



JDV
CONTROL
VALVES

JCT/JCTM Series

3/4-Way Trunnion Type **Soft Metal** Seat Ball Valve

三通/四通固定轴软密封/金属密封球阀





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T/L-Port Full Bore Flanged Ends ANSI 150/300LB

T/L型全通路法兰球阀

JCT/JCTM Series 3/4-Way Ball Valves are designed in soft-seated for general applications and metal-seated for severe conditions such as higher temperature and abrasive fluids in fields of Oil & Gas, Petroleum, Petrochemical, Chemical, Power Generation, Pulp & Paper, Mining industries.

Product Features

产品特性

- 1、固定轴球阀设计在有压降情况下能保持扭矩稳定和减少扭矩值。
- 2、较小尺寸中球阀和阀杆整合设计能延长使用寿命。
- 3、阀座加载弹簧设计平衡球阀使其平稳运转。
- 4、阀座材质选择范围广泛。
- 5、防火设计。
- 6、防静电设计。
- 7、ISO 5211安装平台设计。



Applicable Standards

- 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) : 1-1/2" to 8" (DN40 to DN200)
- Pressure Rating(压力标准) : ANSI 150/300LB
- End Connections(连接方式) : RF, RTJ
- Temperature Range(温度范围) :
JCT系列(软密封) : -29Deg C -180Deg C
JCTM系列(金属密封) : -29Deg C -500Deg C
- Flange Dimension(法兰尺寸) : ANSI B16.5
- Body Pressure Testing(阀体压力测试标准) : API 598
- Seat Leakage Testing(阀座泄漏测试标准) :
JCT系列(软密封) APL 598
JCTM系列(金属密封) ANSI B16.104/FCI 70-2 CLASS V
- Casting(铸造标准) : MSS-SP-25/MSS-SP-55

Design & Structures 设计&结构

JCT/JCTM SERIES DN40~DN100 (1-1/2" ~4")

Integrated Ball & Stem Design

球阀&阀杆整合设计

ISO Mounting Pad Design

ISO安装平台孔位设计

Anti-Static Design 防静电设计

Seat : 阀座

- R-PTFE/TFM-1600/PEEK
- Stainless Steel+HCr/TC

固定轴球阀设计

Trunnion Ball Design :

- Stainless Steel
- Stainless Steel+HCr/TC

Spring Loaded Seat Design

阀座加载弹簧设计

JCT/JCTM SERIES DN125~DN200 (5" ~8")

固定轴球阀设计

Trunnion Ball Design

- Stainless Steel
- Stainless Steel+HCr/TC

ISO Mounting Pad Design

ISO安装平台孔位设计

Anti-Static Design

防静电设计

Seat : 阀座

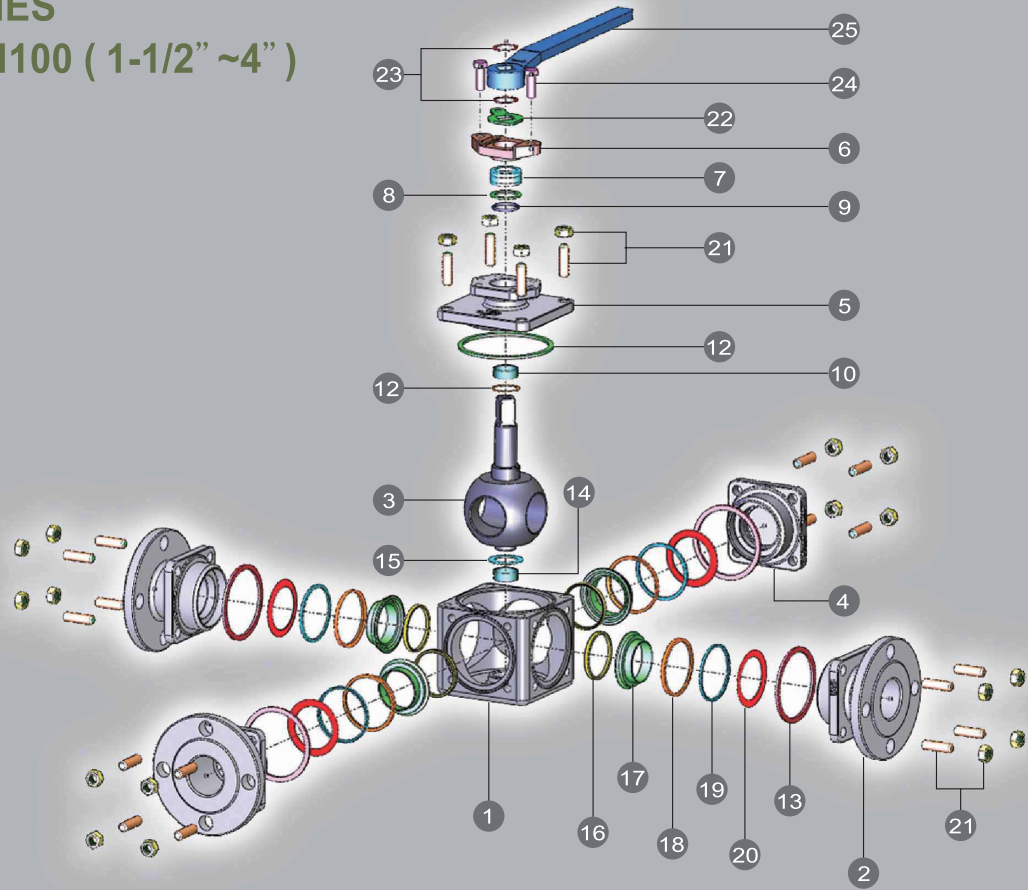
- R-PTFE/TFM-1600/PEEK
- Stainless Steel+HCr/TC

Spring Loaded Seat Design

阀座加载弹簧设计



JCT SERIES DN40~DN100 (1-1/2" ~4")



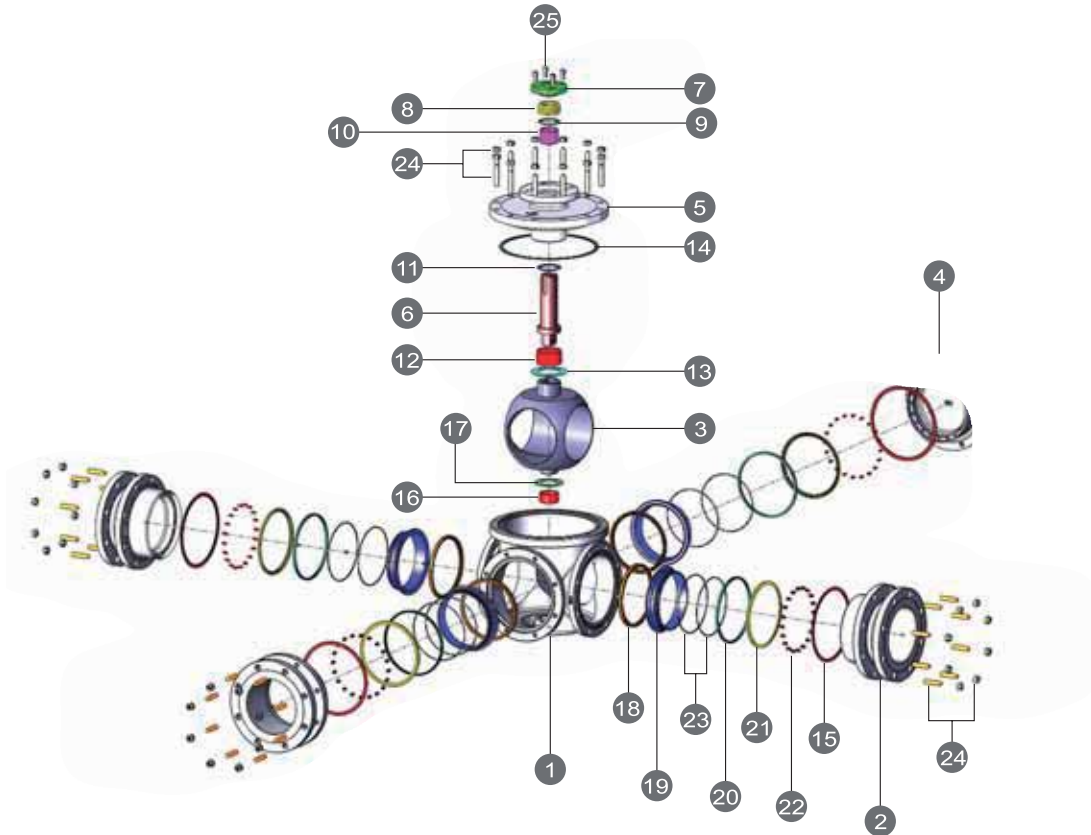
Technical Specification

MATERIAL

NO	PART	NAME	WCB	CF8	CF8M
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-CF8M
4	SIDE COVER	侧阀盖	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
5	TOP COVER	顶阀盖	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
6	GLAND	压盖	ASTM A351-CF8		ASTM A351-CF8M
7	GLAND PACKING		15%G-PTFE/GRAPHITE		
8	GLAND THURST WASHER		SUS316+PTFE		
9	TRUNNION O-RING		VITON		
10	STEM BEARING		SUS316+PTFE		
11	STEM THURST WASHER		SUS316+PTFE		
12	TOP COVER GASKET		SUS316+GRAPHITE		
13	BODY GASKET 阀体密封垫		SUS316+GRAPHITE		
14	TRUNNION BEARING		SUS316+PTFE		
15	TRUNNION WASHER		SUS316+PTFE		
16	SEAT	阀座	R-PTFE / TFM-1600 / PEEK		
17	SEAT RING	阀座环	ASTM A351-CF8		ASTM A351-CF8M
18	SEAT RING SEAL		GRAPHITE		
19	SEAT RING RETAINER		ASTM A351-CF8		ASTM A351-CF8M
20	SPRING	弹片	INCONEL X-750		
21	BOLT & NUT	螺栓&螺母	B7 & 2H	B8 & 8	
22	TRAVEL STOP		SUS304		
23	SNAP CATCH		SUS304		
24	GLAND BOLT		SUS304		
25	HANDLE		FCD45		

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

JCT SERIES DN125~DN200 (5 " ~8 ")



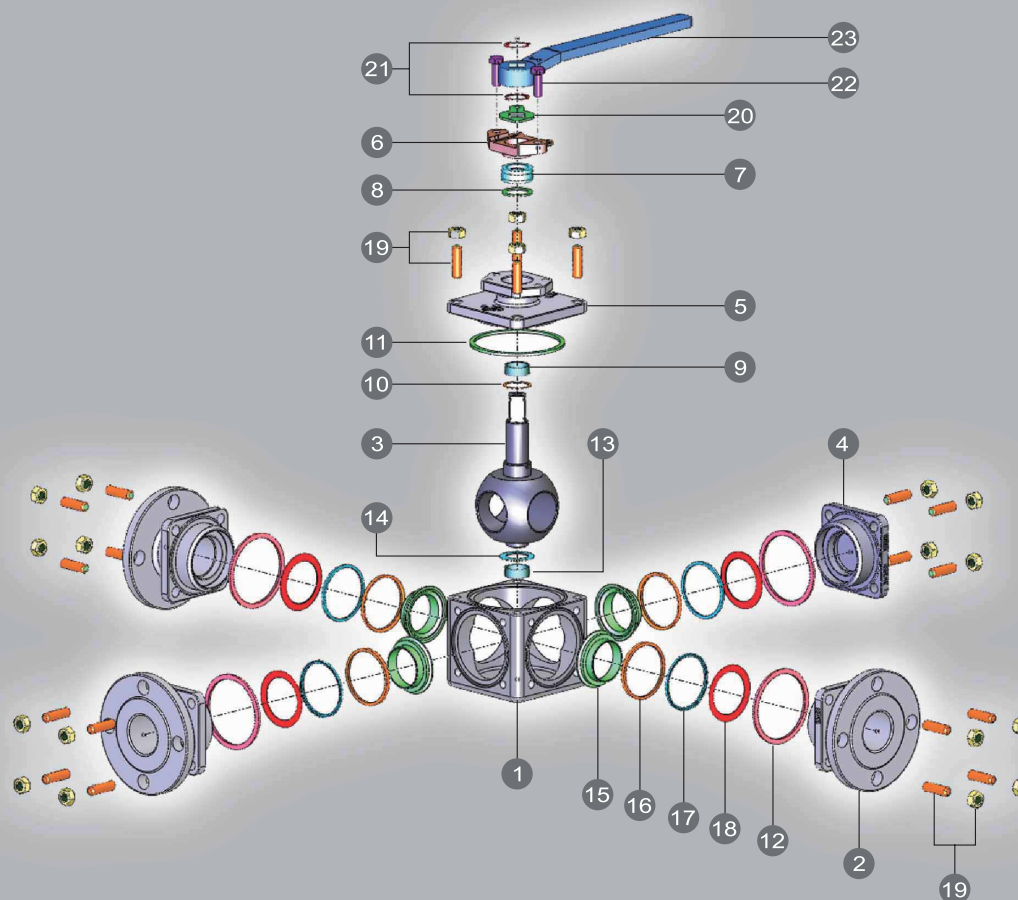
MATERIAL

NO	PART	NAME	WCB	CF8	CF8M
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-CF8M
4	SIDE COVER	侧阀盖	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
5	TOP COVER	顶阀盖	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
6	STEM	阀杆	ASTM A182-F304		ASTM A182-F316
7	GLAND		ASTM A351-CF8		ASTM A351-CF8M
8	GLAND PACKING		15%G-PTFE/GRAPHITE		
9	GLAND THURST WASHER		SUS316+PTFE		
10	STEM BEARING		SUS316+PTFE		
11	STEM THRUST WASHER		SUS316+PTFE		
12	TOP TRUNNION BEARING		SUS316+PTFE		
13	TOP TRUNNION WASHER		SUS316+PTFE		
14	TOP COVER GASKET		SUS316+GRAPHITE		
15	BODY GASKET	阀体密封垫	SUS316+GRAPHITE		
16	TRUNNION BEARING		SUS316+PTFE		
17	TRUNNION WASHER		SUS316+PTFE		
18	SEAT	阀座	R-PTFE / TFM-1600 / PEEK		
19	SEAT RING		ASTM A351-CF8		ASTM A351-CF8M
20	SEAT RING SEAL		GRAPHITE		
21	SEAT RING RETAINER		ASTM A351-CF8		ASTM A351-CF8M
22	SPRING	弹簧	INCONEL X-750		
23	SEAT O-RING		VITON		
24	BOLT & NUT		B7 & 2H	B8 & 8	
25	GLAND BOLT		SUS304		

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JCTM SERIES DN40~DN100 (1-1/2" ~4")



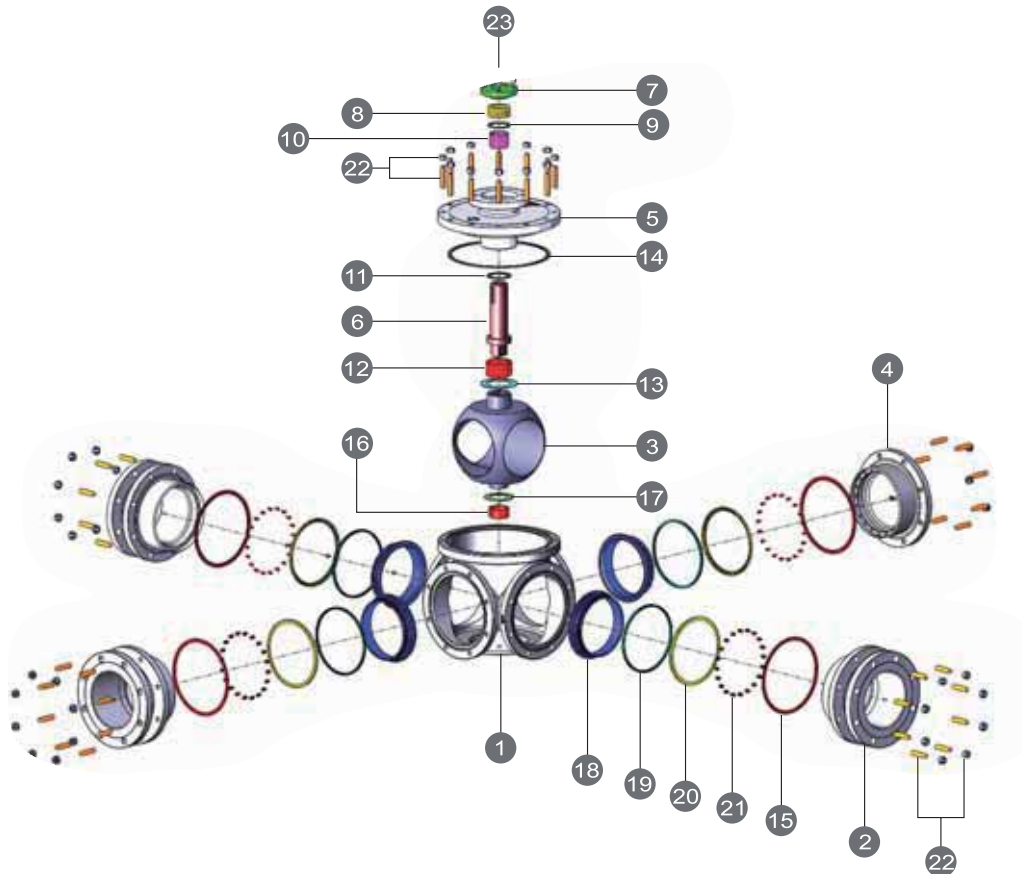
MATERIAL

NO	PART NAME		SM			SH		
			- 29°C ~ 350°C			- 29°C ~ 425°C	- 29°C ~ 500°C	
1	BODY	阀体	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
2	CAP	阀盖	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
3	BALL	阀球	ASTM A351-CF8 / CF8M + HCr			ASTM A351-CF8 / CF8M + TC		
4	SIDE COVER	侧阀盖	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
5	TOP COVER	顶阀盖	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
6	GLAND	压盖	ASTM A351-CF8		ASTM A351-CF8M	ASTM A351-CF8		ASTM A351-CF8M
7	GLAND PACKING		GRAPHITE					
8	GLAND THURST WASHER		ASTM A351-CF8M + HARD FACE					
9	STEM BEARING 阀杆轴承		ASTM A351-CF8M + HARD FACE					
10	STEM THRUST WASHER		ASTM A351-CF8M + HARD FACE					
11	TOP COVER GASKET		SUS316 + GRAPHITE					
12	BODY GASKET 阀体密封垫		SUS316 + GRAPHITE					
13	TRUNNION BEARING		ASTM A351-CF8M + HARD FACE					
14	TRUNNION WASHER		ASTM A351-CF8M + HARD FACE					
15	SEAT 阀座		ASTM A351-CF8 / CF8M + STELLITE			ASTM A351-CF8 / CF8M + TC		
16	SEAT RING SEAL		GRAPHITE					
17	SEAT RING RETAINER		ASTM A351-CF8		ASTM A351-CF8M	ASTM A351-CF8		ASTM A351-CF8M
18	SPRING		INCONEL X-750					
19	BOLT & NUT		B7 & 2H	B8 & 8		B7 & 2H	B8 & 8	
20	TRAVEL STOP		SUS 304					
21	SNAP CATCH		SUS 304					
22	GLAND BOLT		SUS 304					
23	HANDLE		FCD45					

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

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JCTM SERIES DN125~DN200 (5 " ~8 ")



MATERIAL

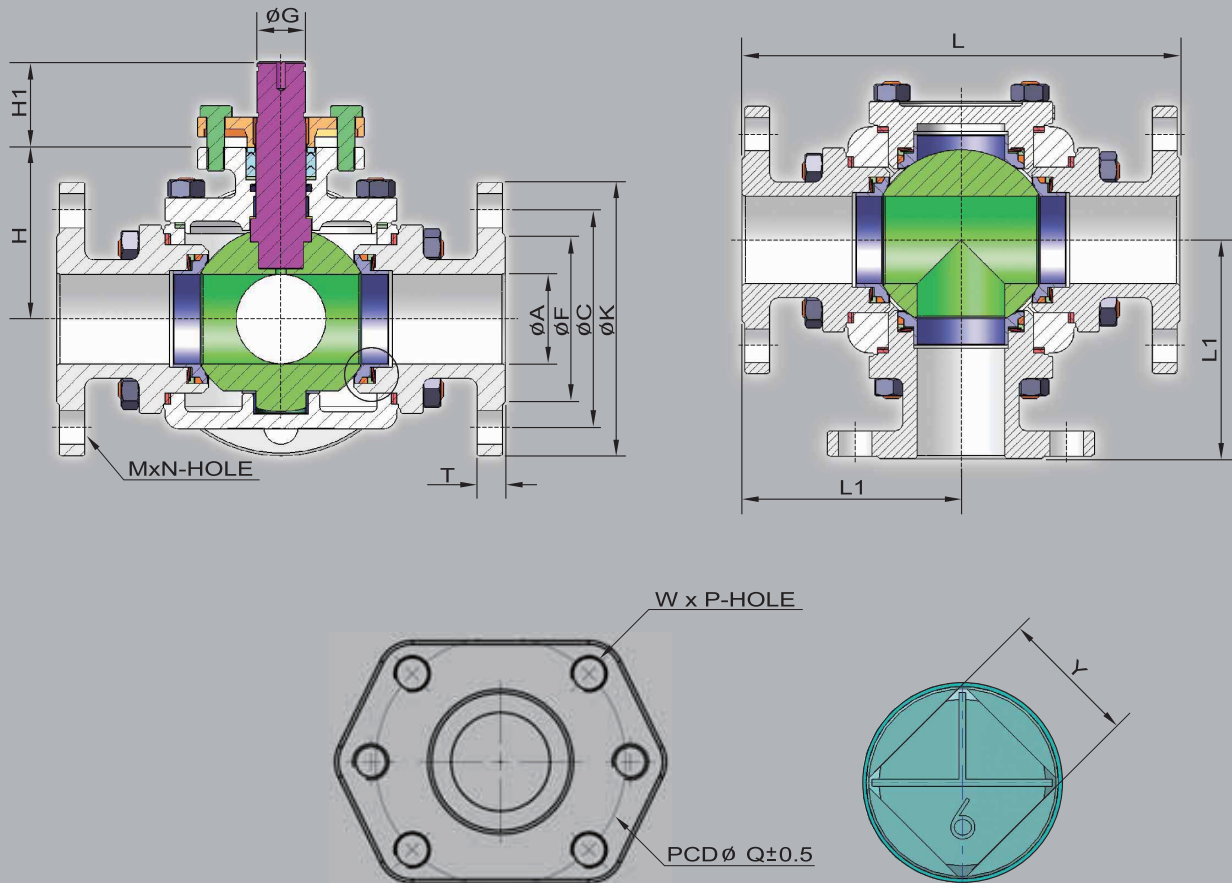
NO	PART NAME	SM			SH		
		- 29°C ~ 350°C			- 29°C ~ 425°C	- 29°C ~ 500°C	
1	BODY 阀体	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
2	CAP 阀盖	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
3	BALL 阀球	ASTM A351-CF8 / CF8M + HCr			ASTM A351-CF8 / CF8M + TC		
4	SIDE COVER 侧阀盖	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
5	TOP COVER 顶阀盖	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
6	STEM 阀杆	SUS316/SUS630			INCONEL 748		
7	GLAND 压盖	ASTM A351-CF8		ASTM A351-CF8M	ASTM A351-CF8		ASTM A351-CF8M
8	GLAND PACKING	GRAPHITE					
9	GLAND THRUST WASHER	ASTM A351-CF8M+HARD FACE					
10	STEM BEARING	ASTM A351-CF8M+HARD FACE					
11	STEM THRUST WASHER	ASTM A351-CF8M+HARD FACE					
12	TOP TRUNNION BEARING	ASTM A351-CF8M+HARD FACE					
13	TOP TRUNNION WASHER	ASTM A351-CF8M+HARD FACE					
14	TOP COVER GASKET	SUS316+GRAPHITE					
15	BODY GASKET	SUS316+GRAPHITE					
16	TRUNNION BEARING	ASTM A351-CF8M+HARD FACE					
17	TRUNNION WASHER	ASTM A351-CF8M+HARD FACE					
18	SEAT 阀座	ASTM A351-CF8 / CF8M + STELLITE			ASTM A351-CF8 / CF8M + TC		
19	SEAT RING SEAL	GRAPHITE					
20	SEAT RING RETAINER	ASTM A351-CF8		ASTM A351-CF8M	ASTM A351-CF8		ASTM A351-CF8M
21	SPRING	INCONEL X-750					
22	BOLT & NUT	B7 & 2H		B8 & 8	B7 & 2H		B8 & 8
23	GLAND BOLT	SUS304					

Above materials may vary with different using conditions.
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**JDV
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VALVES**

JCT / JCTM SERIES DN40~DN100 (1-1/2" ~4")



DIMENSION (JCT/JCTM-C1 SERIES ANSI-150LB FLANGED)

(M.M.)

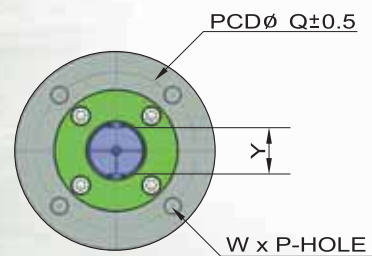
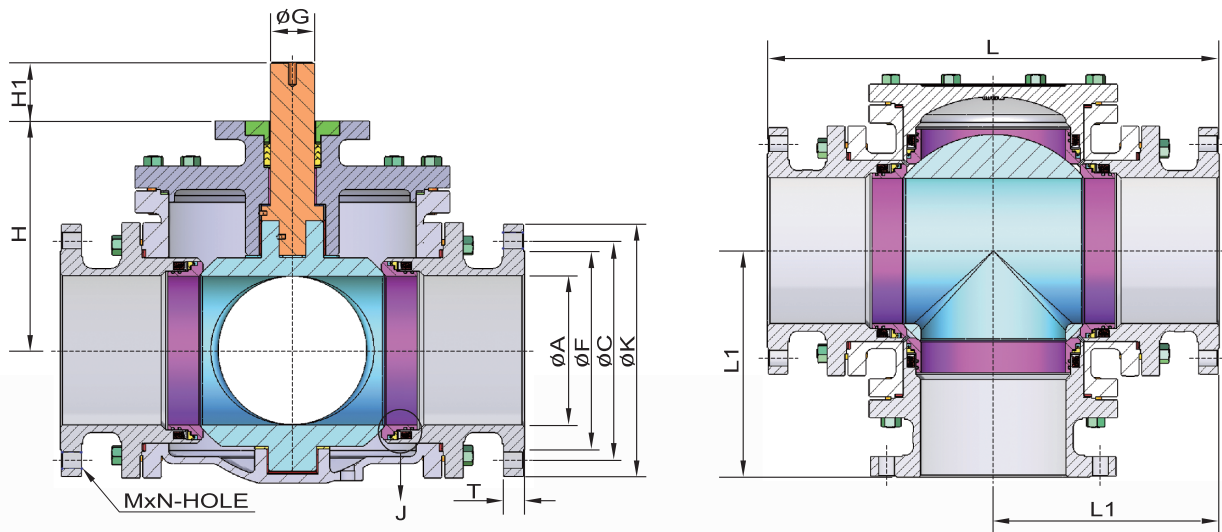
SIZE	A	F	C	K	L	L1	T	H	H1	M	N	Q	W	P	G	Y
40 1-1/2"	40	73	98.5	127	230	115	17.5	80	40	16	4	70	M8	4	22	17
50 2"	50	92	120.6	152.5	257	128	19.1	95.5	47	19	4	70	M8	4	27.7	20
65 2-1/2"	65	104.6	139.7	178	310	155	22.3	121.5	48	19	4	102	M10	4	36.3	27
80 3"	75	127	152.5	190.5	334	167	23.9	136	36.5	19	4	102	M10	4	36.3	27
100 4"	100	157	190.5	229	392	196	23.9	153	52	19	8	102	M10	4	42	32

DIMENSION (JCT/JCTM-C2 SERIES ANSI-300LB FLANGED)

(M.M.)

SIZE	A	F	C	K	L	L1	T	H	H1	M	N	Q	W	P	G	Y
40 1-1/2"	40	73	114.3	155.5	260	130	20.5	80	40	23	4	70	M8	4	22	17
50 2"	50	92	127	165	266	133	22.3	95.5	47	19	8	70	M8	4	27.7	20
65 2-1/2"	65	104.6	149.3	190.5	310	155	25.4	121.5	48	23	8	102	M10	4	36.3	27
80 3"	75	127	168	210	360	180	28.5	136	36.5	23	8	102	M10	4	36.3	27
100 4"	100	157	200	254	420	210	31.8	153	52	23	8	102	M10	4	42	32

JCT / JCTM SERIES DN125~DN200 (5" ~8")



DIMENSION (JCT/JCTM-C1 SERIES ANSI-150LB FLANGED)

(M.M.)

SIZE	A	F	C	K	L	L1	T	H	H1	M	N	Q	W	P	G	Y
125 5"	125	186	216	254	450	225	24	222	89	22	8	140	M16	4	48	37
150 6"	150	216	241.5	279.5	504	252	25.4	246.5	80.5	22	8	140	M16	4	48	37
200 8"	200	270	298.5	343	630	315	28.5	311.5	80	22	8	165	M20	4	60	48

DIMENSION (JCT/JCTM-C2 SERIES ANSI-300LB FLANGED)

(M.M.)

SIZE	A	F	C	K	L	L1	T	H	H1	M	N	Q	W	P	G	Y
125 5"	125	186	235	280	530	265	35.5	222	89	22	8	140	M16	4	48	37
150 6"	150	216	270	318	590	295	36.6	246.5	80.5	22	12	140	M16	4	48	37
200 8"	200	270	330	381	750	375	41.5	311.5	80	25	12	165	M20	4	60	48

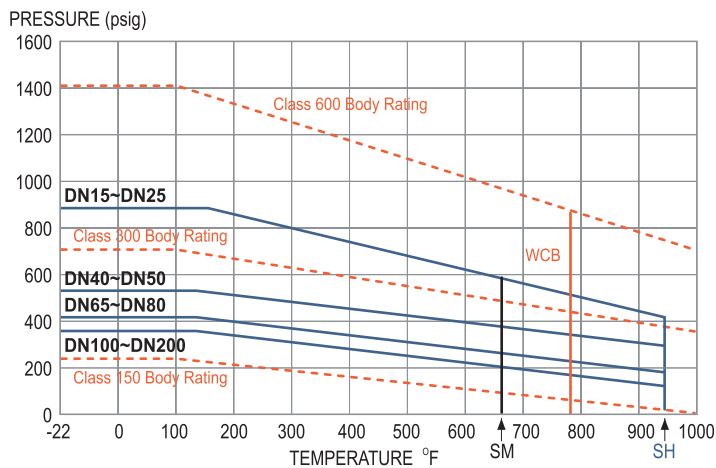


JDV CONTROL VALVES

CERTIFICATES



TEMPERATURE & PRESSURE CURVE



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

PORT TYPE

T-PORT : 90°				L-PORT : 90°			
A Type		B Type		E Type		F Type	
AL	AR	BL	BR	EL	ER	FL	FR
Air In Turn Left	Air Failure Turn Right	Air In Turn Left	Air Failure Turn Right	Air In Turn Left	Air Failure Turn Right	Air In Turn Left	Air Failure Turn Right
C Type		D Type		G Type		H Type	
CL	CR	DL	DR	GR	HL		
Air In Turn Left	Air Failure Turn Right	Air In Turn Left	Air Failure Turn Right	Air Failure Turn Right	Air In Turn Left		Air Failure

HOW TO ORDER

JCT → **A** → **B** **C** **D** → **E** → **F** → **G**
 Ex: **JCT** → **C1** → **03** **A** **P** → **050** → **FH** → **DL**

A. SPECIFICATION	B. BODY MAT'L	C. BALL & STEM MAT'L	D. SEAT MAT'L	E. SIZE	F. OPTION	G. PORT TYPE
C1 ANSI 150LB	02 WCB	A CF8	P PTFE	040 1-1/2"	F FIRE SAFE	AL T-Port AL
C2 ANSI 300LB	03 CF8	C CF8M	G Glass Fiber 15%+PTFE	050 2"	L LONG STEM	AR T-Port AR
	04 CF8M	D CF3	C Carbon 15%+PTFE	065 2-1/2"	I LIFE LOADING	BL T-Port BL
	05 CF3	E CF3M	S 316 50%+PTFE 50%	080 3"	H LEVER	BR T-Port BR
	06 CF3M	F CG8M	T TFM-1600	100 4"	G GEAR	CL T-Port CL
	07 CG8M	H CG3M		125 5"		CR T-Port CR
	08 CG3M			150 6"		DL T-Port DL
	11 LCB			200 8"		DR T-Port DR
	12 LCC					EL L-Port EL
						ER L-Port ER
						FL L-Port FL
						FR L-Port FR
						GR L-Port GR
						HL L-Port HL

JCTM → **A** → **B** **C** **D** → **E** → **F** → **G** → **H**
 Ex: **JCTM** → **C2** → **04** **C** **C** → **050** → **FLG** → **SM** → **BL**

A. SPECIFICATION	B. BODY MAT'L	C. BALL & STEM MAT'L	D. SEAT MAT'L	E. SIZE	F. OPTION	G. TEMPERATURE	H. PORT TYPE
C1 ANSI 150LB	02 WCB	A CF8	A CF8	040 1-1/2"	F FIRE SAFE	SM -29°C~ 350°C	AL T-Port AL
C2 ANSI 300LB	03 CF8	C CF8M	C CF8M	050 2"	L LONG STEM	SH -29°C~ 500°C	AR T-Port AR
	04 CF8M	D CF3	D CF3	065 2-1/2"	I LIFE LOADING	(CARBON STEEL	BL T-Port BL
	05 CF3	E CF3M	E CF3M	080 3"	H LEVER	MAX 425°C)	BR T-Port BR
	06 CF3M	F CG8M	F CG8M	100 4"	G GEAR		CL T-Port CL
	07 CG8M	H CG3M	H CG3M	125 5"			CR T-Port CR
	08 CG3M			150 6"			DL T-Port DL
	11 LCB			200 8"			DR T-Port DR
	12 LCC						EL L-Port EL
	16 WC5						ER L-Port ER
	17 WC9						FL L-Port FL
							FR L-Port FR
							GR L-Port GR
							HL L-Port HL

*1/2"-4"小口径，可选择三通/四通浮动式软密封/金属密封球阀