



JDV CONTROL VALVES CO., LTD.

A SPECIALIST IN DESIGN & MANUFACTURE OF VALVES

JCT/JCTM Series

3/4 Way Trunnion Type Valve Manual



1. Please read this manual before installation or servicing.
2. Before installing or servicing, please ensure the line pressure has been relieved and any hazardous fluid has been drained or purged from the system.



1. Please do not use the valve exceeding its designed pressure range.
2. Please do not use the valve exceeding its designed temperature range.

RECEPTION

Check following points when receiving the goods.

1. Check if there is any break on the packing. All valves should be well packed before shipment in order to prevent from any possible damage caused during the transportation.
2. Check if the valves are correct specification consisted with the order stated.

STORAGE

Please follow below points to check valves in case the valves will not be installed immediately.

1. The valves should be stored in dry and clean indoor.
2. The surface of valve ends should be greased properly for the protection.
3. The ports of valve should be well sealed by plastic caps or tapes for avoiding any dirt entering valve to damage inner parts.



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INSTALLATION

1. Before installing, check all valves and mating flanges to ensure gasket surfaces are free from defects.
2. Make sure all valves and lines are clean without any dirt or debris, which may cause valve seals damaged.
3. Checking the piping is the alignment with appropriate supports. It is not recommended to install valves to improperly positioned pipes.
4. Follow the flow arrows of valve body for making sure the valve will be installed in the correct direction of pipeline. Before installing, inspect the valve by visual for avoiding any damages.
5. Install the valve to the pipeline and tighten bolts properly. Notice that the over tightening of any side may cause the leakage.

OPERATION

Port Type Options

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	Air In Turn Left	Air Failure	Air In Turn Left	Air Failure	Air In Turn Left	Air Failure
Air In Turn Right		Air In Turn Right		Air In Turn Right		Air In Turn Right	
C Type		D Type		G Type		H Type	
CL	CR	DL	DR	GR		HL	
Air In Turn Left	Air Failure	Air In Turn Left	Air Failure	Air Failure	Air In Turn Right	Air In Turn Left	Air Failure



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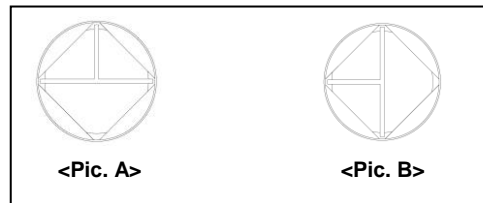
For Manual Operation

Example: Flow direction is required in T-Port A Type AL (See the Port Type Options above)

From AF (Air Failure) to AL (Air in Turn Left)

Step 1. Stem direction should be stopped as Pic. A

Step 2. Put the lever handle on stem and turn it in anti-clockwise till the stem stops as the Pic. B.



From AL to AF

Step 1. Stem direction should be stopped as Pic. B

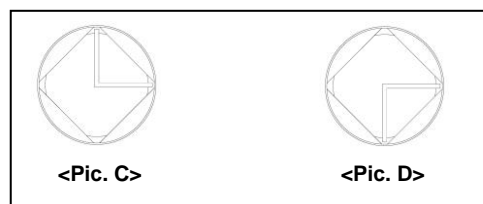
Step 2. Put the lever handle on stem and turn it in clockwise till the stem stops as the Pic. A.

Example: Flow direction is required in L-Port F Type FR (See the Port Type Options above)

From AF (Air in Turn Left) to FR (Air in Turn Right)

Step 1. Stem direction should be stopped as Pic. C.

Step 2. Put the lever handle on stem and turn it in clockwise till the stem stops as the Pic. D.



From FR to AF.

Step 1. Stem direction should be stopped as Pic. D.

Step 2. Put the lever handle on stem and turn it in anti-clockwise till the stem stops as the Pic. C.



The over turning may break the lever handle, stopper or stem to cause the seat leakage, or even more may injure the operator. Therefore, it is strongly suggested to lock the lever handle when the valve is not operated.



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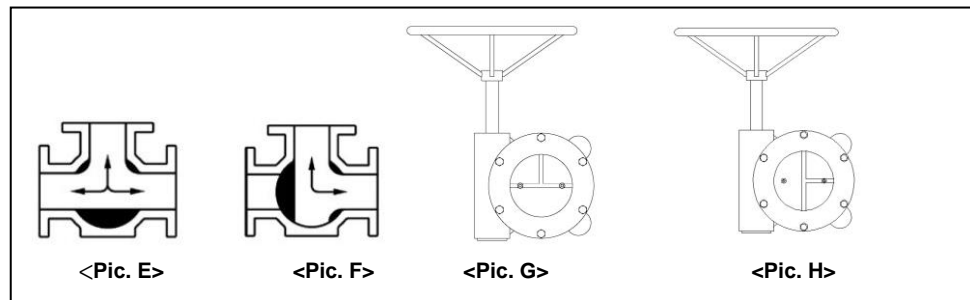
For Gear Operation

Example: Flow direction is required in T-Port A Type AL (See the Port Type Options above)

From AF (Air Failure) to AR (Air in Turn Right)

Step 1. Valve position should be stopped as Pic. E and the direction shown in gear box should be as Pic. G.

Step 2. Follow the turning direction on the handwheel of gear box and turn the handwheel till it stops as the Pic. H.



From AR to AF

Step 1. Valve position should be stopped as Pic. F and the direction shown in gear box should be as Pic. (H).

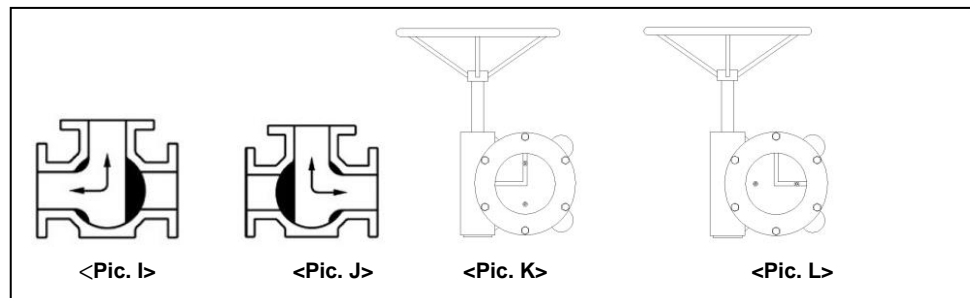
Step 2. Follow the turning direction on the handwheel of gear box and turn the handwheel till it stops as the Pic. G.

Example: Flow direction is required in L-Port E Type ER (See the Port Type Options above)

From AF (Air Failure) to ER (Air in Turn Right)

Step 1. Valve position should be stopped as Pic. I and the direction shown in gear box should be as Pic. K.

Step 2. Follow the turning direction on the handwheel of gear box and turn the handwheel till it stops as the Pic. H.



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From ER to AF

Step 1. Valve position should be stopped as Pic. J and the direction shown in gear box should be as Pic. L.

Step 2. Follow the turning direction on the handwheel of gear box and turn the handwheel till it stops as the Pic. K.

GENERAL MAINTENANCE

It is recommended to observe the valves periodically for ensuring the system under the proper performance. Please follow the instructions and refer the parts list as below if it is necessary to disassemble the valve.

Please refer parts drawing in (Figure A) when disassembling and assembling.

DISASSEMBLING

For Soft-Seated Type DN40~DN100(1-1/2" ~ 4")

1. Before removing the valve from pipeline, ensure the line pressure and dangerous media have been relieved. Also make sure the temperature in pipeline and valve has been cooled down to be safe.
2. Turn the valve to half CLOSE position in 45°C to avoid the pressure in the valve has not been relieved.
3. Remove the valve from the pipeline.
4. Loose either side of Bolts & Nuts(21) of combination, and then remove Cap(2) set. Take out Seat Ring(17), Seat Ring Seal(18), Seat Ring Retainer(19), Spring(20) and Body Gasket(13). Repeat same steps to dismantle another two sides of Cap(2) set and Side Cover(4) set.
5. Remove Snap Catch(23) and Handle(25). Loose Gland Bolt(24), then take out Travel Stop(22) and Gland(6).
6. Loose Bolts & Nuts(21), then take out Top Cover(5) with Gland Packing(7), Gland Thrust Washer(8) and



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Trunnion O-Ring(9).

7. Take out Stem Bearing(10), Stem Thrust Washer(11), Ball(3), Trunnion Washer(15), Trunnion Bearing(14) from Body(1).

For Soft-Seated Type DN125~DN200(5" ~ 8")

1. Before removing the valve from pipeline, ensure the line pressure and dangerous media have been relieved. Also make sure the temperature in pipeline and valve has been cooled down to be safe.

2. Turn the valve to half CLOSE position in 45°C to avoid the pressure in the valve has not been relieved.

3. Remove the valve from the pipeline.

4. Loose either side of Bolts & Nuts(24) of combination, and then remove Cap(2) set. Take out Seat Ring(19), Seat Ring Seal(20), Seat Ring Retainer(21), Spring(22) and Body Gasket(15). Repeat same steps to dismantle another two sides of Cap(2) set and Side Cover(4) set.

5. Remove Gland Bolt(25) and take out Gland(7).

6. Loose Bolts & Nuts(24), then take out Top Cover(5) with Gland Packing(8), Gland Thrust Washer(9) and Stem Bearing(10).

7. Take out Stem(6), Stem Thrust Washer(11), Top Trunnion Bearing(12) and Top Trunnion Washer(13) first, then take out Ball(3), Trunnion Washer(17), Trunnion Bearing(16) from the Body(1).

For Metal-Seated Type DN40~DN100(1-1/2" ~ 4")

1. Before disassembling the valve from pipeline, ensure the line pressure and dangerous media have been relieved. Also make sure the temperature in pipeline and valve has been cooled down to be safe.

2. Turn the valve to half CLOSE position in 45°C to avoid the pressure in the valve has not been relieved.

3. Remove the valve from pipeline.

4. Loose either side Bolts & Nuts(19) of combination, and then remove Cap(2) set. Take out Seat (15), Seat Ring Seal(16), Seat Ring Retainer(17), Spring(18) and Body Gasket(12). Repeat same steps to



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dismantle another two sides of Cap(2) set and Side Cover(4) set.

5. Remove Snap Catch(21) and Handle(23). Loose Gland Bolt(22), then take out Travel Stop(20) and Gland(6).
6. Loose Bolt & Nuts(19), then take out Top Cover(5) with Gland Thrust Washer(8) and Gland Packing(7).
7. Take out Stem Bearing(9), Stem Thrust Washer(10), then take out Ball(3), Trunnion Washer(14), Trunnion Bearing(13) from the Body(1).

For Metal-Seated Type DN125~DN200(5" ~ 8")

1. Before disassembling the valve from pipeline, ensure the line pressure and dangerous media have been relieved. Also make sure the temperature in pipeline and valve has been cooled down to be safe.
2. Turn the valve to half CLOSE position in 45°C to avoid the pressure in the valve has not been relieved.
3. Remove the valve from pipeline.
4. Loose either side of Bolts & Nuts(22) of combination, and then remove Cap(2) set. Take out Seat (18), Seat Ring Seal(19), Seat Ring Retainer(20), Spring(21) and Body Gasket(15). Repeat same steps to dismantle another two sides of Cap(2) set and Side Cover(4) set.
5. Remove Gland Bolt(23) and take out Gland(7)
6. Loose Bolts & Nuts(22), then take out Top Cover(5) with Gland Packing(8), Gland Thrust Washer(9) and Stem Bearing(10).
7. Take out Stem(6), Stem Thrust Washer(11), Stem Bearing(10), Top Trunnion Bearing(12) and Top Trunnion Washer(13) first, then take out Ball(3), Trunnion Washer(17), Trunnion Bearing(16) from Body(1).

ASSEMBLING

For Soft-Seated Type DN40~DN100(1-1/2" ~ 4")

1. Make sure the disassembled Ball(3) and Seat Ring(17) is completely, and the sealing surface is clean



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and free from defects.

2. Insert Trunnion Bearing(14) and Trunnion Washer(15) into Body(1), Then insert Ball(3), Stem Thrust Washer(11), Stem Bearing(10), Top Cover Gasket(12) into Body(1).
3. Put Top Cover(5) into the top of Body(1) and Tighten Bolt(21). Insert Trunnion O-Ring(9), Gland Thrust Washer(8), Gland Packing(7) into Top Cover(5) in sequence.
4. Insert Gland(6), Travel Stop(22), Handle (25) into Top Cover(5) and tighten Gland Bolt(24).
5. Inset Spring(20), Seat Ring Retainer(19), Seat Ring Seal(18) and Seat Ring (17) into Cap(2) and Side Cover(4) to be a set.
6. Insert Body Gasket(13) into Body(1), then assemble the Cap(2) set and Side Cover (4) set to the four sides of Body(1) and tighten Bolts & Nuts(21). Notice the JDV logo on the Side Cover(4) is on the upside.

For Soft-Seated Type DN125~DN200(5" ~ 8")

1. Make sure the disassembled Ball(3) and Seat Ring(17) is completely, and the sealing surface is clean and free of defects.
2. Insert Trunnion Bearing(16) and Trunnion Washer(17) into Body(1), Then insert Ball(3), Top Trunnion Washer(13), Top Trunnion Bearing(12), Stem(6), Stem Thrust Washer(11), Top Cover Gasket(14) into Body(1).
3. Put Top Cover(5) into the top of Body(1) and Tighten Bolts & Nuts(24). Insert Stem Bearing(10), Gland Thrust Washer(9), Gland Packing(8) and Gland(7) into Top Cover(5) and tighten Gland Bolt(25).
4. Insert Spring(22), Seat Ring Retainer(21), Seat Ring Seal(20), Seat Ring (23) and Seat Ring(19) into Cap(2) and Side Cover(4) to be a set.
5. Insert Body Gasket(15) into Body(1), then assemble the Cap(2) set and Side Cover (4) set to the four sides of the Body(1) and tighten Bolts & Nuts(24). Notice the JDV logo on the Side Cover(4) is on the upside.



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For Metal-Seated Type DN40~DN100(1-1/2" ~ 4")

1. Make sure the disassembled Ball(3) and Seat(15) is completely, and the sealing surface is clean and free of defects.
2. Insert Trunnion Bearing(13) and Trunnion Washer(14) into Body(1), Then insert Ball(3), Stem Thrust Washer(10), Stem Bearing(9), Top Cover Gasket(11) into Body(1).
3. Put Top Cover(5) into the top of Body(1) and Tighten Bolts & Nuts(19). Insert Gland Thrust Washer(8), Gland Packing(7) into Top Cover(5) .
4. Insert Gland(6), Travel Stop(20), Snap Catch(21), Handle (23) into Top Cover(5) and tighten Gland Bolt(22).
5. Insert Spring(18), Seat Ring Retainer(17), Seat Ring Seal(16) and Seat (15) into Cap(2) and Side Cover(4) to be a set.
6. Insert Body Gasket(12) into Body(1), then assemble the Cap(2) set and Side Cover (4) set to the four sides of Body(1) and tighten Bolts & Nuts(19). Notice the JDV logo on the Side Cover(4) is on the upside.

For Metal-Seated Type DN125~DN200(5" ~ 8")

1. Make sure the disassembled Ball(3) and Seat(18) is completely, and the sealing surface is clean and free for defects.
2. Insert Trunnion Bearing(16) and Trunnion Washer(17) into Body(1), Then insert Ball(3), Top Trunnion Washer(13), Top Trunnion Bearing(12), Stem(6), Stem Thrust Washer(11), Top Cover Gasket(14) into Body(1).
3. Put Top Cover(5) into the top of Body(1) and Tighten Bolts & Nuts(22). Insert Stem Bearing(10), Gland Thrust Washer(9), Gland Packing(8), Gland(7) into Top Cover(5) and tighten Gland Bolt(23).
4. Insert Spring(21), Seat Ring Retainer(20), Seat Ring Seal(19) and Seat (18) into Cap(2) and Side Cover(4) to be a set.
5. Insert Body Gasket(15) into Body(1), then assemble the Cap(2) set and Side Cover (4) set to the four sides of Body(1) and tighten Bolts & Nuts(22). Notice the JDV logo on the Side Cover(4) is on the upside.



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TROUBLE SHOOTING

Area	Description	Solution	
		Soft-Seated	Metal-Seated
Inner	Leakage from upstream bore	<ol style="list-style-type: none"> 1. Turn the valve to half open position to check if there is any damage on the contacted surface of Ball(3) and Seat Ring(19). 2. If no, then the leakage may be caused by the wear of Seat after long-time operation. Replace the Seat Ring(17/19). Seat Ring Seal(18/20) is necessary to be replaced as long as the valve is disassembled. 3. If yes, replace damaged Ball(3) and Seat Ring(17/19). 	<ol style="list-style-type: none"> 1. Turn the valve to half open position to check if there is any damage on the contacted surface of Ball(3) and Seat(15/18). 2. If yes, replace damaged Ball(3) and Seat (12/18). Seat Ring Seal (15/18) is necessary to be replaced as long as the valve is disassembled. 3. If no, please contact your local agent or JDV.
		Outer	Leakage from stem
Leakage from combination between body and cap	Replace the Body Gasket (13/15).		Replace the Body Gasket (12/15).



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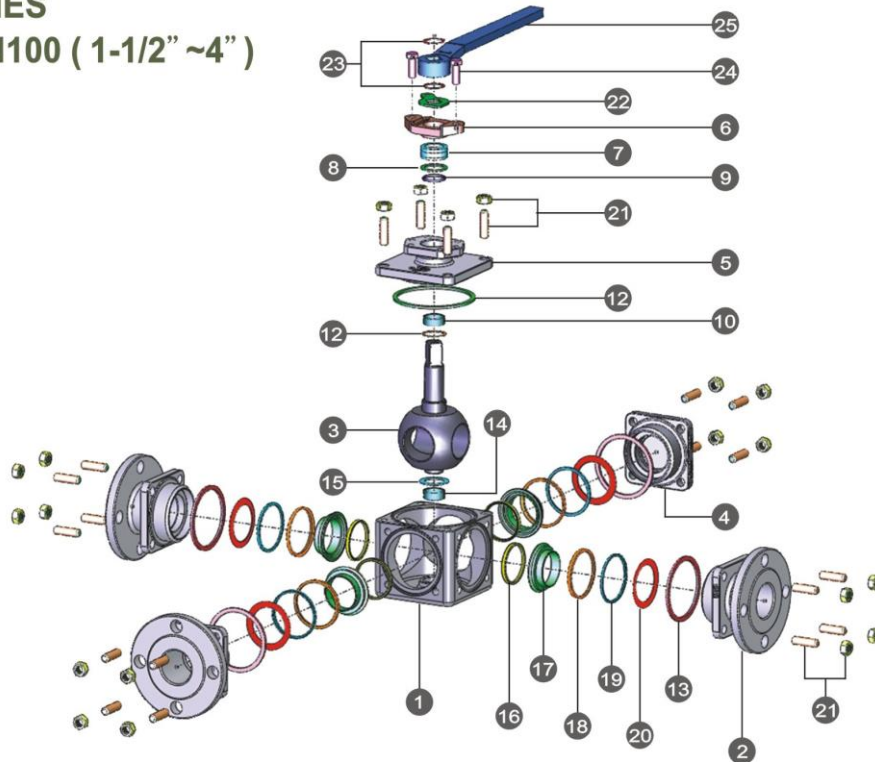


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Figure A

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



Technical Specification

MATERIAL

NO	PARTS NAME	WCB	CF8	CF8M
1	BODY	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
2	CAP	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
3	BALL	ASTM A351-CF8		ASTM A351-CF8M
4	SIDE COVER	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
5	TOP COVER	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
6	GLAND	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 THRUST WASHER	SUS316+PTFE		
12	TOP COVER GASKET	SUS316+GRAPHITE		
13	BODY GASKET	SUS316+GRAPHITE		
14	TRUNNION BEARING	SUS316+PTFE		
15	TRUNNION WASHER	SUS316+PTFE		
16	SEAT	R-PTFE / TFM-1600 / PEEK		
17	SEAT RING	ASTM A351-CF8	ASTM A351-CF8M	
18	SEAT RING SEAL	GRAPHITE		
19	SEAT RING RETAINER	ASTM A351-CF8	ASTM A351-CF8M	
20	SPRING	INCONEL X-750		
21	BOLT & NUT	B7 & 2H	B8 & 8	
22	TRAVEL STOP	SUS304		
23	SNAP CATCH	SUS304		
24	GLAND BOLT	SUS304		
25	HANDLE	FCD45		



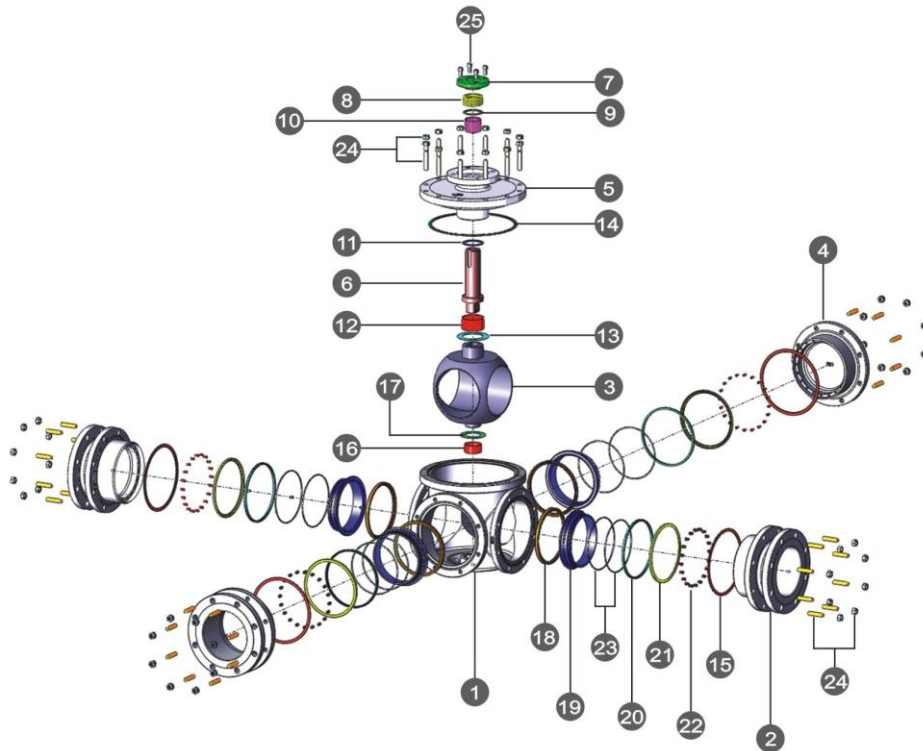
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JCT SERIES DN125~DN200 (5" ~8")



MATERIAL

NO	PARTS NAME	WCB	CF8	CF8M
1	BODY	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
2	CAP	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
3	BALL	ASTM A351-CF8		ASTM A351-CF8M
4	SIDE COVER	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
5	TOP COVER	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
6	STEM	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	SUS316+GRAPHITE		
16	TRUNNION BEARING	SUS316+PTFE		
17	TRUNNION WASHER	SUS316+PTFE		
18	SEAT	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	INCONEL X-750		
23	SEAT O-RING	VITON		
24	BOLT & NUT	B7 & 2H	B8 & 8	
25	GLAND BOLT	SUS304		



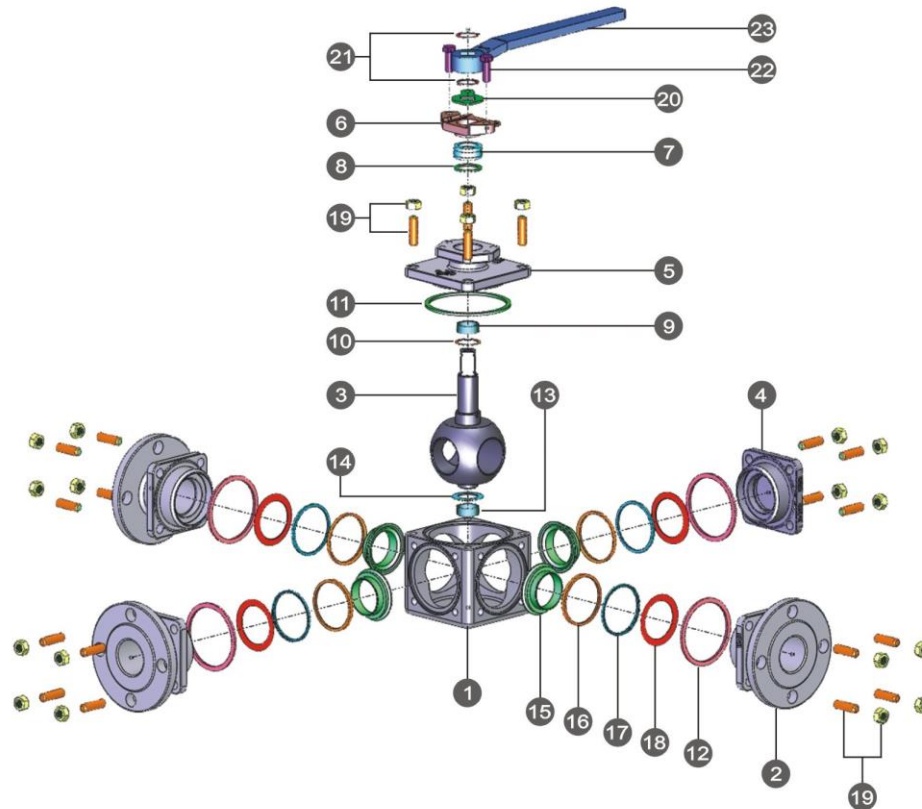
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JCTM SERIES DN40~DN100 (1-1/2" ~4")



MATERIAL

NO	TEMPERATURE	SM			SH		
		- 29°C ~ 350°C			- 29°C ~ 425°C	- 29°C ~ 500°C	
1	BODY	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
2	CAP	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
3	BALL	ASTM A351-CF8 / CF8M + HCr			ASTM A351-CF8 / CF8M + TC		
4	SIDE COVER	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
5	TOP COVER	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
6	GLAND	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	ASTM A351-CF8M + HARD FACE					
10	STEM THRUST WASHER	ASTM A351-CF8M + HARD FACE					
11	TOP COVER GASKET	SUS316 + GRAPHITE					
12	BODY GASKET	SUS316 + GRAPHITE					
13	TRUNNION BEARING	ASTM A351-CF8M + HARD FACE					
14	TRUNNION WASHER	ASTM A351-CF8M + HARD FACE					
15	SEAT	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 TC = Tungsten Carbide Coated



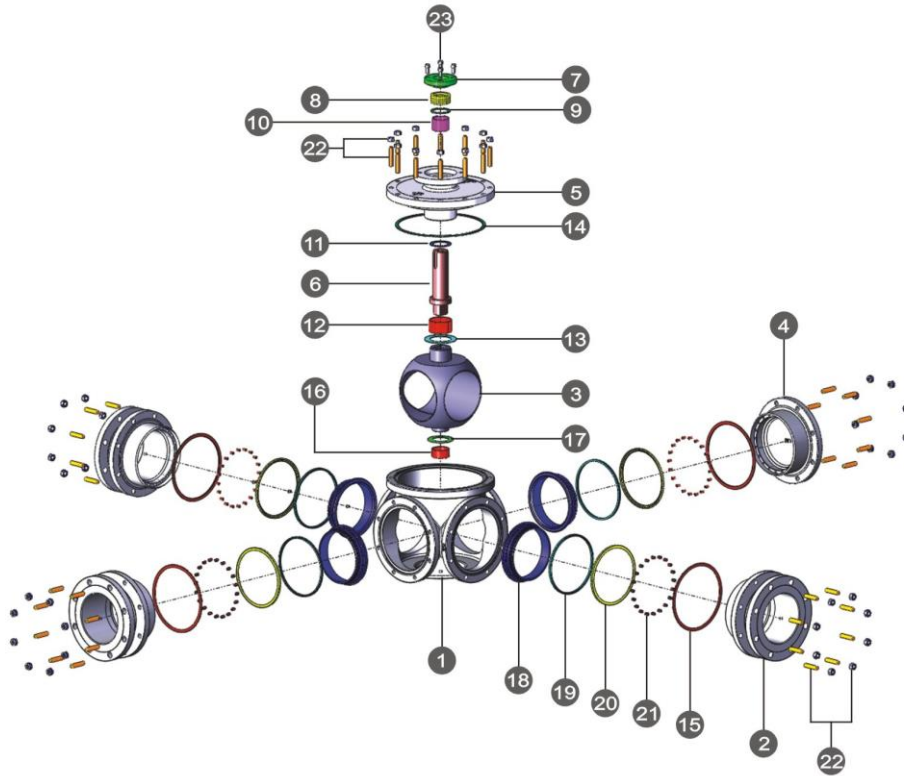
NO-2-2, LANE 292, SHIN NUNG RD., SHIN WU TOWN, TAOYUAN HSIEN, TAIWAN
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JDV CONTROL VALVES CO., LTD.

A SPECIALIST IN DESIGN & MANUFACTURE OF VALVES

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



MATERIAL

NO	TEMPERATURE	SM			SH		
		- 29°C ~ 350°C			- 29°C ~ 425°C		- 29°C ~ 500°C
1	BODY	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
2	CAP	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
3	BALL	ASTM A351-CF8 / CF8M + HCr			ASTM A351-CF8 / CF8M + TC		
4	SIDE COVER	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
5	TOP COVER	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M	ASTM A216-WCB	ASTM A351-CF8	ASTM A351-CF8M
6	STEM	SUS316/SUS630			INCONEL 748		
7	GLAND	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	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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