS 10/20/40K ANSI 150/300/600LB DIN PN10/16/25/40



JBFM系列金属密封球阀适用于高温 磨耗性介质等恶劣环境, 广泛应用于石油 天然气 石化 化工 电力 造纸 采矿 冶金等领域。

Product Features

产品特性

1. 经过高精度加工后的阀球和阀座配合紧密, 泄漏等级可达标准Class V, 特殊订单要求可达Class VI。
2. 上游阀座上安装弹簧缓冲, 即使在低压下也能与阀球保持良好密封。这种设计保证在高压差状况下阀门的开启和关闭动作亦能运作平稳。
3. 防火安全设计符合API 607 4TH标准。
4. 多种材质可选以满足不同的工况。
5. 阀内件经过相应的表面硬化处理后可长期应用于含有高硬质颗粒和其他高磨耗性流体介质。
6. 当管道里存在回压/回流的情况下, 双向密封设计可以保证双向开关/切断作用 (特殊选项)。

Applications

1. Abrasive fluids
2. High temperature/Low temperature environments

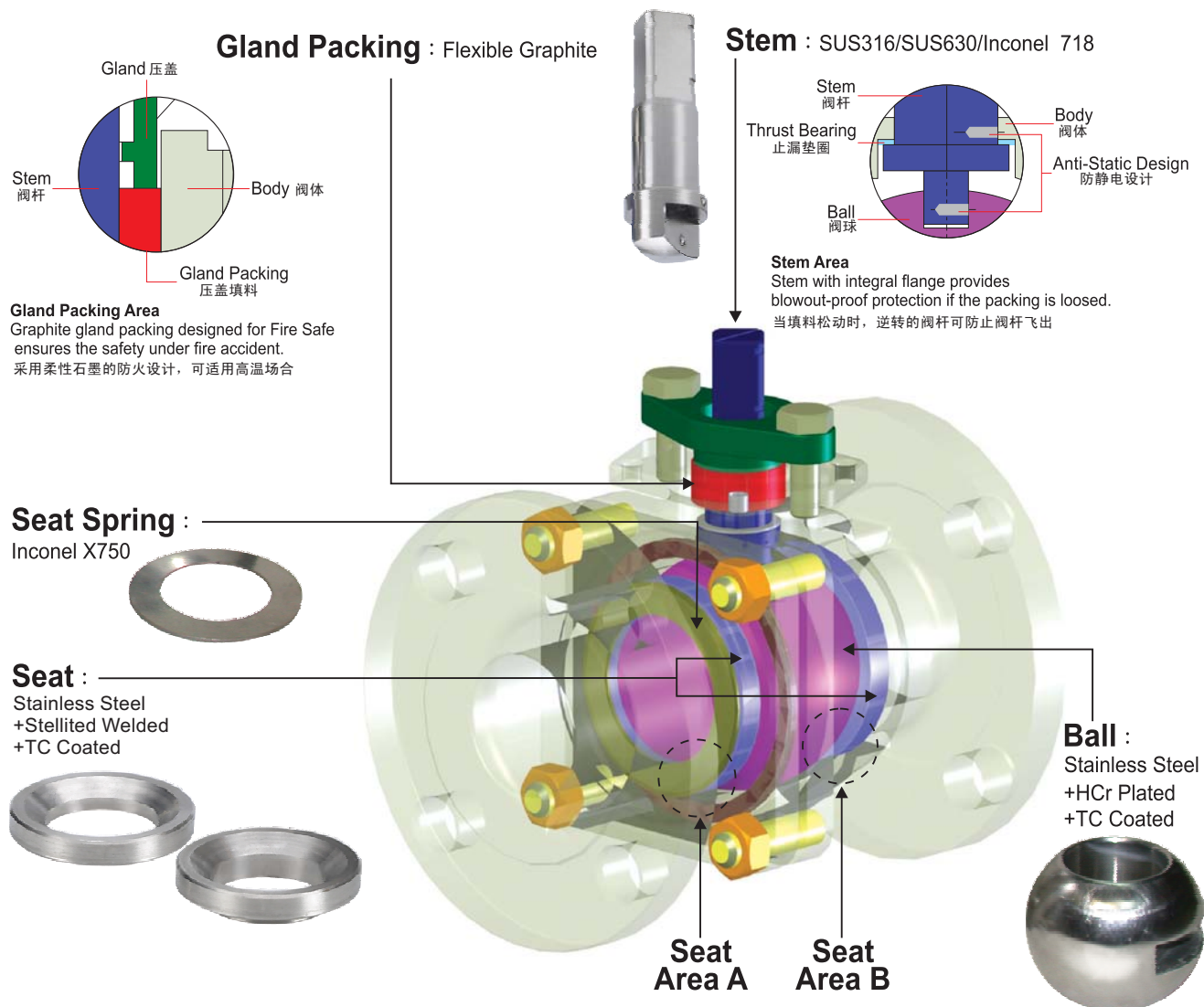
适用场合

1. 研磨性介质
2. 高温/低温工况



HVOF 超音速火焰喷涂技术

Design & Structures



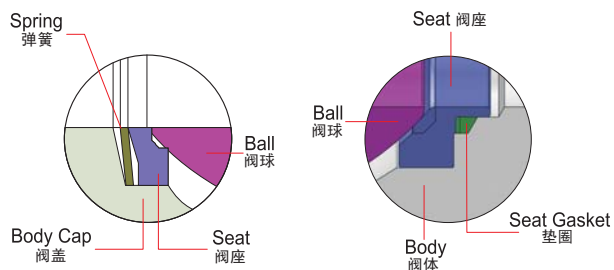
Uni-Direction Design 单向密封设计

Seat Area A(上游侧)

具有弹性的弹簧设计, 当管内压力和温度升高时, 也可保持动作稳定

Seat Area B(下游侧)

垫片采用嵌入阀体设计, 可适用于-29到500摄氏度的温度范围。



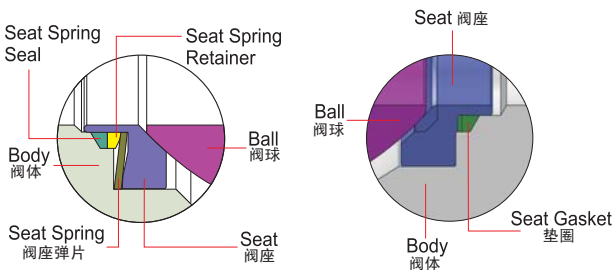
Bi-Direction Design 双向密封设计

Seat Area A(上游侧)

当管道里存在回压和回流的情况下, 阀座弹片密封环可以制止泄漏以保证双向开关/切断作用。
具有弹性的弹簧设计, 当管道内压力和温度升高时, 也可保持动作稳定。

Seat Area B(下游侧)

垫片采用嵌入阀体设计, 可适用于-29到500摄氏度的温度范围。



Applicable Standards 适用标准

- Body material (阀体材质): Standard in WCB, CF8, CF8M
Special material is available according to requirements.
(可根据客户需求提供相应的特殊材质)
- Nominal size (公称直径): 1/2"-8" (DN15-DN200)
- Pressure rating (压力标准): JIS 10/20/40K
ANSI 150/300/600LB DIN PN10/16/25/40
- End connections (端部连接形式): RF
- Temperature Range (温度范围): -29 Deg C to 500 Deg C
- Face-To-Face Dimensions (法兰面间距尺寸):
JIS B2002&ANSI B16.10
- Flange Dimensions (法兰尺寸): JIS B2238 & ANSI B16.5
- Body Pressure Testing (阀体压力测试标准):
JIS B2003 & ANSI B16.34 & API 598
- Seat Leakage Testing (阀座泄漏标准):
NSI B16.104 & FC170-2 CLASS V,
(根据客户特殊要求可达CLASS VI).
- Casting (铸造标准):
MSS-SP-61 & MSS-SP-25 & MSS-SP-55



Technical Specification

MATERIAL 材质表

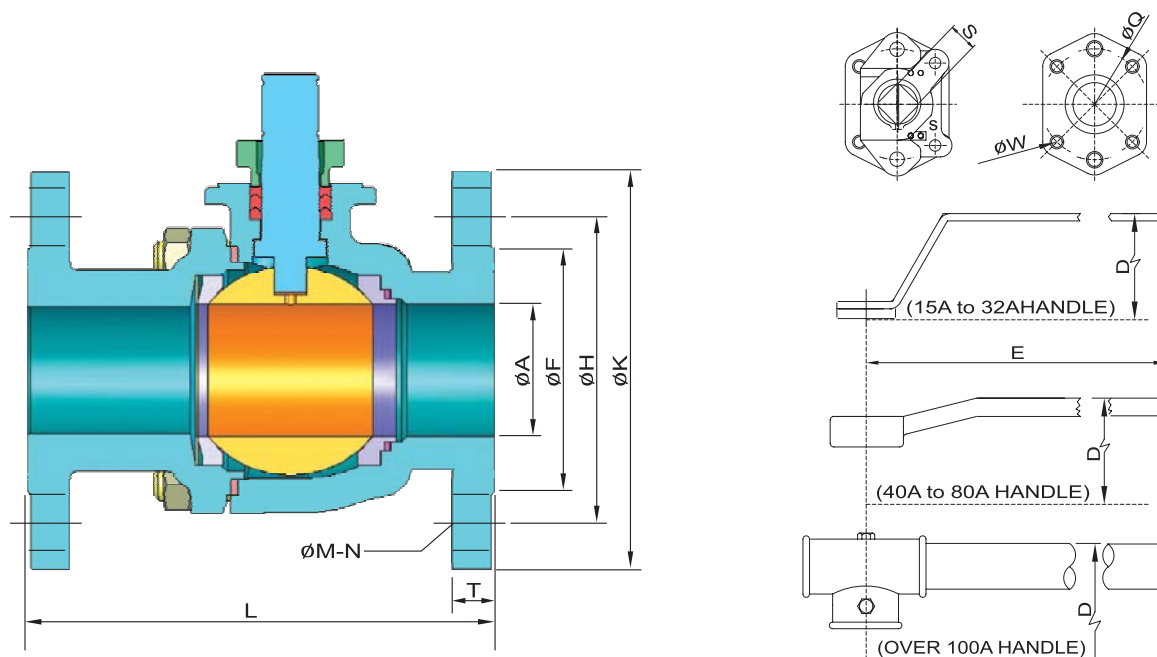
NO	PART NAME	SM			SH		
		-29°C~350°C			-29°C~425°C	500°C	
1	BODY 阀体	WCB	CF8	CF8M	WCB	CF8	CF8M
2	CAP 阀盖	WCB	CF8	CF8M	WCB	CF8	CF8M
3	BALL 球阀	CF8 / CF8M + HCr			CF8 / CF8M + TC		
4	SEAT 阀座	SUS304 / SUS316 + STELLITE			SUS304 / SUS316 + TC		
5	SEAT GASKET	GRAPHITE					
6	SEAT SPRING	INCONEL X750					
7	BODY GASKET	SUS316 + GRAPHITE					
8	BOLT&NUT 螺栓&螺帽	B7&2H	B8&8		B7&2H	B8&8	
9	THRUST WASHER	STAINLESS STEEL					
10	GLAND PACKING	FLEXIBLE GRAPHITE					
11	STEM 阀杆	SUS316/SUS630			INCONEL 718		
12	GLAND 压盖	SUS304					
13	GLAND BOLT	SUS304					

Notes:

HCr = Hard Chrome Plated 镀硬铬

TC = Tungsten Carbide Coated 碳化钨喷涂

Above materials may vary with different using conditions.
以上阀门部件的材质为标准配置, 可根据客户需求和工况选择其他材质



DIMENSION (JBFBM-A1 SERIES JIS-10K)

(M.M.)

Size	A	D	S	E	L	K	T	H	F	M	N	Q	W
15 1/2"	15	63	10	130	108	95	12	70	51	15	4	42	M5
20 3/4"	20	68	10	130	117	100	14	75	56	15	4	42	M5
25 1"	25	76	12	160	127	125	14	90	67	19	4	50	M6
40 1-1/2"	38	88	17	224	165	140	16	105	81	19	4	70	M8
50 2"	50	94	17	224	178	155	16	120	96	19	4	70	M8
65 2-1/2"	65	115	20	324	190	175	18	140	116	19	4	70	M8
80 3"	76	120	20	324	203	185	18	150	126	19	8	70	M8
100 4"	100	195	27	400	229	210	18	175	151	19	8	102	M10
125 5"	125	220	27	550	356	250	20	210	182	23	8	102	M10
150 6"	150	240	27	550	394	280	22	240	212	23	8	102	M12
200 8"	200	300	35	1000	457	330	22	290	262	23	12	140	M16

DIMENSION (JBFBM-A2 SERIES JIS-20K)

(M.M.)

Size	A	D	S	E	L	K	T	H	F	M	N	Q	W
15 1/2"	15	63	10	130	140	95	14	70	51	15	4	42	M5
20 3/4"	20	68	10	130	152	100	16	75	56	15	4	42	M5
25 1"	25	76	12	160	165	125	16	90	67	19	4	50	M6
40 1-1/2"	38	88	17	224	190	140	18	105	81	19	4	70	M8
50 2"	50	94	17	224	216	155	18	120	96	19	8	70	M8
65 2-1/2"	65	115	20	324	241	175	20	140	116	19	8	70	M8
80 3"	76	120	20	324	283	200	22	160	132	23	8	70	M8
100 4"	100	195	27	400	305	225	24	185	160	23	8	102	M10
150 6"	150	240	27	550	403	305	28	260	230	25	12	125	M12
200 8"	200	300	35	1000	502	350	30	305	275	25	12	140	M16

DIMENSION (JBFBM-A3 SERIES JIS-40K)

(M.M.)

Size	A	D	S	E	L	K	T	H	F	M	N	Q	W
15 1/2"	15	63	10	130	165	115	20	80	55	19	4	42	M5
20 3/4"	20	68	10	130	190	120	20	85	60	19	4	42	M5
25 1"	25	76	12	160	216	130	22	95	70	19	4	50	M6
40 1-1/2"	38	120	17	224	241	160	24	120	90	23	4	70	M8
50 2"	50	140	17	224	292	165	26	130	105	19	8	70	M8
80 3"	76	180	22	324	356	210	32	170	140	23	8	70	M8
100 4"	100	240	27	550	432	250	36	205	165	25	8	102	M10

DIMENSION (JBFBM-C1 SERIES ANSI-150LB)

(M.M.)

Size	A	D	S	E	L	K	T	H	F	M	N	Q	W
15 1/2"	15	63	10	130	108	95	11.2	60.5	35	16	4	42	M5
20 3/4"	20	68	10	130	117	98	11.2	70	43	16	4	42	M5
25 1"	25	76	12	160	127	108	11.2	79.5	51	16	4	50	M6
40 1-1/2"	38	88	17	224	165	127	14.3	98.5	73	16	4	70	M8
50 2"	50	94	17	224	178	152	15.9	120.5	92	19	4	70	M8
65 2-1/2"	65	115	20	324	190	178	17.5	139.5	105	19	4	70	M8
80 3"	76	120	20	324	203	190	19.1	152.5	127	19	4	70	M8
100 4"	100	195	27	400	229	210	23.9	190.5	157	19	8	102	M10
125 5"	125	220	27	550	356	254	23.9	216	186	22	8	102	M10
150 6"	150	240	27	550	394	279	25.4	241.5	216	22	8	102	M12
200 8"	200	300	35	1000	457	343	28.6	298.5	270	22	8	140	M16



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DIMENSION (JBFM-C2 SERIES ANSI-300LB) (M.M.)

SIZE		A	D	S	E	L	K	T	H	F	M	N	Q	W
15	1/2"	15	63	10	130	140	95	14.3	66.5	35	16	4	42	M5
20	3/4"	20	68	10	130	152	117	15.9	82.5	43	19	4	42	M5
25	1"	25	76	12	160	165	124	17.5	89	51	19	4	50	M6
40	1-1/2"	38	88	17	224	190	156	20.7	114.5	73	22	4	70	M8
50	2"	50	94	17	224	216	165	22.3	127	92	19	8	70	M8
65	2-1/2"	65	115	20	324	241	190	25.4	149.0	105	22	8	70	M8
80	3"	76	120	20	324	283	210	28.6	168	127	22	8	70	M8
100	4"	100	195	27	400	305	254	31.8	200	157	22	8	102	M10
150	6"	150	240	32	550	403	318	36.6	270	216	22	12	125	M12
200	8"	200	300	35	1000	502	381	41.3	330.2	270	25	12	140	M16

DIMENSION (JBFM-C3 SERIES ANSI-600LB) (M.M.)

SIZE		A	D	S	E	L	K	T	H	F	M	N	Q	W
15	1/2"	15	63	10	130	165	95	20.9	66.5	35	16	4	42	M5
20	3/4"	20	68	10	130	190	117	22.3	82.5	43	19	4	42	M5
25	1"	25	76	12	160	216	124	23.9	89	51	19	4	50	M6
40	1-1/2"	38	120	17	224	241	156	28.7	114.5	73	22	4	70	M8
50	2"	50	140	17	224	292	165	31.8	127	92	19	8	70	M8
80	3"	76	180	22	324	356	210	38.2	168	127	22	8	70	M8
100	4"	100	240	27	550	432	273	44.5	216	157	25	8	102	M10

DIMENSION (JBFM-D1 SERIES DIN PN10) (M.M.)

SIZE	A	D	S	E	L		K	T	H	F	M	N	Q	W	
					F4	F5									
DN 15~DN 50 USE PN40															
DN 65~DN 150 USE PN16															
200	8"	200	300	35	1000		400	340	24	295	268	22	8	140	M16

DIMENSION (JBFM-D2 SERIES DIN PN16) (M.M.)

SIZE		A	D	S	E	L		K	T	H	F	M	N	Q	W
						F4	F5								
DN 15~DN 50 USE PN40															
65	2-1/2"	65	115	20	324	170	270	185	20	145	122	18	4	70	M8
80	3"	76	120	20	324	180	280	200	20	160	138	18	8	70	M8
100	4"	100	195	27	400	190	300	220	20	180	158	18	8	102	M10
150	6"	150	240	32	550		350	285	22	240	212	22	8	125	M12
200	8"	200	300	35	1000		400	340	24	295	268	22	12	140	M16

DIMENSION (JBFM-D3 SERIES DIN PN25) (M.M.)

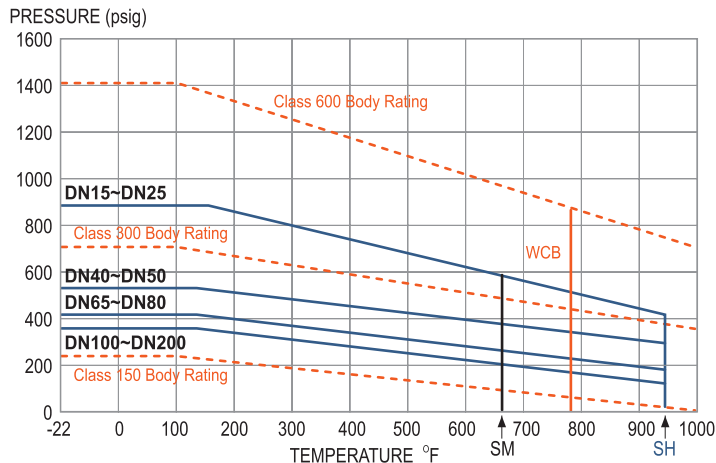
SIZE	A	D	S	E	L		K	T	H	F	M	N	Q	W	
					F4	F5									
DN 15~DN 150 USE PN40															
200	8"	200	300	35	1000		400	360	30	310	278	26	12	140	M16

DIMENSION (JBFM-D4 SERIES DIN PN40) (M.M.)

SIZE		A	D	S	E	L		K	T	H	F	M	N	Q	W
						F4	F5								
15	1/2"	15	63	10	130	115		95	16	65	45	14	4	42	M5
20	3/4"	20	68	10	130	120		105	18	75	58	14	4	42	M5
25	1"	25	76	12	160	125		115	18	85	68	14	4	50	M6
40	1-1/2"	38	88	17	224	140	240	150	18	110	88	18	4	70	M8
50	2"	50	94	17	224	150	250	165	20	125	102	18	4	70	M8
65	2-1/2"	65	115	20	324	170	270	185	22	145	122	18	8	70	M8
80	3"	76	120	20	324	180	280	200	24	160	138	18	8	70	M8
100	4"	100	195	27	400	190	300	235	24	190	162	22	8	102	M10
150	6"	150	240	32	550		350	300	28	250	218	26	8	125	M12
200	8"	200	300	35	1000		400	375	34	320	285	30	12	140	M16

TEMPERATURE & PRESSURE CURVE

温度&压力曲线



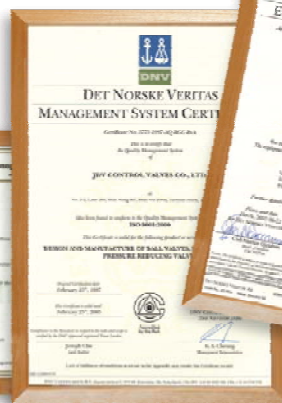
SM = MAX TEMPERATURE 661°F (350°C)

SH = MAX TEMPERATURE 932°F (500°C)

WCB = MAX TEMPERATURE 797°F (425°C)



API 6D



ISO 9001



CE

HOW TO ORDER

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

Ex: **JBFM** → **C1** → **03** → **A** **A** → **050** → **FLH** → **SM**

A. SPECIFICATION	B. BODY MAT'L	C. BALL & STEM MAT'L	D. SEAT MAT'L
A1 JIS 10K	02 WCB	A CF8&304	A CF8
A2 JIS 20K	03 CF8	C CF8M&316	C CF8M
A3 JIS 40K	04 CF8M	D CF3&304L	D CF3
C1 ANSI 150LB	05 CF3	E CF3M&316L	E CF3M
C2 ANSI 300LB	06 CF3M	F CG8M&317	F CG8M
C3 ANSI 600LB	07 CG8M	H CG3M&317L	H CG3M
D1 DIN PN10	08 CG3M		
D2 DIN PN16	11 LCB		
D3 DIN PN25	12 LCC		
D4 DIN PN40			

E. SIZE	F. OPTION	G. TEMPERATURE
015 1/2"	F FIRE SAFE	SM -29°C~ 350°C
020 3/4"	L LONG STEM	SH -29°C~ 500°C
025 1"	I LIFE LOADING	(CARBON STEEL
040 1-1/2"	H LEVER	MAX 425°C)
050 2"	G GEAR	
065 2-1/2"		
080 3"		
100 4"		
125 5"		
150 6"		
200 8"		

* 阀内件均做相应的硬化处理，以上内件为基材。