



JDV
CONTROL
VALVES

JBT / JBTM Series

Trunnion Type **Soft Metal** Seat Ball Valve

固定轴软密封/金属密封球阀





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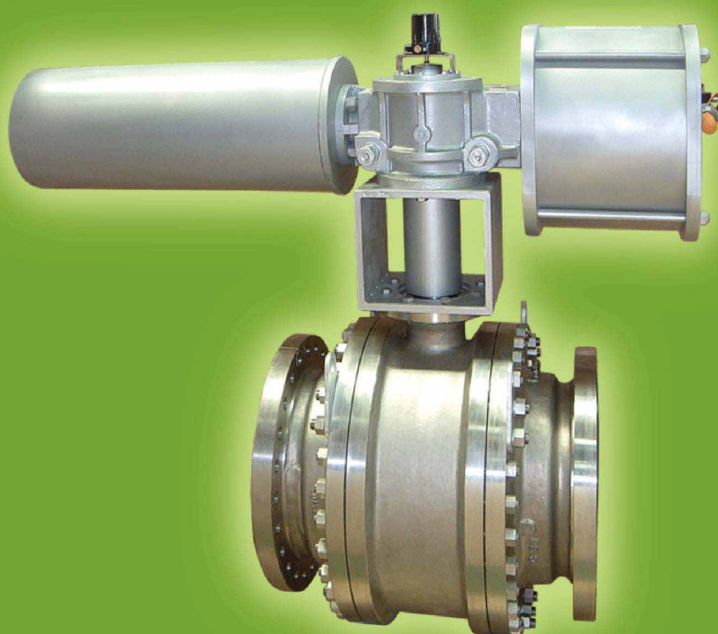
固定轴软密封/金属密封球阀

Full Bore Three Piece Flanged Ends 全通径三片式法兰球阀
ANSI 150/300/600LB

Product Features:

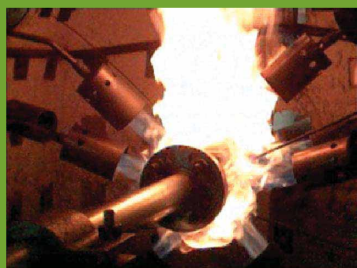
产品特色

1. 阀球固定能够保证阀球运行平稳, 减少操作扭矩
2. 双关双断设计保证阀球完全开启和完全关闭
3. 根据不同情况可选择软密封阀座或金属密封阀座
4. 阀腔自动泄压
5. 防火设计
6. 防中轴飞出设计
7. 防静电设计
8. 挂锁装置(手动)
9. ISO 5211安装平台设计
10. 齿轮装置/执行机构 (选配)

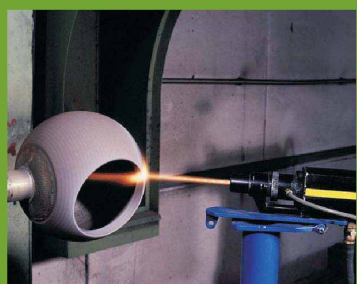


Applicable Standards: 适用标准:

- 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): 2" to 24" (DN50-DN600)
- Pressure rating (压力标准): ANSI 150/300/600LB
- End Connections (端部连接形式): RF, RTJ, BW etc.
- Temperature range for Soft Seat(软密封阀座温度范围): -29°C-250°C
- Temperature range for Metal Seat(金属密封阀座温度范围): -29°C-500°C
- Face-To-Face Dimensions(法兰面间距尺寸): ANSI B16.10
- Flanged Dimensions(法兰尺寸): ANSI B16.5
- Pressure Test Rating (阀体压力测试标准) ANSI B16.34 & API 598
- Seat Leakage (软密封阀座泄漏标准): ANSI B16.34 & API 598 CLASS VI
(硬密封阀座泄漏标准): ANSI 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-25/MSS-SP-55
- Fire Test(防火测试): API 607 4TH EDITION
- NACE MR-01-75



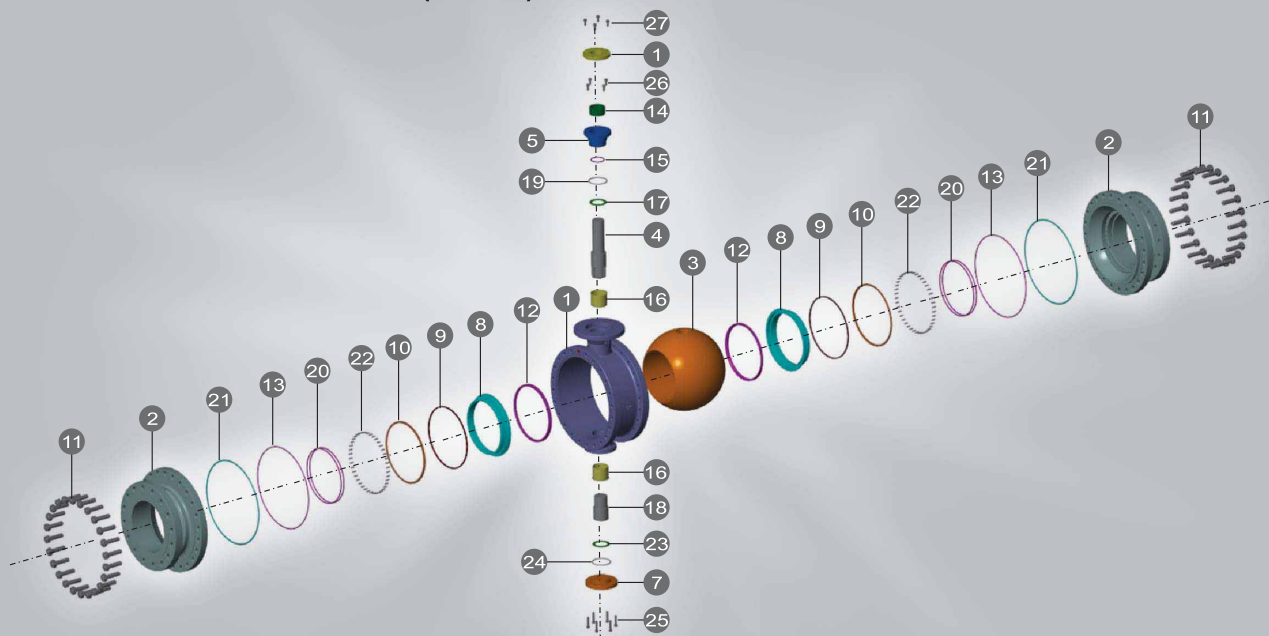
API 607 4th Fire Safe Test



HVOF Thermal Spray

腐蚀工程师协会标准: (可提供) 油田设备抗硫化物应力腐蚀断裂和应力腐蚀纹的金属材料。

JBT SERIES DN50~DN350 (2"~14")

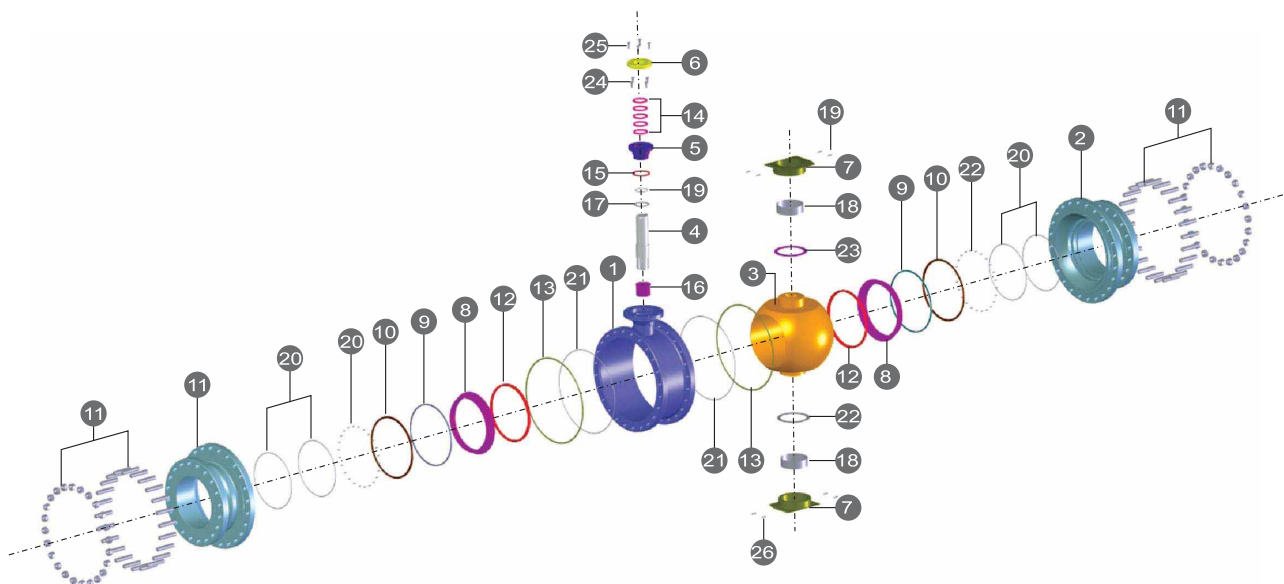


MATERIAL 材质表

NO	PART NAME	MATERIAL		
1	BODY 阀体	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
2	CAP 阀盖	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
3	BALL 阀球	ASTM A351-CF8	ASTM A351-CF8	ASTM A351-CF8M
4	STEM 阀杆	ASTM A182 F304	ASTM A182 F304	ASTM A182 F316
5	BODY GLAND	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
6	GLAND 压盖	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
7	BEARING RETAINER	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
8	SEAT RING 阀座环	ASTM A351-CF8	ASTM A351-CF8	ASTM A351-CF8M
9	SEAT RING SEAL	GRAPHITE	GRAPHITE	GRAPHITE
10	SEAT RING RETAINER	ASTM A351-CF8	ASTM A351-CF8	ASTM A351-CF8M
11	BOLT&NUT 螺栓&螺母	B7 & 2H	B8 & 8	B8 & 8
12	SEAT 阀座	15%G-PTFE/C-PTFE	15%G-PTFE/C-PTFE	15%G-PTFE/C-PTFE
13	BODY GASKET 阀体密封垫	GRAPHITE	GRAPHITE	GRAPHITE
14	GLAND PACKING 压盖填料	15%G-PTFE/GRAPHITE	15%G-PTFE/GRAPHITE	15%G-PTFE/GRAPHITE
15	GLAND THRUST WASHER	15%G-PTFE/GRAPHITE	15%G-PTFE/GRAPHITE	15%G-PTFE/GRAPHITE
16	BEARING	SUS316+TFE	SUS316+TFE	SUS316+TFE
17	STEM THRUST WASHER	SUS316+TFE	SUS316+TFE	SUS316+TFE
18	TRUNNION STEM	ASTM A182 F304	ASTM A182 F304	ASTM A182 F316
19	STEM O-RING	VITON	VITON	VITON
20	SEAT RING O-RING	VITON	VITON	VITON
21	CAP O-RING	VITON	VITON	VITON
22	SPRING	INCONEL X-750	INCONEL X-750	INCONEL X-750
23	TRUNNION STEM WASHER	15%G-PTFE/GRAPHITE	15%G-PTFE/GRAPHITE	15%G-PTFE/GRAPHITE
24	TRUNNION STEM GASKET	15%G-PTFE/GRAPHITE	15%G-PTFE/GRAPHITE	15%G-PTFE/GRAPHITE
25	RETAINER BOLT	CARBON STEEL	STAINLESS STEEL	STAINLESS STEEL
26	GLAND BODY BOLT	CARBON STEEL	STAINLESS STEEL	STAINLESS STEEL
27	GLAND BOLT	CARBON STEEL	STAINLESS STEEL	STAINLESS STEEL

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

JBT SERIES DN400~DN600 (16"~24")

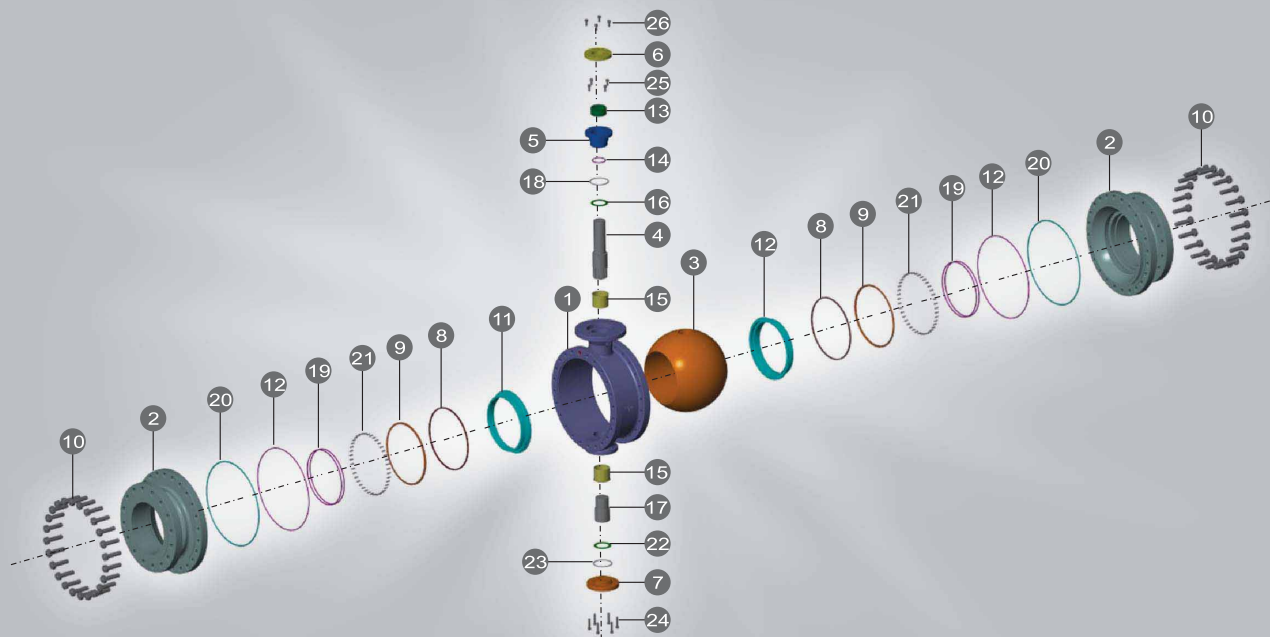


MATERIAL

NO	PART NAME	MATERIAL		
1	BODY 阀体	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
2	CAP 阀盖	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
3	BALL 阀球	ASTM A351-CF8	ASTM A351-CF8	ASTM A351-CF8M
4	STEM 阀杆	ASTM A182 F304	ASTM A182 F304	ASTM A182 F316
5	BODY GLAND	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
6	GLAND	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
7	TRUNNION	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
8	SEAT RING 阀座环	ASTM A351-CF8	ASTM A351-CF8	ASTM A351-CF8M
9	SEAT RING SEAL	15%G-PTFE/GRAPHITE	15%G-PTFE/GRAPHITE	15%G-PTFE/GRAPHITE
10	SEAT RING RETAINER	ASTM A351-CF8	ASTM A351-CF8	ASTM A351-CF8M
11	BOLT&NUT	B7 & 2H	B8 & 8	B8 & 8
12	SEAT 阀座	15%G-PTFE/C-PTFE	15%G-PTFE/C-PTFE	15%G-PTFE/C-PTFE
13	BODY GASKET 阀体密封垫	GRAPHITE	GRAPHITE	GRAPHITE
14	GLAND PACKING 压盖填料	15%G-PTFE/GRAPHITE	15%G-PTFE/GRAPHITE	15%G-PTFE/GRAPHITE
15	GLAND THRUST WASHER	15%G-PTFE/GRAPHITE	15%G-PTFE/GRAPHITE	15%G-PTFE/GRAPHITE
16	BEARING	SUS316+TFE	SUS316+TFE	SUS316+TFE
17	STEM THRUST WASHER	SUS316+TFE	SUS316+TFE	SUS316+TFE
18	TRUNNION BEARING	METAL+PTFE	METAL+PTFE	METAL+PTFE
19	STEM O-RING	VITON	VITON	VITON
20	SEAT RING O-RING	VITON	VITON	VITON
21	CAP O-RING	VITON	VITON	VITON
22	SPRING 弹簧	INCONEL X-750	INCONEL X-750	INCONEL X-750
23	WASHER	15%G-PTFE/GRAPHITE	15%G-PTFE/GRAPHITE	15%G-PTFE/GRAPHITE
24	GLAND BODY BOLT	CARBON STEEL	STAINLESS STEEL	STAINLESS STEEL
25	GLAND BOLT	CARBON STEEL	STAINLESS STEEL	STAINLESS STEEL
26	PIN	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL

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 以上阀门部件的材质为标准配置，可根据客户要求和工况选择其他材质

JBTM SERIES DN50~DN350 (2"~14")



MATERIAL 材质表

NO	PART NAME	MATERIAL		
1	BODY 阀体	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
2	CAP 阀盖	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
3	BALL 阀球	ASTM A351-CF8+HCr/TC	ASTM A351-CF8+HCr/TC	ASTM A351-CF8M+HCr/TC
4	STEM 阀杆	ASTM A182 F304	ASTM A182 F304	ASTM A182 F316
5	GLAND BODY	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
6	GLAND	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
7	BEARING RETAINER	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
8	SEAT RING SEAL	GRAPHITE	GRAPHITE	GRAPHITE
9	SEAT RING RETAINER	ASTM A351-CF8	ASTM A351-CF8	ASTM A351-CF8M
10	BOLT&NUT	B7 & 2H	B8 & 8	B8 & 8
11	SEAT 阀座	ASTM A351-CF8+STELLITE/TC	ASTM A351-CF8+STELLITE/TC	ASTM A351-CF8M+STELLITE/TC
12	BODY GASKET 阀座密封垫	GRAPHITE	GRAPHITE	GRAPHITE
13	GLAND PACKING 压盖填料	15%G-PTFE/GRAPHITE	15%G-PTFE/GRAPHITE	15%G-PTFE/GRAPHITE
14	GLAND THRUST WASHER	15%G-PTFE/GRAPHITE	15%G-PTFE/GRAPHITE	15%G-PTFE/GRAPHITE
15	BEARING	SUS316+TFE/HCr	SUS316+TFE/HCr	SUS316+TFE/HCr
16	STEM THRUST WASHER	SUS316+TFE/HCr	SUS316+TFE/HCr	SUS316+TFE/HCr
17	TRUNNION STEM	ASTM A182 F304	ASTM A182 F304	ASTM A182 F316
18	STEM O-RING	-	-	-
19	SEAT RING O-RING	-	-	-
20	CAP O-RING	-	-	-
21	SPRING 弹簧	INCONEL X-750	INCONEL X-750	INCONEL X-750
22	TRUNNION STEM WASHER	CARBON	CARBON	CARBON
23	TRUNNION STEM GASKET	15%G-PTFE/GRAPHITE	15%G-PTFE/GRAPHITE	15%G-PTFE/GRAPHITE
24	RETAINER BOLT	CARBON STEEL	STAINLESS STEEL	STAINLESS STEEL
25	GLAND BODY BOLT	CARBON STEEL	STAINLESS STEEL	STAINLESS STEEL
26	GLAND BOLT	CARBON STEEL	STAINLESS STEEL	STAINLESS STEEL

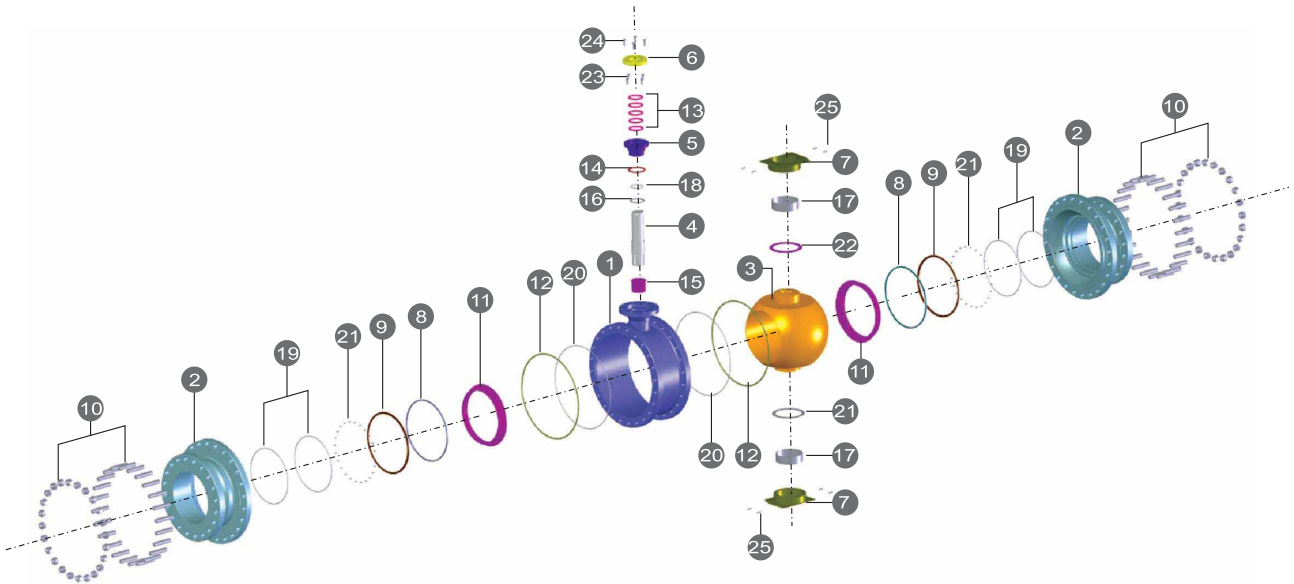
Notes:

HCr = Hard Chrome Plated 镀硬铬

TC = Tungsten Carbide Coated 碳化钨喷涂

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JBTM SERIES DN400~DN600 (16"~24")



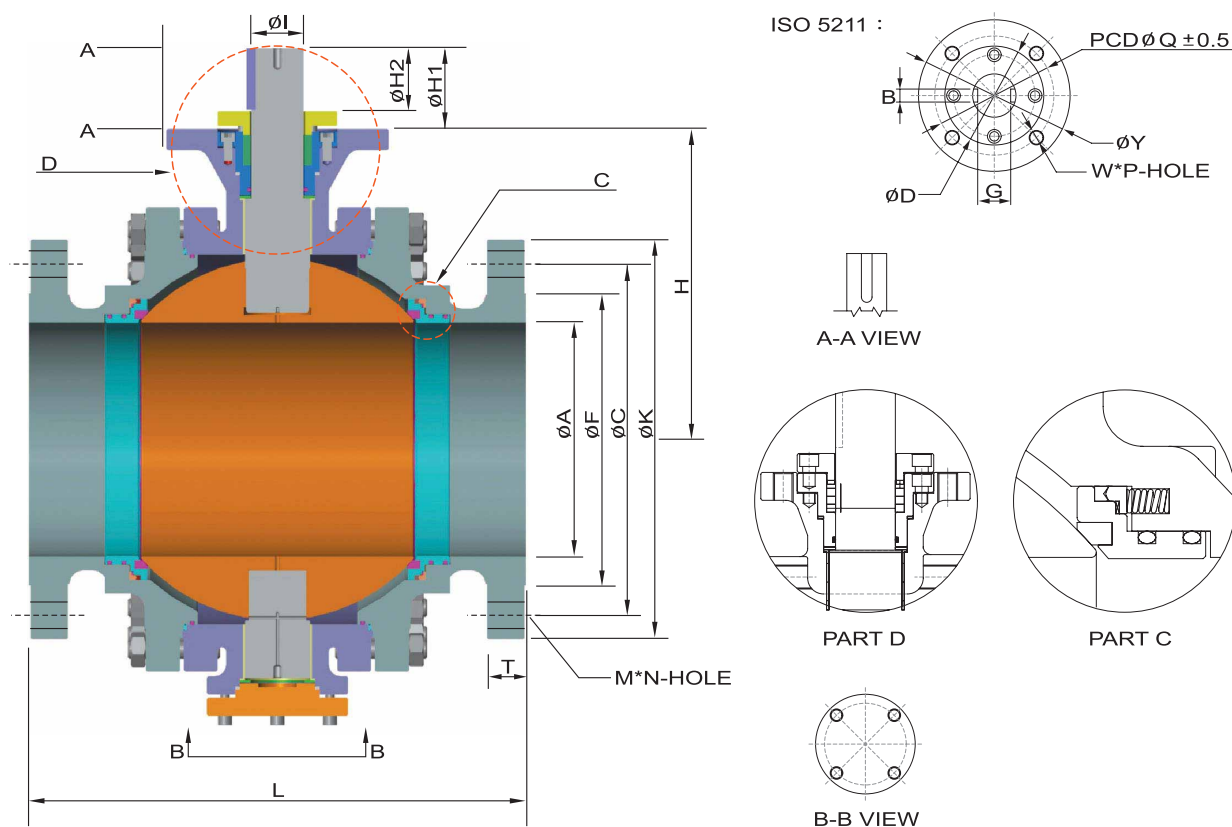
MATERIAL

NO	PART NAME	MATERIAL		
1	BODY 阀体	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
2	CAP 阀盖	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
3	BALL 阀球	ASTM A351-CF8+HCr/TC	ASTM A351-CF8+HCr/TC	ASTM A351-CF8M+HCr/TC
4	STEM 阀杆	ASTM A182 F304	ASTM A182 F304	ASTM A182 F316
5	BODY GLAND	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
6	GLAND	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
7	TRUNNION	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
8	SEAT RING SEAL	GRAPHITE	GRAPHITE	GRAPHITE
9	SEAT RING RETAINER	ASTM A351-CF8	ASTM A351-CF8	ASTM A351-CF8M
10	BOLT&NUT	B7 & 2H	B8 & 8	B8 & 8
11	SEAT 阀座	ASTM A351-CF8+TC	ASTM A351-CF8+TC	ASTM A351-CF8M+TC
12	BODY GASKET 阀体密封垫	GRAPHITE	GRAPHITE	GRAPHITE
13	GLAND PACKING 压盖填料	15%G-PTFE/GRAPHITE	15%G-PTFE/GRAPHITE	15%G-PTFE/GRAPHITE
14	GLAND THRUST WASHER	15%G-PTFE/GRAPHITE	15%G-PTFE/GRAPHITE	15%G-PTFE/GRAPHITE
15	BEARING	SUS316+TFE/TC	SUS316+TFE/TC	SUS316+TFE/TC
16	STEM THRUST WASHER	SUS316+TFE/TC	SUS316+TFE/TC	SUS316+TFE/TC
17	TRUNNION BEARING	CARBON	CARBON	CARBON
18	STEM O-RING	-	-	-
19	SEAT RING O-RING	-	-	-
20	CAP O-RING	-	-	-
21	SPRING 弹簧	INCONEL X-750	INCONEL X-750	INCONEL X-750
22	WASHER	CARBON	CARBON	CARBON
23	GLAND BODY BOLT	CARBON STEEL	STAINLESS STEEL	STAINLESS STEEL
24	GLAND BOLT	CARBON STEEL	STAINLESS STEEL	STAINLESS STEEL
25	PIN	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL

Notes:

HCr = Hard Chrome Plated 镀硬铬
TC = Tungsten Carbide Coated 碳化钨喷涂

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JBT / JBTM SERIES DN50~DN350 (2"~14")

DIMENSION (ANSI-150LB FLANGED)
(M.M.)

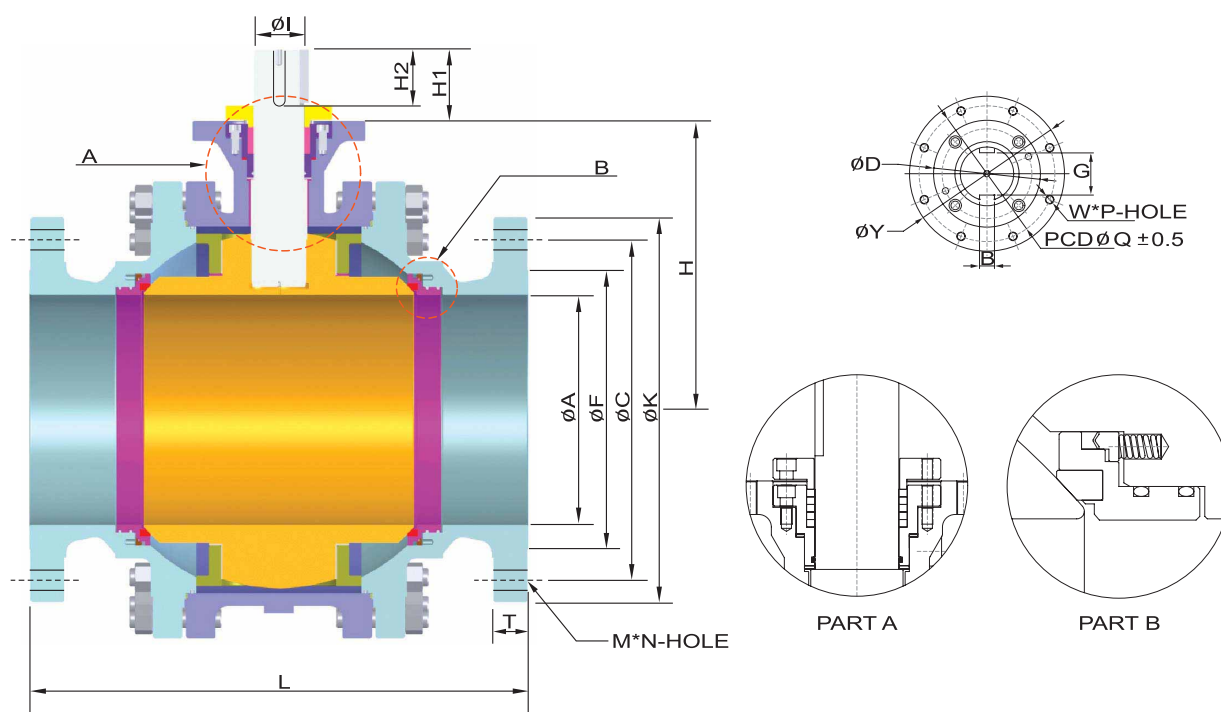
SIZE	ϕA	ϕF	ϕC	ϕK	L	T	H	$H1$	$H2$	M	N	Q	W	ϕI	B	G	P	Y	D
50 2"	50	92	120.6	152	177.8	19.1	120	50	30	19	4	102	M10	27	8	17	4	130	80
80 3"	76	127	152.5	190	203.2	23.9	155	56.5	36	19	4	102	M10	36.3	10x2	23.7	4	130	88
100 4"	100	157	190.5	229	228.6	23.9	181	84	60	19	8	125	M12	40	10	30	4	153	102
150 6"	150	216	241.5	279	393.7	25.4	235	91	66	22	8	165	M20	48	12x2	38	4	210	124
200 8"	200	270	298.5	343	457.2	28.6	300	95	74	22	8	165	M20	60	18	46	4	210	128
250 10"	250	324	362	406	533.4	30.2	340	95	74	25	12	165	M20	60	18	46	4	210	128
300 12"	300	381	432	483	609.6	31.8	405	105	85	25	12	254	M16	70	20	55	8	290	156
350 14"	334	413	476.5	533	685.8	35.0	450	110	90	29	12	254	M16	75	22	57	8	290	170

DIMENSION (ANSI-300LB FLANGED)
(M.M.)

SIZE	ϕA	ϕF	ϕC	ϕK	L	T	H	$H1$	$H2$	M	N	Q	W	ϕI	B	G	P	Y	D
50 2"	50	92	127	165	216	22.3	120	50	30	19	8	102	M10	27	8	17	4	130	80
80 3"	76	127	168	210	282	28.6	155	56.5	36	22	8	102	M10	36.3	10x2	23.7	4	130	88
100 4"	100	157	200	254	304.8	31.8	180	84	60	22	8	125	M12	40	10	30	4	153	102
150 6"	150	216	270	318	404	36.6	235	91	66	22	12	165	M20	48	12x2	38	4	210	124
200 8"	200	270	330	381	503	41.3	300	95	74	25	12	165	M20	60	18	46	4	210	128
250 10"	250	324	387.5	444	569	47.7	340	95	74	29	16	165	M20	60	18	46	4	210	128
300 12"	300	381	451	521	647.7	50.8	405	105	85	32	16	254	M16	70	20	55	8	290	156
350 14"	334	413	514.5	584	762	54.0	450	110	90	32	20	254	M16	75	22	57	8	290	170

DIMENSION (ANSI-600LB FLANGED)
(M.M.)

SIZE	ϕA	ϕF	ϕC	ϕK	L	T	H	$H1$	$H2$	M	N	Q	W	ϕI	B	G	P	Y	D
50 2"	50	92	127	165	292	31.8	120	50	30	19	8	102	M10	27	8	17	4	130	80
80 3"	76	127	168	210	356	38.2	155	56.5	36	22	8	102	M10	36.3	10x2	23.7	4	130	88
100 4"	100	157	216	273	431.8	44.5	180	84	60	25	8	125	M12	40	10	30	4	153	102
150 6"	150	216	292	356	558.8	54.1	235	91	66	29	12	165	M20	48	12x2	38	4	210	124
200 8"	200	270	349	419	660	62	300	95	74	32	12	165	M20	60	18	46	4	210	128
250 10"	250	324	432	508	787	69.9	340	95	74	35	16	165	M20	60	18	46	4	210	128
300 12"	300	381	489	559	838	73.1	405	105	85	35	20	254	M16	70	20	55	8	290	156
350 14"	334	413	527	603	889	76.2	450	110	90	38	20	254	M16	75	22	57	8	290	170

JBT / JBTM SERIES DN400~DN600 (16"~24")

DIMENSION (ANSI-150LB FLANGED)
(M.M.)

SIZE	ØA	ØF	ØC	ØK	L	T	H	H1	H2	M	N	Q	W	ØI	B	G	P	Y	D
400 16"	385	470	539.8	597	762	36.6	487	120	93	29	16	254	M16	85	24	69	8	290	179
450 18"	436	533	578	635	863.6	39.7	531	140	113	32	16	254	M16	100	28	80	8	290	200
500 20"	487	584	653	698	914.5	42.9	582	140	113	32	20	298	M20	110	32	88	8	350	210
600 24"	589	692	749.5	813	1067	47.8	650	140	113	35	20	298	M20	120	32	98	8	350	230

DIMENSION (ANSI-300LB FLANGED)
(M.M.)

SIZE	ØA	ØF	ØC	ØK	L	T	H	H1	H2	M	N	Q	W	ØI	B	G	P	Y	D
400 16"	385	470	571.5	648	838.2	57.2	487	120	94	35	20	254	M16	85	24	69	8	290	179
450 18"	436	533	628.7	711	914.4	60.5	537	140	113	35	24	254	M16	100	28	80	8	290	200
500 20"	487	584	686	775	990.6	63.5	590	140	113	35	24	298	M20	110	32	88	8	350	210
600 24"	589	692	813	914	1092.5	69.9	650	140	133	41	24	298	M20	120	32	98	8	350	230

DIMENSION (ANSI-600LB FLANGED)
(M.M.)

SIZE	ØA	ØF	ØC	ØK	L	T	H	H1	H2	M	N	Q	W	ØI	B	G	P	Y	D
400 16"	385	470	603.3	686	990.5	82.6	487	120	94	41	20	254	M16	85	24	69	8	290	179
450 18"	436	533.5	654	743	1092.5	89	537	140	113	45	20	254	M16	100	28	80	8	290	200
500 20"	487	584	724	813	1194	95.3	590	140	113	45	24	298	M20	110	32	88	8	350	210
600 24"	589	692	838.2	940	1397	108	650	140	113	51	24	298	M20	120	32	98	8	350	230



JDV CONTROL VALVES



API 6D

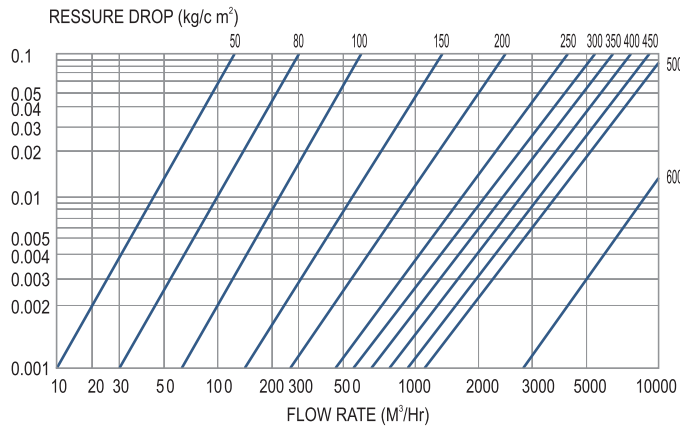


ISO 9001

CE

PRESSURE DROP vs FLOW RATE 压降vs流量

FULL BORE BALL VALVE 全通径球阀

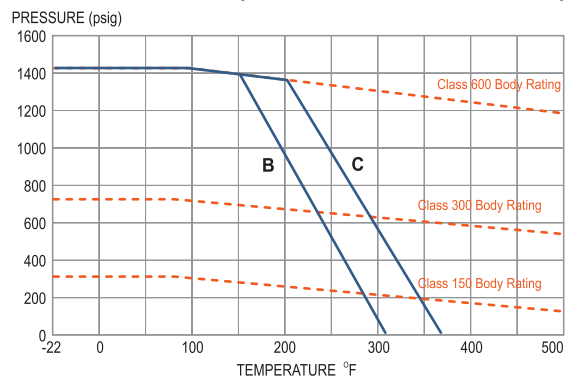


Cv VALUE CV值

SIZE(MM)	50	80	100	150	200	250	300	350	400	450	500	600
150#	500	1350	2500	5300	10500	17500	26300	31850	43300	57300	74500	112300
300#	460	1150	2200	5290	9600	16750	25500	30050	41700	55300	72300	109150
600#	400	1050	1850	4460	8730	14250	22550	28400	38150	50950	65600	98150

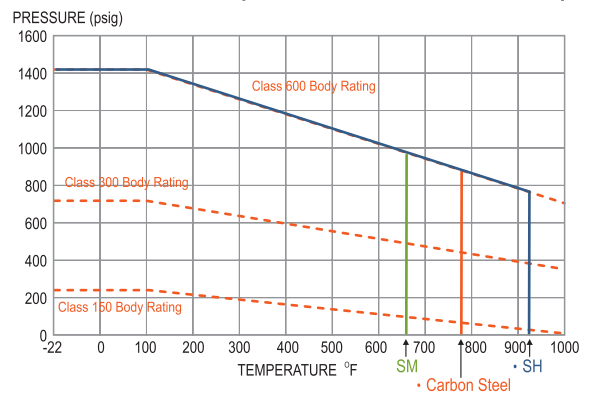
TEMPERATURE & PRESSURE CURVE 温度&压力曲线

DN50~DN600(Class 150 & 300 & 600)



B= Glass Fiber PTFE
C= Carbon Fiber PTFE

DN50~DN600(Class 150 & 300 & 600)



SM= Max Temperature 661°F (350°C)
SH= Max Temperature 932°F (500°C)
Carbon Steel Max Temperature 797°F (425°C)

HOW TO ORDER

如何订购

JBT → A → B C D → E → F → G

Ex: JBT → C1 → 04 C G → 250 → FGES → RF

A. SPECIFICATION	B. BODY MAT'L	C. BALL & STEM MAT'L	D. SEAT MAT'L
C1 ANSI 150LB	02 WCB	A CF8 & 304	G 15% GLASS FIBER+PTFE
C2 ANSI 300LB	03 CF8	C CF8M & 316	C 15% CARBON+PTFE
C3 ANSI 600LB	04 CF8M	D CF3 & 304L	S 50% SS316+50% PTFE
C4 ANSI 900LB	05 CF3	E CF3M & 316L	T TFM-1600
	06 CF3M	F CG8M & 317	E PEEK
	07 CG8M	H CG3M & 317L	
	08 CG3M		
	11 LCB		
	12 LCC		

E. SIZE	F. OPTION	G. END CONNECTION
050 2"	F FIRE SAFE	RF RF FLANGED
080 3"	L LONG STEM	RT RTJ FLANGED
100 4"	H LEVER	
150 6"	G GEAR	
200 8"	N NACE	
250 10"	ES EMERGENCY GREASE SEALS	
300 12"		
350 14"		
400 16"		
450 18"		
500 20"		
600 24"		

JBTM → A → B → C D → E → F → GH

Ex: JBTM → C1 → 04 C C → 250 → FGES → RFSM

A. SPECIFICATION	B. BODY MAT'L	C. BALL & STEM MAT'L	D. SEAT MAT'L
C1 ANSI 150LB	02 WCB	A CF8 & 304	A CF8
C2 ANSI 300LB	03 CF8	C CF8M & 316	C CF8M
C3 ANSI 600LB	04 CF8M	D CF3 & 304L	D CF3
C4 ANSI 900LB	05 CF3	E CF3M & 316L	E CF3M
C5 ANSI 1500LB	06 CF3M	F CG8M & 317	F CG8M
C6 ANSI 2500LB	07 CG8M	H CG3M & 317L	H CG3M
	08 CG3M		
	11 LCB		
	12 LCC		

E. SIZE	F. OPTION	G. END CONNECTION	H. TEMPERATURE
050 2"	F FIRE SAFE	RF RF FLANGED	SM -29°C ~ 350°C
080 3"	L LONG STEM	RT RTJ FLANGED	SH -29°C ~ 500°C (CARBON STEEL MAX 425°C)
100 4"	H LEVER		
150 6"	G GEAR		
200 8"	N NACE		
250 10"	ES EMERGENCY GREASE SEALS		
300 12"			
350 14"			
400 16"			
450 18"			
500 20"			
600 24"			

*阀内件均做相应的硬化处理，以上内件为基材。



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