

DAJA

大甲永和

DAJA-UHP-4-2.0

HP Ball Valve



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Ball Valve

Scope of the application

The design of DAJA Ball Valve is specialized for serving high purity gas distribution system, demanding high purity, oil free, low particle, low working pressure and high Cv value. It is recommended to work in CDA and bulk gas piping line as a shut-off control device.

Tubing Selection

Selecting the tubing properly is necessary when you order the tubing for **lok-DJ**[®] tube fitting. The following factors should be considered.

Surface

- Tubing with any depression, scratch, raised portion, or other surface defect will be difficult to seal, and tubes with smooth and clean surfaces should be used.

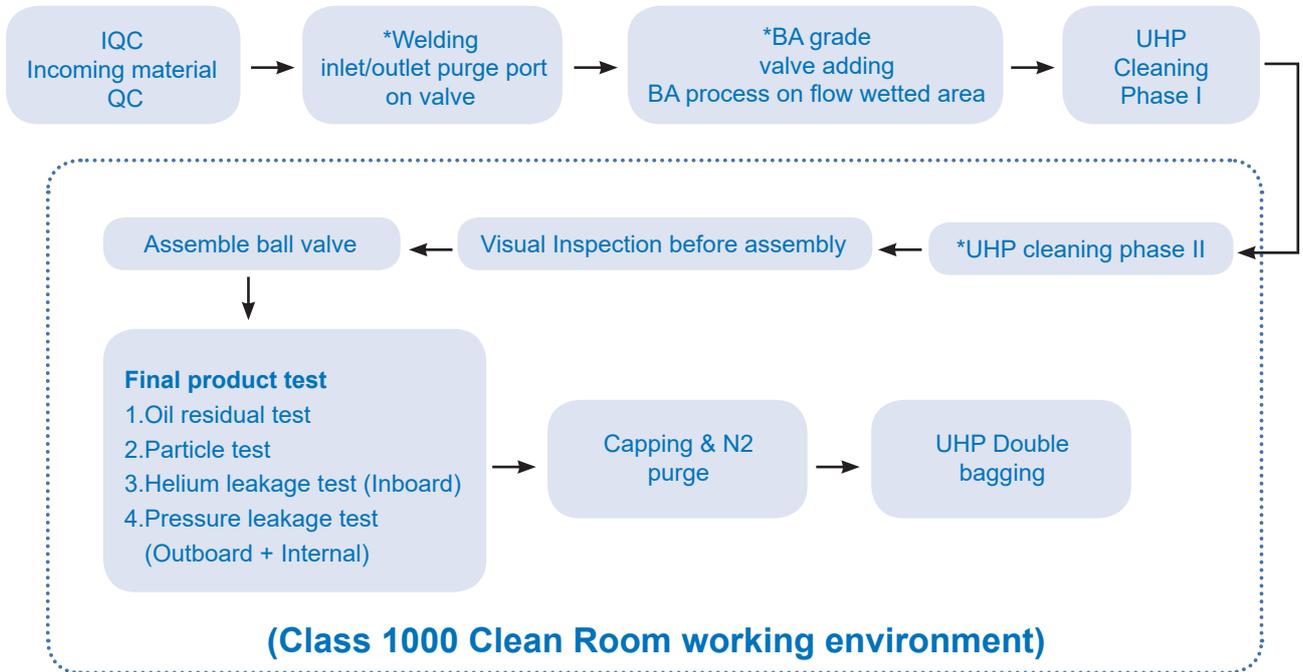
Hardness

- In general, it is recommended that tubing must be fully annealed and hardness not to exceed HV 200.

Specifications

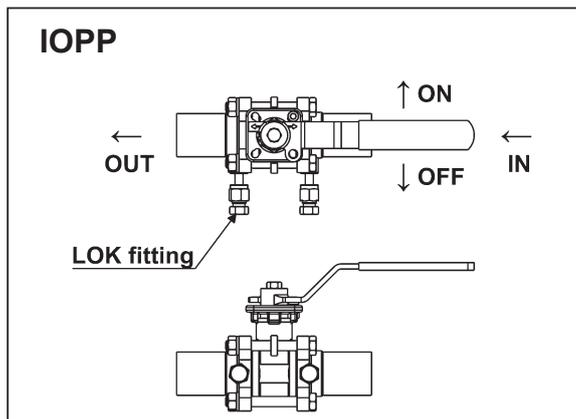
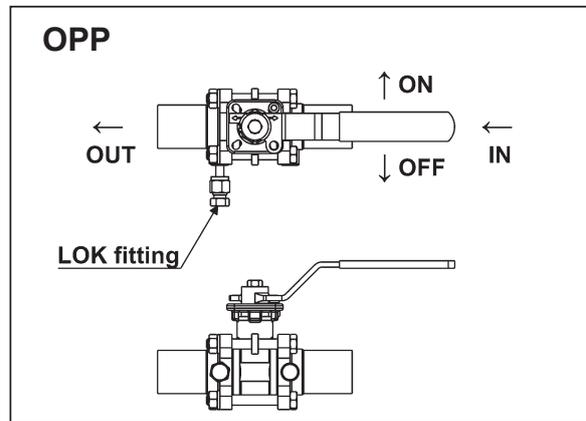
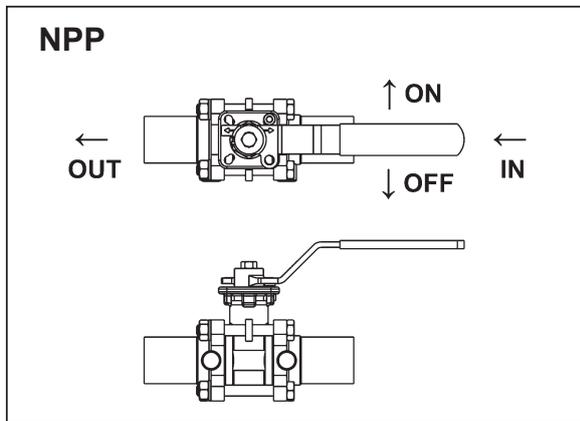
Item	Performance	Description	BA grade
1	Purity	Oil residual rate	0.05 mg/ft ²
		Static particle test	0.3μm < 10pcs
		Cleaning DI water electrical resistivity	> 0.5MΩ
		Valve assembly and packaging environment	Class 1000
2	Low leakage	Outboard & internal leakage test	10kg/cm ² , no leak (100% Factory tested)
3	High corrosion resistance material	Valve body	Stainless Steel, polishing to BA grade, Ra 0.4μm
		End cap	Stainless Steel, polishing to BA grade, Ra 0.4μm
4	Temperature	Working temperature range (with VITON O-ring)	-20°C ~ +180°C

BA Ball Valve Manufacturing Process



• Note: Process with "star*" marking is a specific work for custom-made product.

Input / Output purge port



10K-HP Mini Ball Valve (316)

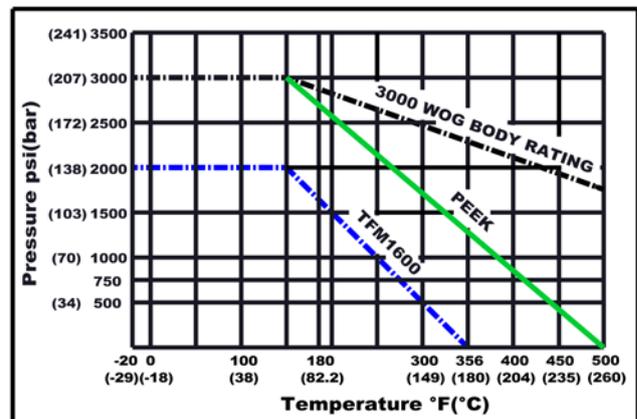
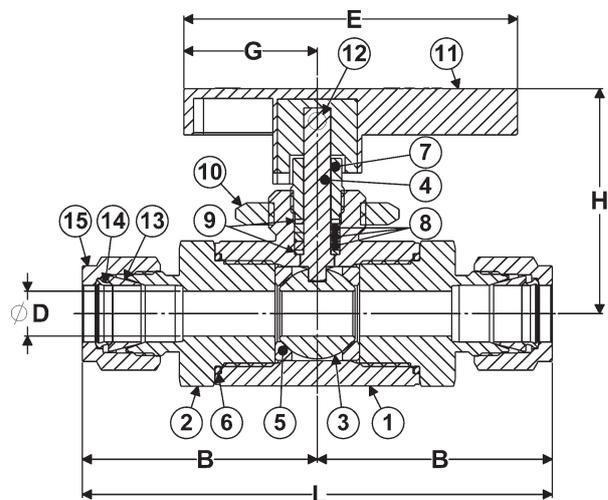
●MINI Series

Model No.	Size
MINI-2	1/4"
MINI-3	3/8"
MINI-4	1/2"
MINI-6	3/4"

●Standard design w/compression fitting connection.

●Materials Of Construction

Item	Part Description	Specification	Q'ty
1	BODY	CF8M	1
2	END CAP-LOK type	SUS316	2
3	BALL	SUS316	1
4	STEM	SUS316	1
5	BALL SEAT	TFM1600	2
6	BODY SEAL	PTFE.TEFLON	2
7	PACKING NUT	SUS316	1
8	STEM PACKING	PTFE.TEFLON	3
9	STEM WASHER	SUS304	2
10	PANEL NUT	SUS303	1
11	HANDLE	NYLON+GLASS FIBER	1
12	HANDLE BOLT	SUS304	1
13	FRONT FERRULE	SUS316	2
14	BACK FERRULE	SUS316	2
15	NUT	SUS316	2



●Dimensions

Unit:mm

Size	Ø D	B	L	E	G	H	CV
1/4"	5.0	41.1	82.2	50	18.33	38.25	0.92
3/8"	7.2	43.8	87.6	50	18.33	38.25	0.92
1/2"	10.2	52.8	105.6	75	30	51	7.02
3/4"	10.2	53.2	106.4	75	30	51	7.02

● Note: (1) B and L dimensions are typical finger-tight.
 (2) Dimension subject to change for better performance without notice.

10K-HP Mini Ball Valve (316)

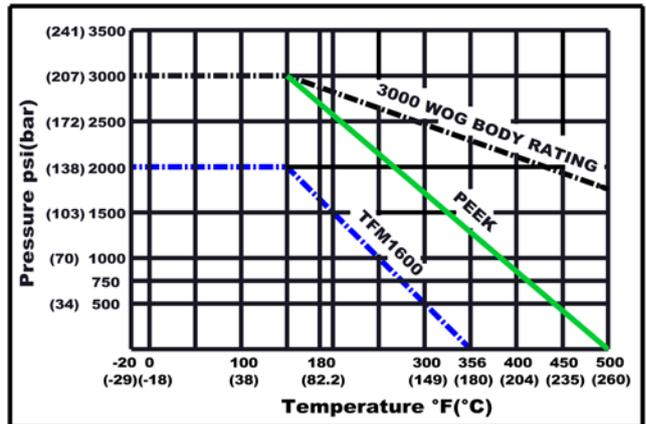
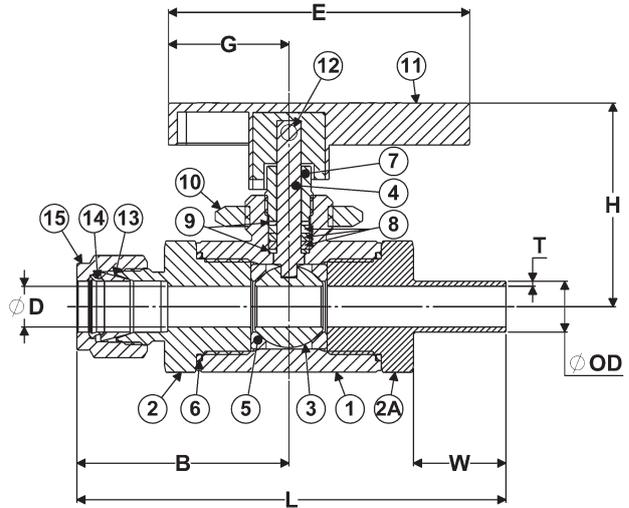
•MINI-LOK TO TUBE Series

Model No.	Size
MINI-LT-2	1/4"
MINI-LT-3	3/8"
MINI-LT-4	1/2"
MINI-LT-6	3/4"

•Standard design w/compression fitting connection.

•Materials Of Construction

Item	Part Description	Specification	Q'ty
1	BODY	CF8M	1
2	END CAP-LOK type	SUS316	1
2A	END CAP-TUBE type	SUS316L	1
3	BALL	SUS316	1
4	STEM	SUS316	1
5	BALL SEAT	TFM1600	2
6	BODY SEAL	PTFE.TEFLON	2
7	PACKING NUT	SUS316	1
8	STEM PACKING	PTFE.TEFLON	3
9	STEM WASHER	SUS304	2
10	PANEL NUT	SUS303	1
11	HANDLE	NYLON+GLASS FIBER	1
12	HANDLE BOLT	SUS304	1
13	FRONT FERRULE	SUS316	1
14	BACK FERRULE	SUS316	1
15	NUT	SUS316	1



•Dimensions

Unit:mm

Size	Ø OD	T	W	Ø D	B	L	E	G	H	CV
1/4"	6.35	1.0	23	5.0	41.1	88.1	50	18.33	38.25	0.92
3/8"	9.52	1.0	23	7.2	43.8	90.8	50	18.33	38.25	0.92
1/2"	12.7	1.24	23	10.2	52.8	106.8	75	30	51	7.02
3/4"	19.05	1.24	40	10.2	53.2	124.2	75	30	51	7.02

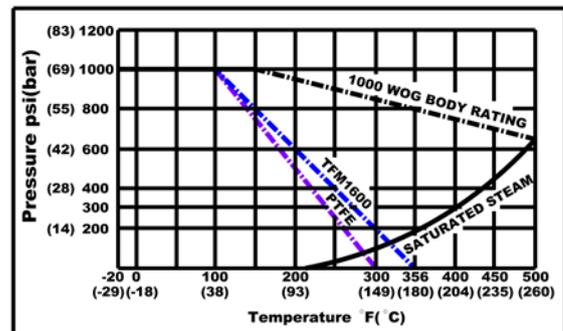
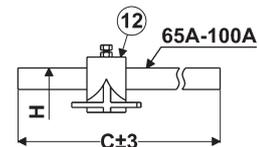
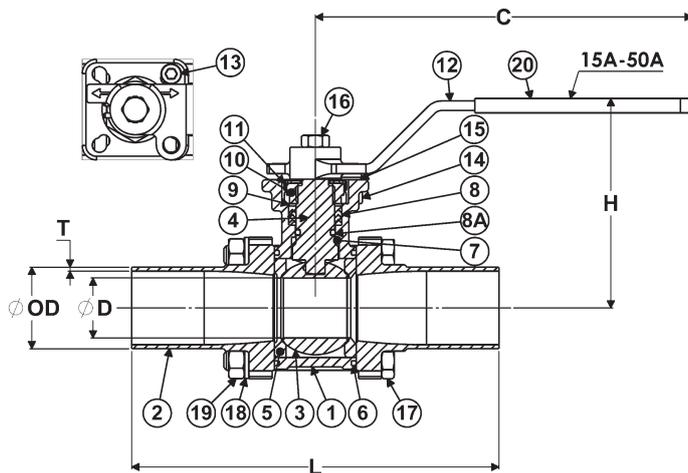
- Note: (1) B and L dimensions are typical finger-tight.
- (2) Dimension subject to change for better performance without notice.

10K-HP ECO Ball Valve (304L)

●ECO Series

Unit:mm

Model NO.	Size	ΦOD	ΦD	T	C	H	L	CV
ECO 15	15A	21.7	15	1.65	126	75	135.4	19
ECO 20	20A	27.2	20	1.65	126	78	135	35
ECO 25	25A	34.0	25	1.65	156	87	152	50
ECO 32	32A	42.7	32	1.65	156	93	177.2	110
ECO 40	40A	48.6	38	1.65	181	114	190	200
ECO 50	50A	60.5	50	1.65	181	122	204	350
ECO 65	65A	76.3	63.5	2.10	300	139	254	650
ECO 80	80A	89.1	76	2.10	400	149	280	1100
ECO 100	100A	114.3	97	2.10	500	178	306	2100



●Materials Of Construction

Item	Part Description	Specification	Q'ty	Item	Part Description	Specification	Q'ty
1	BODY	CF8	1	11	LOCK SADDLE	SS304	1
2	END CAP	CF3	2	12	HANDLE	SS304	1
3	BALL	CF8	1	13	STOP BOLT	SS304	1
4	ANTI STATIC STEM	SS316	1	14	STOP NUT	SS304	1
5	BALL SEAT	TFM1600/PTFE	2	15	STOP WASHER	SS304	1
6	BODY SEAL	PTFE.TEFLON	2	16	HANDLE BOLT	SS304	1
7	THRUST WASHER	PTFE.TEFLON	1	17	BODY BOLT	SS304	4
8A	O-RING	VITON	1	18	BOLT WASHER	SS304	4
8	STEM PACKING	PTFE.TEFLON	1	19	BOLT NUT	SS304	4
9	THRUST WASHER	50%SS. 50%PTFE	1	20	HANDLE SLEEVE	VINYL	1
10	STEM NUT	SS304	1				

Option:1. OPP, IOPP Purge Port w/compression fitting connection

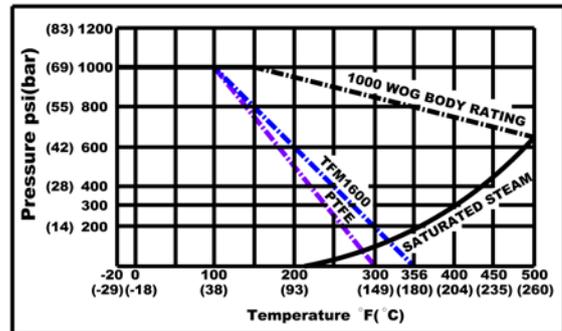
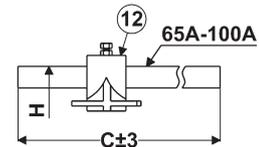
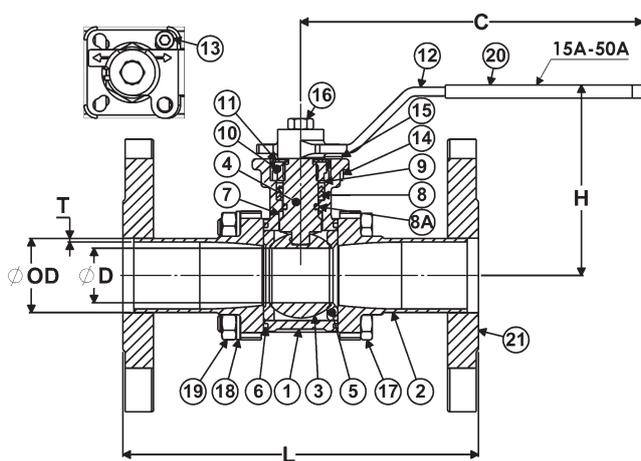
● Note: Dimension subject to change for better performance without notice.

10K-HP ECO Ball Valve (304L)

●ECO-FLANGE Series

Unit:mm

Model NO.	Size	ΦD	ΦD	T	C	H	L	CV
ECO 15F	15A	21.7	15	1.65	126	75	145.4	19
ECO 20F	20A	27.2	20	1.65	126	78	145	35
ECO 25F	25A	34.0	25	1.65	156	87	162	50
ECO 32F	32A	42.7	32	1.65	156	93	187.2	110
ECO 40F	40A	48.6	38	1.65	181	114	200	200
ECO 50F	50A	60.5	50	1.65	181	122	214	350
ECO 65F	65A	76.3	63.5	2.10	300	139	264	650
ECO 80F	80A	89.1	76	2.10	400	149	290	1100
ECO 100F	100A	114.3	97	2.10	500	178	316	2100



●Materials Of Construction

Item	Part Description	Specification	Q'ty	Item	Part Description	Specification	Q'ty
1	BODY	CF8	1	11	LOCK SADDLE	SS304	1
2	END CAP	CF3	2	12	HANDLE	SS304	1
3	BALL	CF8	1	13	STOP BOLT	SS304	1
4	ANTI STATIC STEM	SS316	1	14	STOP NUT	SS304	1
5	BALL SEAT	TFM1600/PTFE	2	15	STOP WASHER	SS304	1
6	BODY SEAL	PTFE.TEFLON	2	16	HANDLE BOLT	SS304	1
7	THRUST WASHER	PTFE.TEFLON	1	17	BODY BOLT	SS304	4
8A	O-RING	VITON	1	18	BOLT WASHER	SS304	4
8	STEM PACKING	PTFE.TEFLON	1	19	BOLT NUT	SS304	4
9	THRUST WASHER	50%SS. 50%PTFE	1	20	HANDLE SLEEVE	VINYL	1
10	STEM NUT	SS304	1	21	Flange-10K	SUS304L	2

Option:1. OPP, IOPP Purge Port w/compression fitting connection

2. 150LB Flange Connection

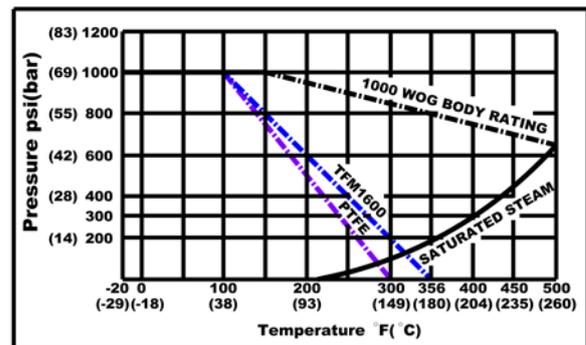
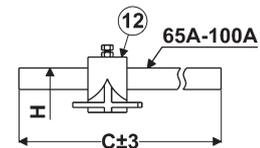
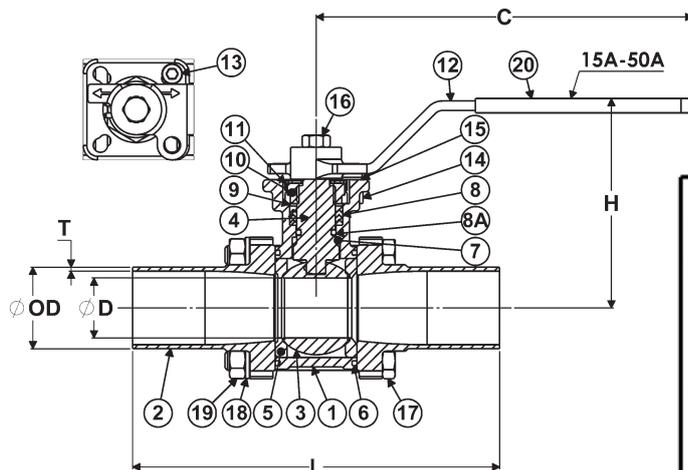
● Note: Dimension subject to change for better performance without notice.

10K-HP SUPA Ball Valve (316L)

●SUPA Series

Unit:mm

Model NO.	Size	ΦOD	ΦD	T	C	H	L	CV
SUPA 15	15A	21.7	15	1.65	126	75	135.4	19
SUPA 20	20A	27.2	20	1.65	126	78	135	35
SUPA 25	25A	34.0	25	1.65	156	87	152	50
SUPA 32	32A	42.7	32	1.65	156	93	177.2	110
SUPA 40	40A	48.6	38	1.65	181	114	190	200
SUPA 50	50A	60.5	50	1.65	181	122	204	350
SUPA 65	65A	76.3	63.5	2.10	300	139	254	650
SUPA 80	80A	89.1	76	2.10	400	149	280	1100
SUPA 100	100A	114.3	97	2.10	500	178	306	2100



●Materials Of Construction

Item	Part Description	Specification	Q'ty	Item	Part Description	Specification	Q'ty
1	BODY	CF8M	1	11	LOCK SADDLE	SS304	1
2	END CAP	CF3M	2	12	HANDLE	SS304	1
3	BALL	CF8M	1	13	STOP BOLT	SS304	1
4	ANTI STATIC STEM	SS316	1	14	STOP NUT	SS304	1
5	BALL SEAT	TFM1600/PTFE	2	15	STOP WASHER	SS304	1
6	BODY SEAL	PTFE.TEFLON	2	16	HANDLE BOLT	SS304	1
7	THRUST WASHER	PTFE.TEFLON	1	17	BODY BOLT	SS304	4
8A	O-RING	VITON	1	18	BOLT WASHER	SS304	4
8	STEM PACKING	PTFE.TEFLON	1	19	BOLT NUT	SS304	4
9	THRUST WASHER	50%SS. 50%PTFE	1	20	HANDLE SLEEVE	VINYL	1
10	STEM NUT	SS304	1				

Option:1. OPP, IOPP Purge Port w/compression fitting connection

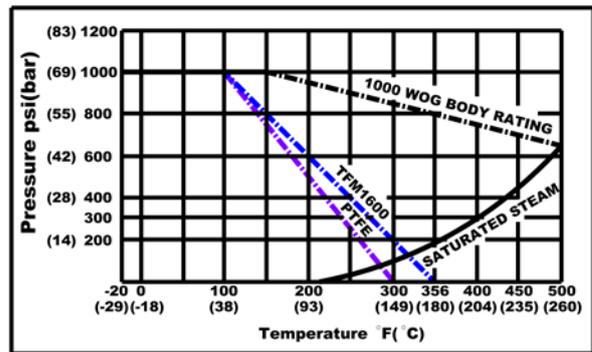
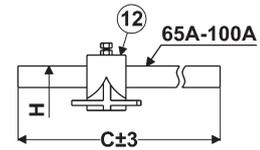
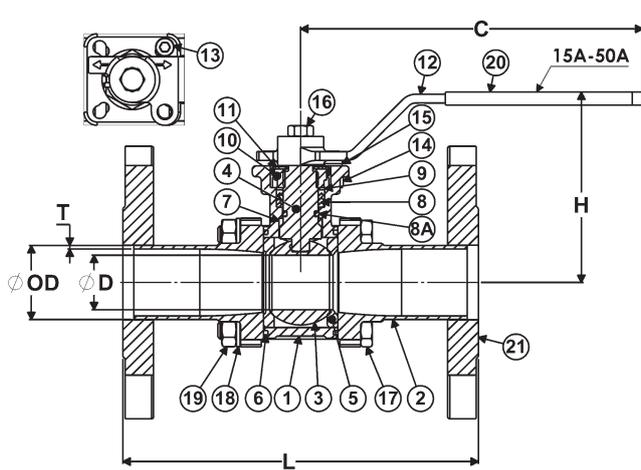
● Note: Dimension subject to change for better performance without notice.

10K-HP SUPA Ball Valve (316L)

●SUPA-FLANGE Series

Unit:mm

Model NO.	Size	ΦD	ΦD	T	C	H	L	CV
SUPA 15F	15A	21.7	15	1.65	126	75	145.4	19
SUPA 20F	20A	27.2	20	1.65	126	78	145	35
SUPA 25F	25A	34.0	25	1.65	156	87	162	50
SUPA 32F	32A	42.7	32	1.65	156	93	187.2	110
SUPA 40F	40A	48.6	38	1.65	181	114	200	200
SUPA 50F	50A	60.5	50	1.65	181	122	214	350
SUPA 65F	65A	76.3	63.5	2.10	300	139	264	650
SUPA 80F	80A	89.1	76	2.10	400	149	290	1100
SUPA 100F	100A	114.3	97	2.10	500	178	316	2100



●Materials Of Construction

Item	Part Description	Specification	Q'ty	Item	Part Description	Specification	Q'ty
1	BODY	CF8M	1	11	LOCK SADDLE	SS304	1
2	END CAP	CF3M	2	12	HANDLE	SS304	1
3	BALL	CF8M	1	13	STOP BOLT	SS304	1
4	ANTI STATIC STEM	SS316	1	14	STOP NUT	SS304	1
5	BALL SEAT	TFM1600/PTFE	2	15	STOP WASHER	SS304	1
6	BODY SEAL	PTFE.TEFLON	2	16	HANDLE BOLT	SS304	1
7	THRUST WASHER	PTFE.TEFLON	1	17	BODY BOLT	SS304	4
8A	O-RING	VITON	1	18	BOLT WASHER	SS304	4
8	STEM PACKING	PTFE.TEFLON	1	19	BOLT NUT	SS304	4
9	THRUST WASHER	50%SS. 50%PTFE	1	20	HANDLE SLEEVE	VINYL	1
10	STEM NUT	SS304	1	21	Flange-10K	SUS316L	2

Option:1. OPP, IOPP Purge Port w/compression fitting connection

2. 150LB Flange Connection

● Note: Dimension subject to change for better performance without notice.

10K-HP JUMBO Ball Valve (304L)

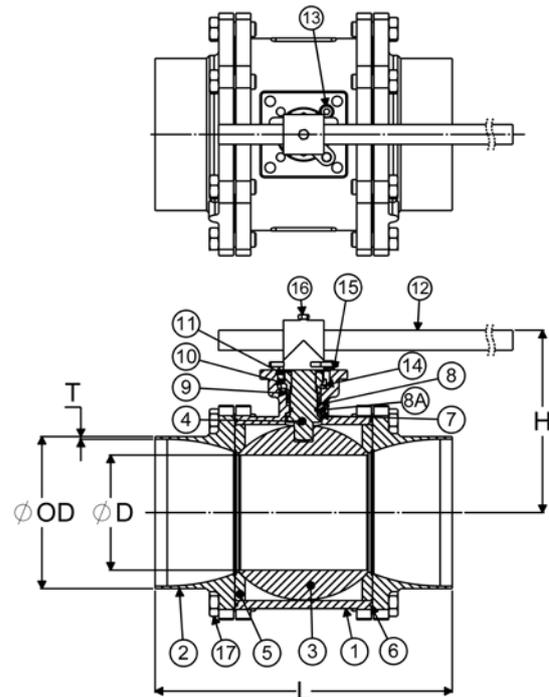
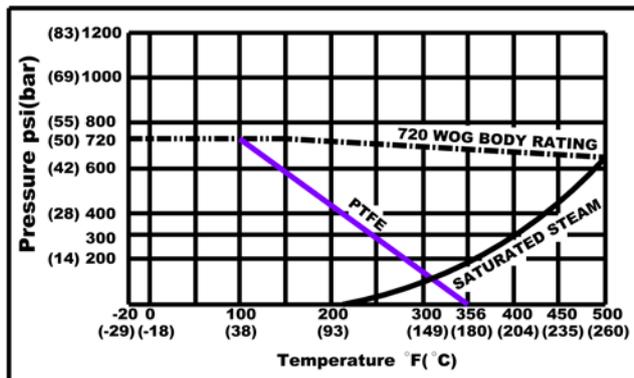
●JUMBO Series

Unit:mm

Model NO.	Size	ΦOD	ΦD	T	H	L	CV	Operation
JUMBO 125	125A	139.8	125	2.8	198	320	3800	Handle
JUMBO 150	150A	165.2	150	2.8	262	376.4	5100	Handle

●JUMBO 125A

●JUMBO 150A



●Materials Of Construction

Item	Part Description	Specification	Q'ty	Item	Part Description	Specification	Q'ty
1	BODY	CF8	1	11	LOCK SADDLE	SS304	1
2	END CAP	CF3	2	12	HANDLE	SS304	1
3	BALL	CF8	1	13	STOP BOLT	SS304	1
4	ANTI STATIC STEM	SS316	1	14	STOP NUT	SS304	1
5	BALL SEAT	PTFE.TEFLON	2	15	STOP WASHER	SS304	1
6	BODY SEAL	PTFE.TEFLON	2	16	HANDLE BOLT	SS304	1
7	THRUST WASHER	PTFE.TEFLON	1	17	BODY BOLT	SS304	12
8A	O-RING	VITON	1				
8	STEM PACKING	PTFE.TEFLON	1				
9	THRUST WASHER	50%SS. 50%PTFE	1				
10	STEM NUT	SS304	1				

Option: 1. OPP, IOPP Purge Port
 2. 10K / 150LB Flange Connection
 3. Material 316L

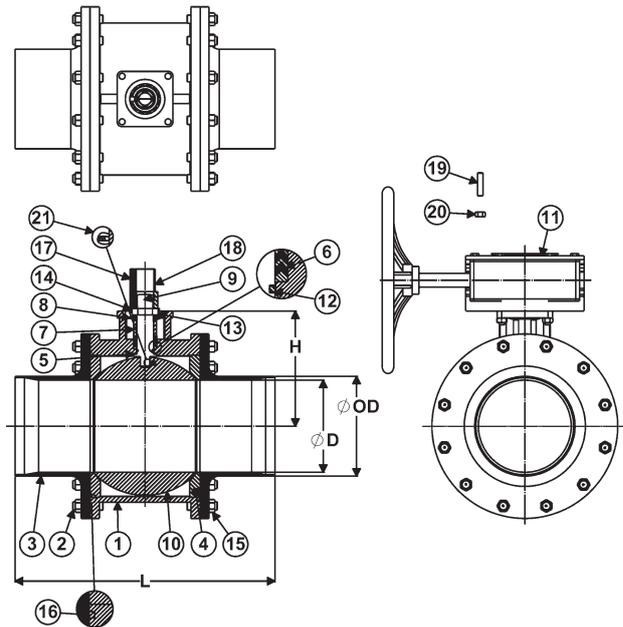
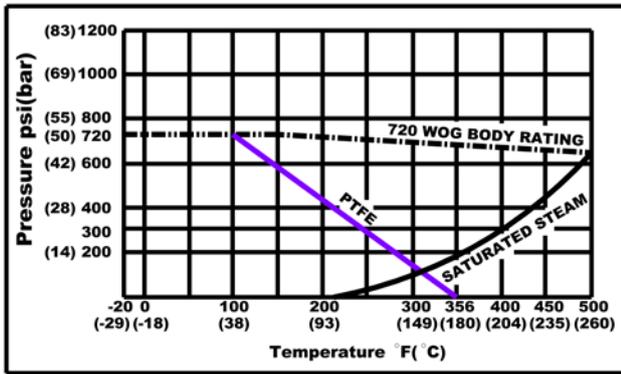
● Note: Dimension subject to change for better performance without notice.

●JUMBO Series

Unit:mm

Model NO.	Size	ΦOD	ΦD	T	H	L	CV	Operation
JUMBO 200	200A	216.3	200	2.8	250	560	9036.41	Gear box w/wheel
JUMBO 250	250A	267.4	250	4.0	310	620	14127	Gear box w/wheel
JUMBO 300	300A	318.5	300	4.5	350	676	21117	Gear box w/wheel

- JUMBO 200A
- JUMBO 250A
- JUMBO 300A



●Materials Of Construction

Item	Part Description	Specification	Q'ty	Item	Part Description	Specification	Q'ty
1	BODY	CF8	1	12	O-Ring	VITON	1
2	HEAVY BOLTS	A2-70	24	13	GLAND NUT	SUS304	1
3	END CAP	CF3	2	14	TAB WASHER	SUS304	1
4	SEAT	PTFE	2	15	HEAVY NUTS	SUS304	24
5	THURST WASHER	PTFE	1	16	GASKET	PTFE	2
6	STEM PACKING	PTFE	5	17	KEY	SUS304	1
7	GLAND	SUS304	1	18	SOCKET FOR GEAR BOX	A536	1
8	DISC SPRING	SUS301	2	19	SOCKET SET SCREWS	A2-70	4
9	STEM	SUS304	1	20	NUT	A2-70	4
10	BALL	CF3	1	21	ANTI STATIC	SUS304	1
11	STANDARD GEAR OPERATION	ASTM A536	1 set				

Option: 1. OPP, IOPP Purge Port
 2. 10K / 150LB Flange Connection

● Note: Dimension subject to change for better performance without notice.

DAJA

High Purity Pipes & Pipe Fittings



Micro Butt-Welding Fittings



Iok-DJ® Compression Fittings



Metal Gasket Face Seal Fittings



HP Ball Valve



UHP CGA/DISS Fittings Series





Quality certification

1994: Certified to ISO 9002

1998: Certified to ISO 14001

2002: Certified to ISO 9001 (replacing ISO 9002)

2007: Certified to JIS MARK (JQA JIS B2312) (JQA JIS B2313)

2009: Certified to ISO 9001 : 2008

2013: Certified to JIS MARK (JQA JIS B2309)

2017: Certified to ISO 9001:2015

2020: Certified to NSF/ANSI 61-G

OUR PRODUCT & SERVICE

1. High Purity Pipe & Pipe Fitting.
2. High Purity Micro Butt-Welding Fittings.
3. High Purity Metal Gasket Face Seal Fittings.
4. UHP CGA/Diss Fittings Series.
5. Compression Fittings.
6. High Purity Ball Valves.
7. Manifold Pipe/Tube.
8. Contract Service: High Purity Welding components (in clean room).
9. Customized electro-polishing and UHP clean service.



Tachia Yung Ho Machine Industry Co.,Ltd.

UHP Components Business Division

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