

1PC THREADED BALL VALVE



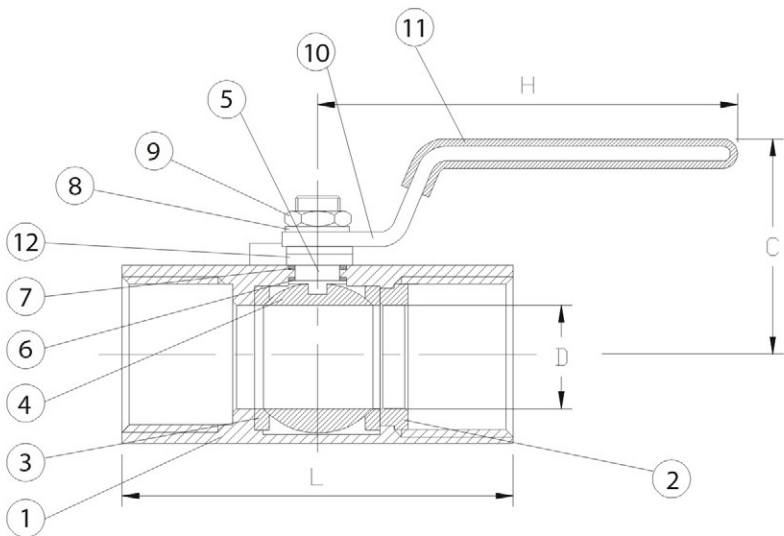
JV-1

Port Bore	Reduced Bore
End	NPT, BSPT, ISO-228 Thread
Material	S/S; EN10213-4:1.4408; ASTM A351-CF8M C/S; EN10213-2:1.0619; ASTM A216-WCB
Pressure	1000PSI (PN63)
Testing	According to API-598 (EN12266-1,2)
Certificate	EN10204-3.1
Temp.	-20 °C to 200 °C (-4 °F to 392 °F)
Seat/Seal	PTFE
Stem	S/S316 Blow-out Proof
Options	Padlocking Device, Oval or Butterfly Handle



MATERIAL LIST

NO	PART	MATERIAL	
1	BODY	CF8M=1.4408	WCB=1.0619
2	INSERT	CF8M=1.4408	WCB=1.0619
3	SEAT	PTFE	
4	BALL	S/S 316	
5	STEM	S/S 316	
6	THRUST WASHER	PTFE	
7	STEM PACKING	PTFE	
8	STEM WASHER	ANSI 304	
9	STEM NUT	ANSI 304	
10	HANDLE	ANSI 304	
11	HANDLE SLEEVE	PVC	
12	GLAND WASHER	ANSI 304	



DIMENSIONS (mm)

SIZE	D	L	C	H	WT (KG)
1/4"	5	39	38	62.5	0.07
3/8"	7	44	40	73	0.11
1/2"	9.2	56.5	51	85	0.18
3/4"	12.5	59	53.5	87	0.26
1"	16	71	56	107	0.42
1-1/4"	20	78	61.5	107	0.75
1-1/2"	25	83	68	130	0.85
2"	32	100	73	130	1.35

2PC ECONOMIC TYPE BALL VALVE

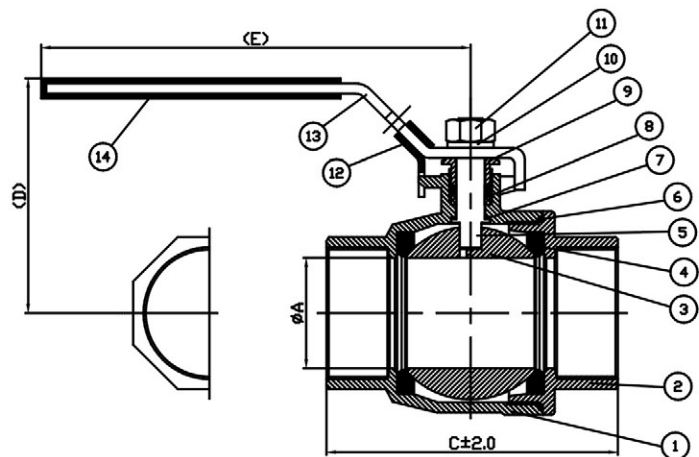
JV-2K

Port Bore	Full Bore
End	NPT, BSPT, ISO-228 Thread
Material	S/S; EN10213-4:1.4408; ASTM A351-CF8M C/S; EN10213-2:1.0619; ASTM A216-WCB
Pressure	1000PSI (PN63) for 1/4" to 1-1/2" 1000PSI (PN40) for 2" to 3"
Testing	According to API-598 (EN12266-1,2)
Certificate	EN10204-3.1
Temp.	-20° C to 200° C (-4° F to 392° F)
Seat/Seal	PTFE (Virgin PTFE)
Stem	AISI 316 Blow-out Proof
Options	Padlocking Device, Oval or Butterfly Handle



MATERIAL LIST

NO	PART	MATERIAL	
1	Body	CF8M = 1.4408	WCB = 1.0619
2	Cap	CF8M = 1.4408	WCB = 1.0619
3	Ball(Relief Hole)	CF8M = 1.4408	
4	Seat	PTFE	
5	Stem	AISI 316 = 1.4401	
6	Body Seal	PTFE	
7	Thrust Washer	PTFE	
8	Stem Packing	PTFE	
9	Gland Nuts	A2 = A194-8 = SUS 304	
10	Spring Washer	AISI 304 = 1.4301	
11	Handle Nuts	A2 = A194-8 = SUS 304	
12	Locking Device	AISI 304 = 1.4301	
13	Handle	AISI 304 = 1.4301	
14	Handle Sleeve	PVC	



DIMENSIONS (mm)

SIZE	A	C	D	E	WT (KG)
1/4"	11.5	55.3	57	106	0.27
3/8"	12.5	55.3	57	106	0.25
1/2"	15	64.7	60	106	0.31
3/4"	20	73.4	68	124	0.47
1"	25	84.8	77	153	0.79
1-1/4"	32	99.5	82	153	1.18
1-1/2"	38	112.7	98	194	1.79
2"	49	129	105	194	2.80
2-1/2"	65	170	145	258	6.84
3"	80	192	155	258	9.80

DIMENSIONS (mm)

2PC HEAVY-DUTY PN16/PN40 FLANGED BALL VALVE

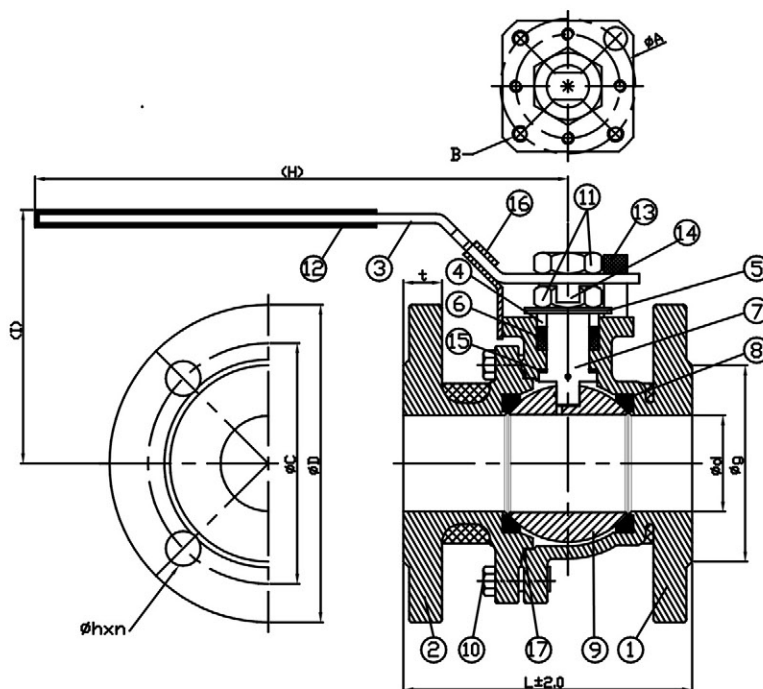
JV-2FH

Feature	Disc-Spring Loaded Ball with Relief Hole ISO-5211 Top Flange
Port Bore	Full Bore
Design	EN12516-1:2000
Face-Face	EN558-1 GR. 1/27 Length
Material	S/S; EN10213-4:1.4408; ASTM A351-CF8M C/S; EN10213-2:1.0619; ASTM A216-WCB
Flange	EN1092-1:PN16/PN40
Testing	According to EN12266-1,2 (API-598)
Certificate	EN10204-3.1
Temp.	-20° C to 200° C (-4° F to 392° F)
Seat/Seal	PTFE (Virgin Pure PTFE)
Stem	AISI 316 Blow-out Proof with Anti-Static Device
Options	Padlocking Device Gear Operator or Pneumatic Actuator Seat of TFM-1600 for Longer Life Cycles Graphite Seat/Gasket for API-607 4 th Edition Firesafe Approved available



MATERIAL LIST

NO	PART	MATERIAL	
1	Body	CF8M = 1.4408	WCB = 1.0619
2	Cap	CF8M = 1.4408	WCB = 1.0619
3	Handle	AISI 304 = 1.4301	
4	Gland Ring	AISI 304 = 1.4301	
5	Belleville Disc	AISI 301 = 1.4310	
6	Stem Packing	PTFE	
7	Stem (Anti-Static)	AISI 316 = 1.4401	
8	Seat	PTFE	
9	Ball (Relief Hole)	CF8M = 1.4408	
10	Hex Cap Screws	A2 = A193-B8 = SUS 304	
11	Stud	A2 = A193-B8 = SUS 304	
11.1	Nuts	A2 = A194-8 = SUS 304	
11.2	Stem Nuts	A2 = A194-8 = SUS 304	
12	Handle Sleeve	PVC	
13	Stop Pin	AISI 304 = 1.4301	
14	Nut Stopper	AISI 304 = 1.4301	
15	Thrust Washer	PTFE	
16	Locking Device	AISI 304 = 1.4301	
17	Body Seal	PTFE	



DIMENSIONS (mm):PN40

SIZE		ISO-5211			d	D	C	g	t	h	n	H	I	L		WT (KG)	
INCH	MM		A	B										GR1	GR27	GR1	GR27
1/2"	15	F04	42	M5	15	95	65	45	16	14	4	165	86	130	115	2.43	2.32
3/4"	20	F04	42	M5	20	105	75	58	18	14	4	165	92	150	120	3.18	3.05
1"	25	F05	50	M6	25	115	85	68	18	14	4	176	106	160	125	4.58	4.30
1-1/4"	32	F05	50	M6	32	140	100	78	18	18	4	215	114	180	130	6.45	6.01
1-1/2"	40	F05	50	M6	38	150	110	88	18	18	4	215	116	200	140	7.48	6.95
2"	50	F07	70	M8	50	165	125	102	20	18	4	278	136	230	150	12.32	11.40
2-1/2"	65	F07	70	M8	65	185	145	122	22	18	8	278	150	290	170	16.92	15.16
3"	80	F10	102	M10	80	200	160	138	24	18	8	375	185	310	180	24.08	22.01
4"	100	F10	102	M10	100	235	190	162	24	22	8	375	200	350	190	32.87	29.75

DIMENSIONS (mm):PN16

2"	50	F07	70	M8	50	165	125	102	18	18	4	278	136	230	150	12.28	9.74
2-1/2"	65	F07	70	M8	65	185	145	122	18	18	8	278	150	290	170	15.64	14.10
3"	80	F10	102	M10	80	200	160	138	20	18	8	375	185	310	180	22.85	20.45
4"	100	F10	102	M10	100	220	180	158	20	18	8	375	200	350	190	30.03	26.23

2PC LARGE-SIZE PN16/PN40 FLANGED BALL VALVE

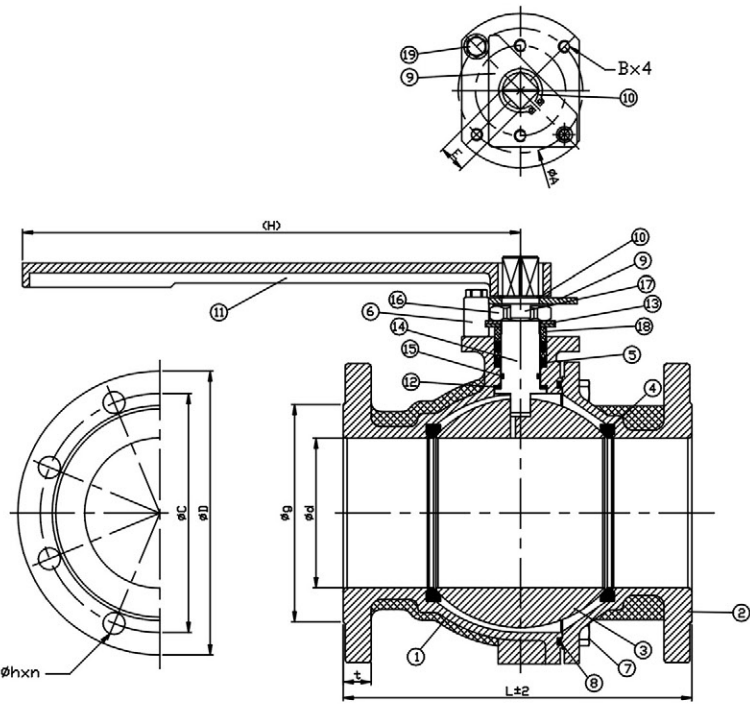
JV-2FB/H

Feature	Large Flanged Ball Valve, Disc-Spring Loaded
Port Bore	Full Bore
Design	EN12516-1:2000
Face-Face	EN558-1 GR. 27 Length
Material	S/S; EN10213-4:1.4408; ASTM A351-CF8M C/S; EN10213-2:1.0619; ASTM A216-WCB
Flange	EN1092-1:PN16/PN40
Testing	According to EN12266-1,2 (API-598)
Certificate	EN10204-3.1
Temp.	-20 °C to 200 °C (-4 °F to 392 °F)
Seat/Seal	PTFE (Virgin Pure PTFE)
Stem	AISI 316 Blow-out Proof with Anti-Static Device
Options	Gear Operator or Pneumatic Actuator Seat of TFM-1600 for Longer Life Cycles Large Flanged BS 6755 Firesafe Approved available



MATERIAL LIST

NO	PART	MATERIAL
1	Body	CF8M = 1.4408 WCB = 1.0619
2	Cap	CF8M = 1.4408 WCB = 1.0619
3	Ball (Relief Hole)	CF8M = 1.4408
4	Seat	PTFE
5	Stem Packing	PTFE
6	Stop Pin	AISI 304 = 1.4301
7	Hex Cap Screws	A2 = A193-B8 = SUS 304
8	Body Seal	PTFE
9	Stop Plate	AISI 304 = 1.4301
10	Retaining Rings for Shafts	AISI 420 = 1.4021
11	Casting Handle	Carbon Steel
12	Thrust Washer	PTFE
13	Belleville Disc	AISI 301 = 1.4310
14	Stem (Anti-Static)	AISI 316 = 1.4401
15	O-Ring	Viton
16	Stem Nuts	A2 = A194-8 = SUS 304
17	Nut Stopper	AISI 304 = 1.4301
18	Gland Ring	AISI 304 = 1.4301
19	Hex Cap Screws	A2 = A193-B8 = SUS 304



DIMENSIONS (mm):2FB/H PN 16

SIZE	ISO-5211		C	D	E	H	L	h	n	d	g	t	WT (KG)
	A	B											
DN150	F12	125	M12	240	285	27	500	350	22	8	150	212	71
DN200	F14	175	M16	295	340	36	500	400	22	12	200	268	123

DIMENSIONS (mm):2FB/H PN 40

SIZE	ISO-5211		C	D	E	H	L	h	n	d	g	t	WT (KG)
	A	B											
DN150	F12	125	M12	250	300	27	500	350	26	8	150	218	78
DN200	F14	175	M16	320	375	36	500	400	30	12	200	285	141

2PC HEAVY-DUTY 10K FLANGED BALL VALVE



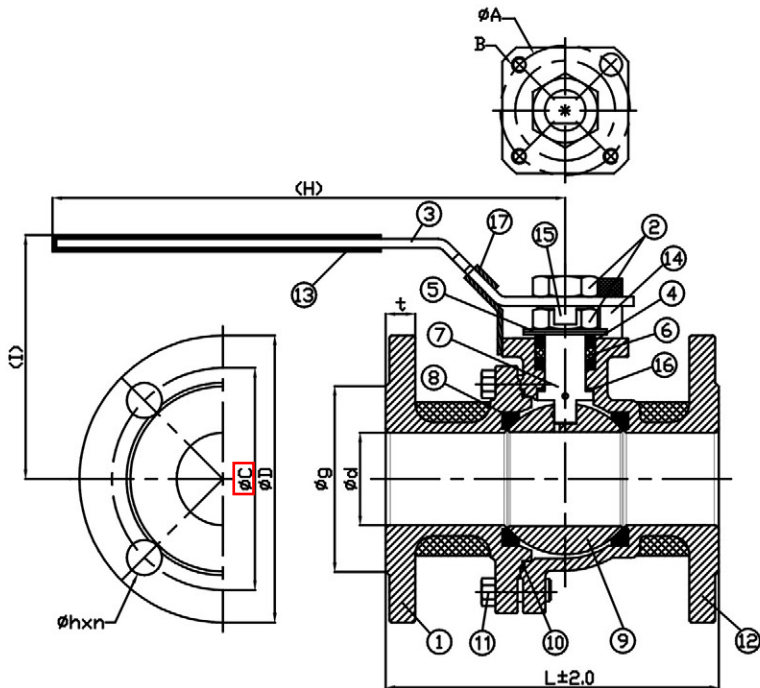
JV-2FH

Feature	Disc-Spring Loaded
	Ball with Relief Hole
	ISO-5211 Top Flange
Design	ASME B16.34
Face-Face	ANSI-B16.10
Material	S/S; EN10213-4:1.4408; ASTM A351-CF8M
	C/S; EN10213-2:1.0619; ASTM A216-WCB
Flange	JIS 10K
Testing	According to EN12266-1,2 (API-598)
Certificate	EN10204-3.1
Temp.	-20 °C to 200 °C (-4 °F to 392 °F)
Seat/Seal	PTFE (Virgin Pure PTFE)
Stem	AISI 316 Blow-out Proof with Anti-Static Device
Options	Padlocking Device
	Gear Operator or Pneumatic Actuator
	Seat of TFM-1600 for Longer Life Cycles



MATERIAL LIST

NO	PART	MATERIAL	
1	Cap	CF8M = 1.4408	WCB = 1.0619
2	Stem Nuts	A2 = A194-8 = SUS 304	
3	Handle	AISI 304 = 1.4301	
4	Gland Ring	AISI 304 = 1.4301	
5	Belleville Disc	AISI 301 = 1.4310	
6	Stem Packing	PTFE	
7	Stem (Anti-Static)	AISI 316 = 1.4401	
8	Seat	PTFE	
9	Ball (Relief Hole)	CF8M = 1.4408	
10	Body Seal	PTFE	
11	Hex Cap Screws	A2 = A193-B8 = SUS 304	
12	Body	CF8M = 1.4408	WCB = 1.0619
13	Handle Sleeve	PVC	
14	Stop Pin	AISI 304 = 1.4301	
15	Nut Stopper	AISI 304 = 1.4301	
16	Thrust Washer	PTFE	
17	Locking Device	AISI 304 = 1.4301	



DIMENSIONS (mm)

SIZE		ISO-5211			d	D	C	g	t	h	n	H	I	L	WT (KG)
INCH	MM		A	B											
1/2"	15	F04	42	M5	15	95	70	52	12	15	4	165	86	110	2.07
3/4"	20	F04	42	M5	20	100	75	58	14	15	4	165	92	120	2.66
1"	25	F05	50	M6	25	125	90	70	14	19	4	176	106	130	4.32
1-1/4"	32	F05	50	M6	32	135	100	80	16	19	4	215	114	140	5.56
1-1/2"	40	F05	50	M6	38	140	105	85	16	19	4	215	116	165	6.38
2"	50	F07	70	M8	50	155	120	100	16	19	4	178	136	180	9.34
2-1/2"	65	F07	70	M8	65	175	140	120	18	19	4	178	150	190	14.01
3"	80	F10	102	M10	80	185	150	130	18	19	8	375	185	200	19.83
4"	100	F10	102	M10	100	210	175	155	18	19	8	375	200	230	27.06

2PC HEAVY-DUTY CLASS 150 FLANGED BALL VALVE



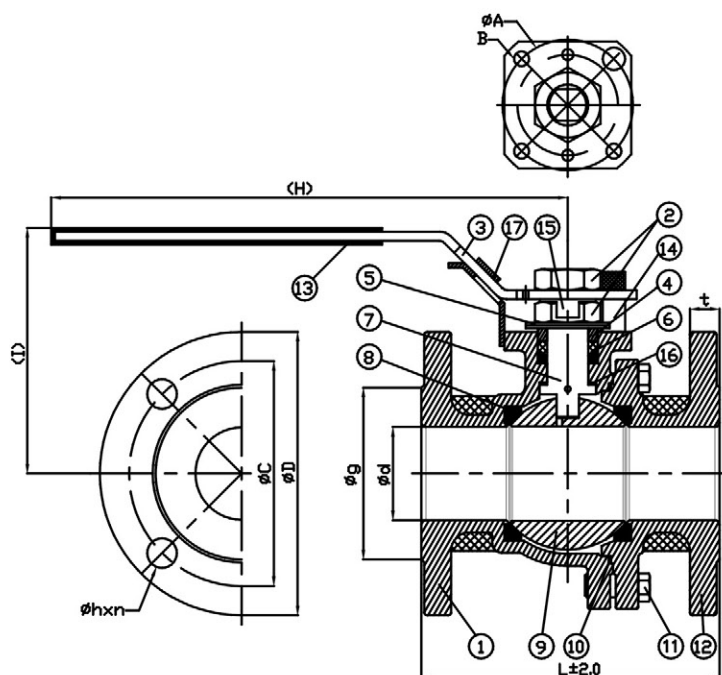
JV-2FH

Feature	Disc-Spring Loaded Ball with Relief Hole ISO-5211 Top Flange
Port Bore	Full Bore
Design	ASME B16.34
Face-Face	ANSI-B16.10
Material	S/S; EN10213-4:1.4408; ASTM A351-CF8M C/S; EN10213-2:1.0619; ASTM A216-WCB
Flange	ANSI-B16.5 Class 150/300 (EN1759-1)
Testing	According to EN12266-1,2 (API-598)
Certificate	EN10204-3.1
Temp.	-20 °C to 200 °C (-4 °F to 392 °F)
Seat/Seal	PTFE (Virgin Pure PTFE)
Stem	AISI 316 Blow-out Proof with Anti-Static Device
Options	Padlocking Device Gear Operator or Pneumatic Actuator Seat of TFM-1600 for Longer Life Cycles Graphite Seat/Gasket for API-607 4 th Edition Firesafe Approved available



MATERIAL LIST

NO	PART	MATERIAL
1	Body	CF8M = 1.4408 WCB = 1.0619
2	Stem Nuts	A2 = A194-8 = SUS 304
3	Handle	AISI 304 = 1.4301
4	Gland Ring	AISI 304 = 1.4301
5	Belleville Disc	AISI 301 = 1.4310
6	Stem Packing	PTFE
7	Stem (Anti-Static)	AISI 316 = 1.4401
8	Seat	PTFE
9	Ball (Relief Hole)	CF8M = 1.4408
10	Body Seal	PTFE
11	Hex Cap Screws	A2 = A193-B8 = SUS 304
12	Cap	CF8M = 1.4408 WCB = 1.0619
13	Handle Sleeve	PVC
14	Stop Pin	AISI 304 = 1.4301
15	Nut Stopper	AISI 304 = 1.4301
16	Thrust Washer	PTFE
17	Locking Device	AISI 304 = 1.4301



DIMENSIONS (mm)

SIZE		ISO-5211			d	D	C	g	t	h	n	H	I	L	WT (KG)
INCH	MM		A	B											
1/2"	15	F04	42	M5	15	89	60.3	34.9	11.1	15.9	4	165	86	108	1.70
3/4"	20	F04	42	M5	20	98	69.8	42.9	11.1	15.9	4	165	92	117	2.13
1"	25	F05	50	M6	25	108	79.4	50.8	11.1	15.9	4	176	106	127	3.11
1-1/4"	32	F05	50	M6	32	117	88.9	63.5	12.7	15.9	4	215	114	140	4.28
1-1/2"	40	F05	50	M6	38	127	98.4	73	14.3	15.9	4	215	116	165	5.46
2"	50	F07	70	M8	50	152	120.6	92.1	15.9	19	4	278	136	178	9.01
2-1/2"	65	F07	70	M8	65	178	139.7	104.8	17.5	19	4	278	150	190	13.07
3"	80	F10	102	M10	80	190	152.4	127	19	19	4	375	185	203	20.07
4"	100	F10	102	M10	100	229	190.5	157.2	23.8	19	8	375	200	229	30.20

2PC LARGE-SIZE CLASS 150/CLASS 300 FLANGED BALL VALVE



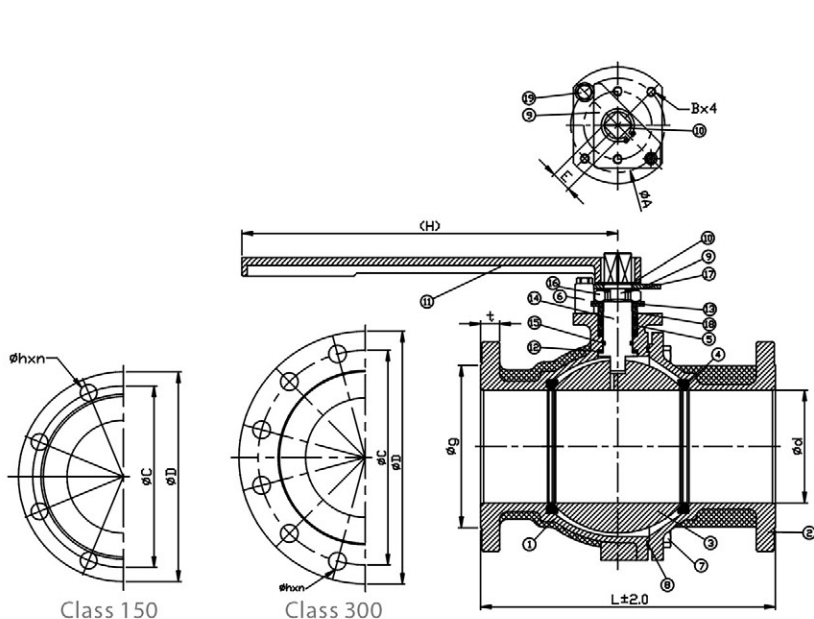
JV-2FB/H

Feature	Large Flanged Ball Valve, Disc-Spring Loaded
Port Bore	Full Bore
Design	ASME B16.34
Face-Face	ANSI-B16.10
Material	S/S; EN10213-4:1.4408; ASTM A351-CF8M C/S; EN10213-2:1.0619; ASTM A216-WCB
Flange	ANSI-B16.5 Class 150/300 (EN1759-1)
Testing	According to EN12266-1,2 (API-598)
Certificate	EN10204-3.1
Temp.	-20 °C to 200 °C (-4 °F to 392 °F)
Seat/Seal	PTFE (Virgin Pure PTFE)
Stem	AISI 316 Blow-out Proof with Anti-Static Device
Options	Gear Operator or Pneumatic Actuator TFM1600 Seat Available Large Flanged BS6755 Firesafe Approved available



MATERIAL LIST

NO	PART	MATERIAL
1	Body	CF8M = 1.4408 WCB = 1.0619
2	Cap	CF8M = 1.4408 WCB = 1.0619
3	Ball (Relief Hole)	CF8M = 1.4408
4	Seat	PTFE
5	Stem Packing	PTFE
6	Stop Pin	AISI 304 = 1.4301
7	Hex Cap Screws	A2 = A193-B8 = SUS 304
8	Body Seal	PTFE
9	Stop Plate	AISI 304 = 1.4301
10	Retaining Rings for Shafts	AISI 420 = 1.4021
11	Casting Handle	Carbon Steel
12	Thrust Washer	PTFE
13	Belleville Disc	AISI 301 = 1.4310
14	Stem (Anti-Static)	AISI 316 = 1.4401
15	O-Ring	Viton
16	Stem Nuts	A2 = A194-8 = SUS 304
17	Nut Stopper	AISI 304 = 1.4301
18	Gland Ring	AISI 304 = 1.4301
19	Hex Cap Screws	A2 = A193-B8 = SUS 304



DIMENSIONS (mm):2FB/H Class 150

SIZE	ISO-5211			C	D	E	H	L	h	n	d	g	t	WT (KG)
		A	B											
6"	F12	125	M12	241.3	279	27	500	394	22.2	8	150	215.9	25.4	74
8"	F14	175	M16	298.4	343	36	500	457	22.2	8	200	269.9	28.6	123

DIMENSIONS (mm):2FB/H Class 300

SIZE	ISO-5211			C	D	E	H	L	h	n	d	g	t	WT (KG)
		A	B											
6"	F12	125	M12	269.9	318	27	500	403	22.2	12	150	215.9	36.5	91
8"	F14	175	M16	330.2	381	36	500	502	25.4	12	200	269.9	41.3	155

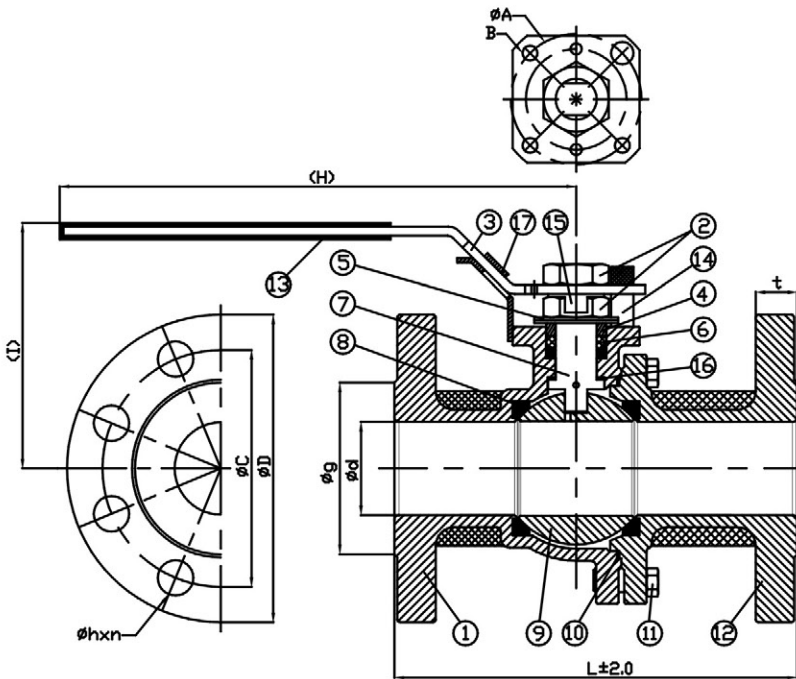
2PC HEAVY-DUTY CLASS 300 FLANGED BALL VALVE

JV-2FH	
Feature	Disc-Spring Loaded Ball with Relief Hole ISO-5211 Top Flange
Port Bore	Full Bore
Design	ASME B16.34
Face-Face	ANSI-B16.10
Material	S/S; EN10213-4:1.4408; ASTM A351-CF8M C/S; EN10213-2:1.0619; ASTM A216-WCB
Flange	ANSI-B16.5 Class 150/300 (EN1759-1)
Testing	According to EN12266-1,2 (API-598)
Certificate	EN10204-3.1
Temp.	-20° C to 200° C (-4° F to 392° F)
Seat/Seal	PTFE (Virgin Pure PTFE)
Stem	AISI 316 Blow-out Proof with Anti-Static Device
Options	Padlocking Device Gear Operator or Pneumatic Actuator Seat of TFM-1600 for Longer Life Cycles Graphite Seat/Gasket for API-607 4 th Edition Firesafe Approved available



MATERIAL LIST

NO	PART	MATERIAL
1	Body	CF8M = 1.4408 WCB = 1.0619
2	Stem Nuts	A2 = A194-8 = SUS 304
3	Handle	AISI 304 = 1.4301
4	Gland Ring	AISI 304 = 1.4301
5	Belleville Disc	AISI 301 = 1.4310
6	Stem Packing	PTFE
7	Stem (Anti-Static)	AISI 316 = 1.4401
8	Seat	PTFE
9	Ball (Relief Hole)	CF8M = 1.4408
10	Body Seal	PTFE
11	Hex Cap Screws	A2 = A193-B8 = SUS 304
12	Cap	CF8M = 1.4408 WCB = 1.0619
13	Handle Sleeve	PVC
14	Stop Pin	AISI 304 = 1.4301
15	Nut Stopper	AISI 304 = 1.4301
16	Thrust Washer	PTFE
17	Locking Device	AISI 304 = 1.4301



DIMENSIONS (mm)

SIZE		ISO-5211			d	D	C	g	t	h	n	H	I	L	WT (KG)
INCH	MM		A	B											
1/2"	15	F04	42	M5	15	95	66.7	34.9	14.3	15.9	4	165	86	140	2.19
3/4"	20	F04	42	M5	20	117	82.6	42.9	15.9	19	4	165	92	152	3.30
1"	25	F05	50	M6	25	124	88.9	50.8	17.5	19	4	176	106	165	4.62
1-1/4"	32	F05	50	M6	32	133	98.4	63.5	19	19	4	215	114	178	6.22
1-1/2"	40	F05	50	M6	38	156	114.3	73	20.6	22.2	4	215	116	190	8.24
2"	50	F07	70	M8	50	165	127	92.1	22.2	19	8	278	136	216	12.31
2-1/2"	65	F07	70	M8	65	190	149.2	104.8	25.4	22.2	8	278	150	241	17.55
3"	80	F10	102	M10	80	210	168.3	127	28.6	22.2	8	375	185	283	27.52
4"	100	F10	102	M10	100	254	200	157.2	31.8	22.2	8	375	200	305	41.23

2PC LARGE-SIZE CLASS 150/CLASS 300 FLANGED BALL VALVE



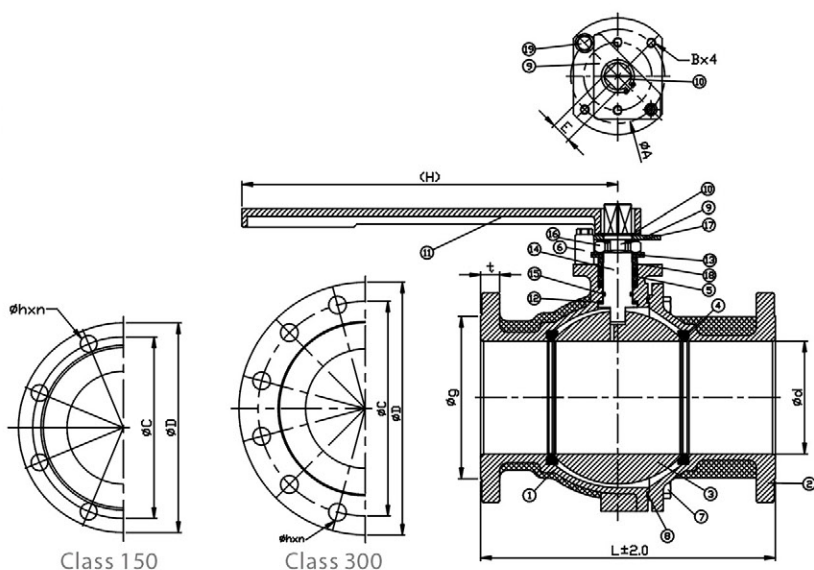
JV-2FB/H

Feature	Large Flanged Ball Valve, Disc-Spring Loaded
Port Bore	Full Bore
Design	ASME B16.34
Face-Face	ANSI-B16.10
Material	S/S; EN10213-4:1.4408; ASTM A351-CF8M C/S; EN10213-2:1.0619; ASTM A216-WCB
Flange	ANSI-B16.5 Class 150/300 (EN1759-1)
Testing	According to EN12266-1,2 (API-598)
Certificate	EN10204-3.1
Temp.	-20 °C to 200 °C (-4 °F to 392 °F)
Seat/Seal	PTFE (Virgin Pure PTFE)
Stem	AISI 316 Blow-out Proof with Anti-Static Device
Options	Gear Operator or Pneumatic Actuator TFM1600 Seat Available Large Flanged BS6755 Firesafe Approved available



MATERIAL LIST

NO	PART	MATERIAL
1	Body	CF8M = 1.4408 WCB = 1.0619
2	Cap	CF8M = 1.4408 WCB = 1.0619
3	Ball (Relief Hole)	CF8M = 1.4408
4	Seat	PTFE
5	Stem Packing	PTFE
6	Stop Pin	AISI 304 = 1.4301
7	Hex Cap Screws	A2 = A193-B8 = SUS 304
8	Body Seal	PTFE
9	Stop Plate	AISI 304 = 1.4301
10	Retaining Rings for Shafts	AISI 420 = 1.4021
11	Casting Handle	Carbon Steel
12	Thrust Washer	PTFE
13	Belleville Disc	AISI 301 = 1.4310
14	Stem (Anti-Static)	AISI 316 = 1.4401
15	O-Ring	Viton
16	Stem Nuts	A2 = A194-8 = SUS 304
17	Nut Stopper	AISI 304 = 1.4301
18	Gland Ring	AISI 304 = 1.4301
19	Hex Cap Screws	A2 = A193-B8 = SUS 304



DIMENSIONS (mm):2FB/H Class 150

SIZE	ISO-5211			C	D	E	H	L	h	n	d	g	t	WT (KG)
		A	B											
6"	F12	125	M12	241.3	279	27	500	394	22.2	8	150	215.9	25.4	74
8"	F14	175	M16	298.4	343	36	500	457	22.2	8	200	269.9	28.6	123

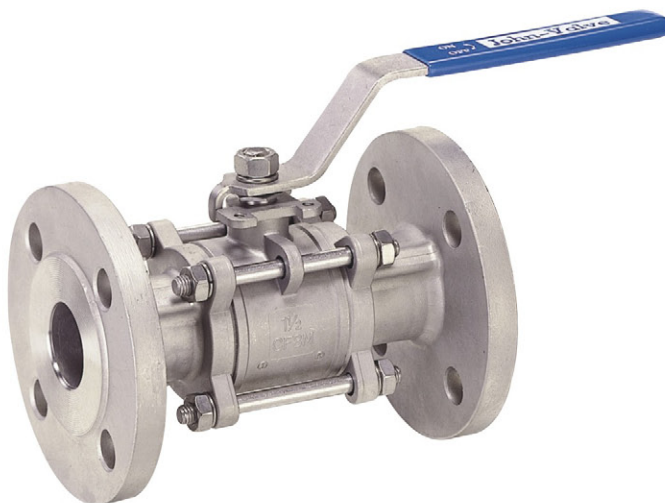
DIMENSIONS (mm):2FB/H Class 300

SIZE	ISO-5211			C	D	E	H	L	h	n	d	g	t	WT (KG)
		A	B											
6"	F12	125	M12	269.9	318	27	500	403	22.2	12	150	215.9	36.5	91
8"	F14	175	M16	330.2	381	36	500	502	25.4	12	200	269.9	41.3	155

3PC PN16/PN40 FLANGED BALL VALVE

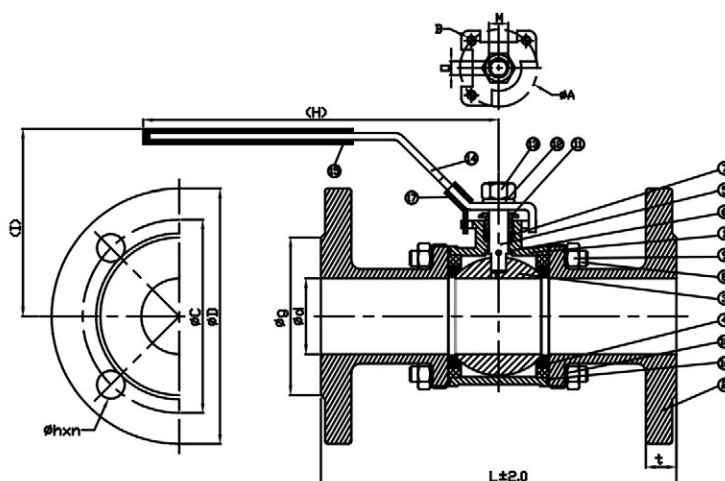
JV-9301NF (PN16 /PN40)

Design	EN12516
Feature	ISO-5211 Top Flange
Face-Face	EN558-1 GR. 1 Length, ISO-5752
Material	S/S; EN10213-4:1.4408; ASTM A351-CF8M C/S; EN10213-2:1.0619; ASTM A216-WCB
Flange	EN1092-1: PN16/PN40
Testing	According to EN12266-1,2 (API-598)
Certificate	EN10204-3.1
Temp.	-20 °C to 200 °C (-4 °F to 392 °F)
Seat	PTFE 15% GF (Reinforced Glassfiber)
Stem	AISI 316 Blow-out Proof with Anti-Static Device
Options	Gear Operator or Pneumatic Actuator



MATERIAL LIST

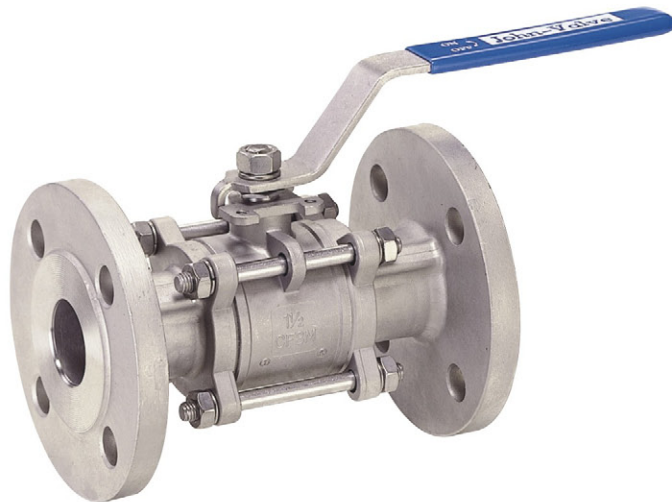
NO	PART	MATERIAL	
1	Body	CF8M = 1.4408	WCB = 1.0619
2	Cap	CF8M = 1.4408	WCB = 1.0619
3	Ball(Relief Hole)	CF8M = 1.4408	
4	Seat	PTFE 15% GF	
5	Anti-Static-Stem	AISI 316 = 1.4401	
6	Thrust Washer	PTFE	
7	Stem Packing	PTFE	
8	Bolt	A2 = A193-B8 = SUS 304	
9	Nuts	A2 = A194-8 = SUS 304	
10	Spring Washer	AISI 304 = 1.4301	
11	Gland Nuts	A2 = A194-8 = SUS 304	
12	Spring Washer	AISI 304 = 1.4301	
13	Handle Nuts	A2 = A194-8 = SUS 304	
14	Handle	AISI 304 = 1.4301	
15	Handle Sleeve	PVC	
16	Body Seal	PTFE	
17	Locking Device	AISI 304 = 1.4301	



DIMENSIONS (mm)

	SIZE		ISO- 5211			d	D	C	g	H	I	M	O	t	h	n	L	WT (KG)
	INCH	MM		A	B													
PN40	1/2"	15	F04	42	M5	15	95	65	45	138	78	9.5	6.5	16	14	4	130	2.19
	3/4"	20	F04	42	M5	20	105	75	58	138	84	9.5	6.5	18	14	4	150	2.90
	1"	25	F04	42	M5	25	115	85	68	168	89	11	8	18	14	4	160	3.67
	1-1/4"	32	F04	42	M5	32	140	100	78	168	97	11	8	18	18	4	180	5.56
	1-1/2"	40	F05	50	M6	40	150	110	88	230	114	12.5	9	18	18	4	200	7.25
	2"	50	F05	50	M6	49	165	125	102	230	121	12.5	9	20	18	4	230	9.31
	2-1/2"	65	F07	70	M8	65	185	145	122	290	178	19	12	22	18	8	290	16.39
	3"	80	F07	70	M8	80	200	160	138	290	185	19	12	24	18	8	310	20.96
	4"	100	F10	102	M10	100	235	190	162	285	183	25	16	24	22	8	350	35.98
PN16	4"	100	F10	102	M10	100	220	180	158	285	183	25	16	20	18	8	350	31.99

3PC CLASS 150 FLANGED BALL VALVE



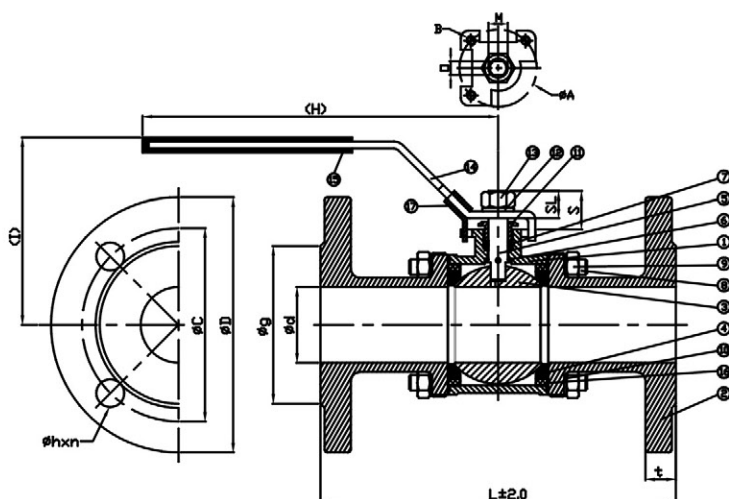
JV 9301NF(Class150)

Design	EN12516
Feature	ISO-5211 Top Flange
Face-Face	EN558-1 GR. 1 Length, ISO-5752
Material	S/S; EN10213-4:1.4408; ASTM A351-CF8M C/S; EN10213-2:1.0619; ASTM A216-WCB
Flange	ANSI-B16.5 Class 150
Testing	According to EN12266-1,2 (API-598)
Certificate	EN10204-3.1
Temp.	-20 °C to 200 °C (-4 °F to 392 °F)
Seat	PTFE 15% GF (Reinforced Glassfiber)
Stem	AISI 316 Blow-out Proof with Anti-Static Device
Options	Gear Operator or Pneumatic Actuator



MATERIAL LIST

NO	PART	MATERIAL	
1	Body	CF8M = 1.4408	WCB = 1.0619
2	Cap	CF8M = 1.4408	WCB = 1.0619
3	Ball(Relief Hole)	CF8M = 1.4408	
4	Seat	PTFE 15% GF	
5	Anti-Static-Stem	AISI 316 = 1.4401	
6	Thrust Washer	PTFE	
7	Stem Packing	PTFE	
8	Bolt	A2 = A193-B8 = SUS 304	
9	Nuts	A2 = A194-8 = SUS 304	
10	Spring Washer	AISI 304 = 1.4301	
11	Gland Nuts	A2 = A194-8 = SUS 304	
12	Spring Washer	AISI 304 = 1.4301	
13	Handle Nuts	A2 = A194-8 = SUS 304	
14	Handle	AISI 304 = 1.4301	
15	Handle Sleeve	PVC	
16	Body Seal	PTFE	
17	Locking Device	AISI 304 = 1.4301	



DIMENSIONS (mm)

SIZE		ISO 5211		d	D	C	g	H	I	M	O	t	h	n	L	S	SL	WT (KG)
INCH	MM		A	B														
1/2"	15	F04	42	M5	15	89	60.3	34.9	138	78	9.5	6.5	11.1	15.9	4	130	16	1.71
3/4"	20	F04	42	M5	20	98	69.8	42.9	138	84	9.5	6.5	11.1	15.9	4	150	16.6	2.08
1"	25	F04	42	M5	25	108	79.4	50.8	167	89	11	8	11.1	15.9	4	160	22.5	2.72
1-1/4"	32	F04	42	M5	32	117	88.9	63.5	168	97	11	8	12.7	15.9	4	180	22.7	4.01
1-1/2"	40	F05	50	M6	40	127	98.4	73	230	114	12.5	9	14.3	15.9	4	200	25.4	5.55
2"	50	F05	50	M6	49	152	120.6	92.1	230	121	12.5	9	15.9	19	4	230	25.6	8.26
2-1/2"	65	F07	70	M8	65	178	139.7	104.8	290	178	19	12	17.5	19	4	290	45	15.57
3"	80	F07	70	M8	80	190	152.4	127	290	185	19	12	19	19	4	310	40	20.48
4"	100	F10	102	M10	100	229	190.5	157.2	285	183	25	16	23.8	19	8	350	56	36.9

3-WAY THREADED STANDARD BORE BALL VALVE

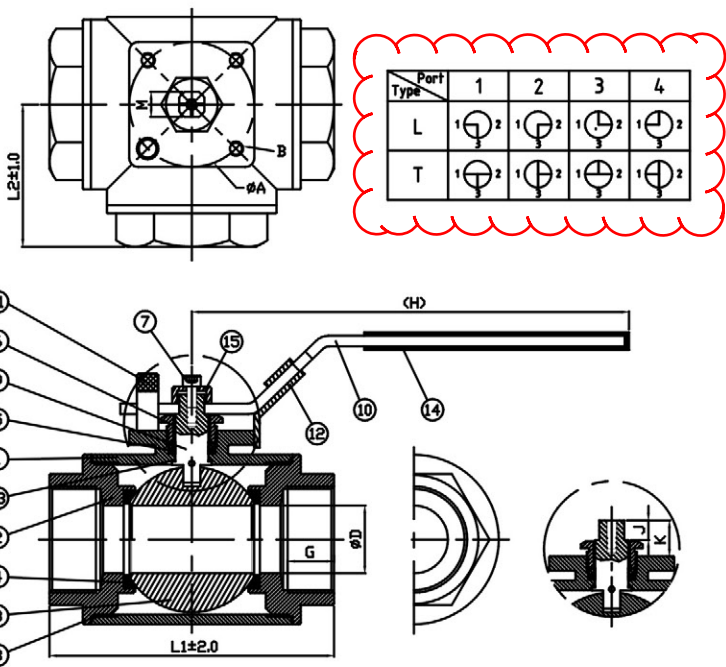
JV-9203

Feature	ISO-5211 Top Mounting Flange
	Square Stem, 360° Rotation
Port Bore	Standard Bore, T-port & L-port Available
End	NPT, BSPT, ISO-228 THREAD
Design	ASME B16.34
Material	S/S; EN10213-4:1.4408; ASTM A351-CF8M
	C/S; EN10213-2:1.0619; ASTM A216-WCB
Pressure	PN63 for DN8 to DN40
	PN40 for DN50
Testing	According to EN12266-1,2 (API-598)
Certificate	EN10204-3.1
Temp.	-20 °C to 200 °C (-4 °F to 392 °F)
Seat	PTFE (Virgin Pure PTFE)
Stem	AISI 316 Blow-out Proof Square Stem
Options	Gear Operator or Pneumatic Actuator



MATERIAL LIST

NO	PART	MATERIAL	
1	Body	CF8M = 1.4408	WCB = 1.0619
2	Cap	CF8M = 1.4408	WCB = 1.0619
3	Ball (Relief Hole)	CF8M=1.4408	
4	Seat	PTFE	
5	Stem Packing	PTFE	
6	Gland Nuts	A2 = A194-8 = SUS 304	
7	Hex Cap Screws	A2 = A193-B8 = SUS 304	
8	Body Seal	PTFE	
9	Stem (Anti-Static)	AISI 316 = 1.4401	
10	Handle	AISI 304 = 1.4301	
11	Stop Pin	AISI 304 = 1.4301	
12	Locking Device	AISI 304 = 1.4301	
13	Thrust Washer	PTFE	
14	Handle Sleeve	PVC	
15	Handle Ring	AISI 304 = 1.4301	



DIMENSIONS (mm)

SIZE	ISO-5211		D	G	H	L1	L2	J	K	M	WT (KG)	
		A B									T-P	L-P
1/4"	F04	42 M5	11	17	147	77.8	38.9	5.2	12.5	9	0.91	0.91
3/8"	F04	42 M5	11	17	147	77.8	38.9	5.2	12.5	9	0.87	0.89
1/2"	F04	42 M5	11	17	147	77.8	38.9	5.2	12.5	9	0.83	0.83
3/4"	F05	50 M6	15	18	191	85.5	42.8	7.1	15.2	9	1.39	1.40
1"	F05	50 M6	20	22	191	106.1	53.1	7	15.6	9	1.94	1.94
1-1/4"	F05	50 M6	25	21	230	123.1	61.6	7.7	16.5	11	3.11	3.13
1-1/2"	F07	70 M8	32	23	245	131.2	65.6	7.7	19	11	4.46	4.57
2"	F07	70 M8	40	26	245	159.4	79.7	11	18.7	14	7.45	7.68

BALL VALVE

3-WAY TRUNNION PN 40/PN16/CLASS 150/CLASS 300 FLANGED BALL VALVE



JV-9308

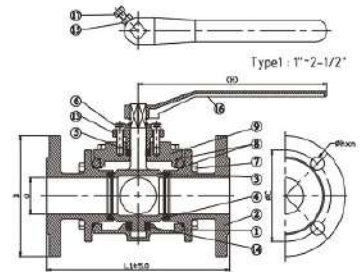
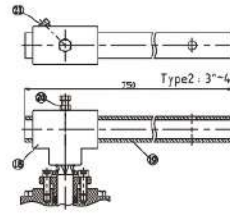
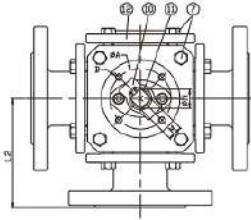
Feature	Square Stem, 360° Rotation Trunnion Ball Design
Port Bore	Full Bore, T-port & L-port Available
Design	EN12516-1:2000/ASME B16.34
Material	S/S; EN10213-4:1.4408; ASTM A351-CF8M C/S; EN10213-2:1.0619; ASTM A216-WCB
Flange	EN1092-1; PN16/PN40/ANSI B16.5 Class 150
Testing	According to EN12266-1.2 (API-598)
Certificate	EN10204-3.1
Temp.	S/S: -20°C to 200°C, C/S: -10° to 200°C
Seat	PTFE (Virgin Pure PTFE)
Stem	AISI 316 Blow-out Proof Square Stem
Options	Gear Operator or Pneumatic Actuator



MATERIAL LIST

NO	PART	MATERIAL	
01	Body	CF8M / 1.4408	Type 1
02	Flange Cap	CF8M / 1.4408	
03	Trunnion Ball	CF8M / 1.4408	
04	Seat	PTFE	
05	Stem Packing	PTFE	
06	Socket Head Cap Screws	A2 / A193-B8 / SUS 304	
07	Hex Cap Screws	A2 / A193-B8 / SUS 304	
08	Body Seal	PTFE	
09	Top Cap	CF8M / 1.4408	
10	Stop Plate	AISI 304 / 1.4301	
11	Retaining Rings For Shafts	AISI 304 / 1.4301	Type 2
12	Side Cap	CF8M / 1.4408	
13	Gland	AISI 304 / 1.4301	
14	Stem Bearing	PTFE	
15	Nuts	A2 / A194-8 / SUS 304	
16	Handle	CF8M / 1.4308	
17	Hex Cap Screws	A2 / A193-B8 / SUS 304	
18	Connector	AISI 304 / 1.4301	
19	Handle	AISI 304 / 1.4301	
20	Nuts	A2 / A194-8 / SUS 304	
21	Hex Cap Screws	A2 / A193-B8 / SUS 304	

Port Type	1	2	3	4
L				
T				



PN16 / DIMENSIONS (mm)

SIZE INCH	ISO-5211			C	D	H	L1	L2	M	N	d	h	n	WT (KG)	
	ΦA	B												L-Port	T-Port
2-1/2"	F10	102	M10	145	185	374	285	142.5	22	28	65	18	4	29.49	29.56
3"	F10	102	M10	160	200	374	297	148.5	22	28	76	18	8	42.80	42.41
4"	F10	102	M10	180	220	374	339	169.5	22	28	100	18	8	58.87	58.36

PN40 / DIMENSIONS (mm)

SIZE INCH	ISO-5211			C	D	H	L1	L2	M	N	d	h	n	WT (KG)	
	ΦA	B												L-Port	T-Port
1"	F05	50	M6	85	115	172	225	112.5	14	18	25	14	4	10.16	10.13
1-1/2"	F05	50	M6	110	150	258	242	121	17	22	40	18	4	15.27	15.18
2"	F07	70	M8	125	165	258	250	125	17	22	50	18	4	21.79	21.66
2-1/2"	F10	102	M10	145	185	374	285	142.5	22	28	65	18	8	29.86	29.65
3"	F10	102	M10	160	200	374	297	148.5	22	28	76	18	8	41.58	41.29
4"	F10	102	M10	190	235	374	339	169.5	22	28	100	22	8	61.43	60.93

CLASS 150 / DIMENSIONS (mm)

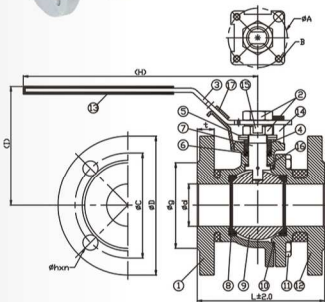
SIZE INCH	ISO-5211			C	D	H	L1	L2	M	N	d	h	n	WT (KG)	
	ΦA	B												L-Port	T-Port
1"	F05	50	M6	79.4	108	172	214	107	14	18	25	15.9	4	8.32	8.06
1-1/2"	F05	50	M6	98.4	127	258	242	121	17	22	40	15.9	4	13.47	13.39
2"	F07	70	M8	120.6	152	258	250	125	17	22	50	19	4	20.01	19.89
2-1/2"	F10	102	M10	139.7	178	374	285	142.5	22	28	65	19	4	28.43	28.50
3"	F10	102	M10	152.4	190	374	295	147.5	22	28	76	19	4	41.33	40.94
4"	F10	102	M10	190.5	229	374	339	169.5	22	28	100	19	8	61.24	60.74

CLASS 300 / DIMENSIONS (mm)

SIZE INCH	ISO-5211			C	D	H	L1	L2	M	N	d	h	n	WT (KG)	
	ΦA	B												L-Port	T-Port
1"	F05	50	M6	88.9	125	172	226	113	14	18	25	19	4	10.73	10.7
2"	F07	70	M8	127	15	258	266	133	17	22	50	19	8	23.84	23.71
3"	F10	102	M10	168.3	210	374	332	166	22	28	76	22.2	8	48.63	48.34
4"	F10	102	M10	200	255	374	394	194	22	28	100	22.2	8	84.05	83.55

BALL VALVE

2PC DISC-SPRING PN16/PN40/CLASS 150/CLASS 300 FLANGED BALL VALVE



JV-2FB	
Feature	ISO-5211 Top Flange, Ball with Relief Hole
Port Bore	Full Bore
Design	EN12516-1:2000/ASME B16.34
Face-Face	EN558-1 GR. 1/27 Length/ANSI B16.10
Material	S/S; EN10213:1.4408; ASTM A351-CF8M C/S; EN10213:1.0619; ASTM A216-WCB
Flange	EN1092-1: PN16/PN40/Class150/300
Testing	According to EN12266-1,2 (API-598)
Certificate	EN10204-3.1
Temp.	S/S:-20°C to 200°C, C/S:-10° to 200°C
Seat/Seal	PTFE (Virgin Pure PTFE)
Stem	AISI 316 Blow-out Proof with Anti-Static Device
Options	Padlocking Device Gear Operator or Pneumatic Actuator Seat of TFM-1600 for Longer Life Cycles Seat of TFM-4215 for higher temp. Graphite Seat/Gasket for API-607 4 th Edition Firesafe Approved available



MATERIAL LIST		
NO	PART	MATERIAL
01	Body	CF8M / 1.4408 WCB / 1.0619
02	Stem Nut	A2 / A194-8 / SUS 304
03	Handle	AISI 304 / 1.4301
04	Gland Ring	AISI 304 / 1.4301
05	Belleville Disc	AISI 301 / 1.4310
06	Stem Packing	PTFE/GRAPHITE
07	Stem (Anti-Static)	AISI 316 / 1.4401
08	Seat	PTFE
09	Ball (Relief Hole)	CF8M=1.4408
10	Body Seal	PTFE/GRAPHITE
11	Hex Cap Screws	A2 / A193-B8 / SUS 304
11.1	Stud	A2 / A193-B8 / SUS 304
11.2	Nuts	A2 / A194-8 / SUS 304
12	Cap	CF8M / 1.4408 WCB / 1.0619
13	Handle Sleeve	PVC
14	Stop Pin	AISI 304 / 1.4301
15	Nut Stopper	AISI 304 / 1.4301
16	Thrust Washer	PTFE/GRAPHITE
17	Locking Device	AISI 304 / 1.4301

PN16 / DIMENSIONS (mm)

SIZE		ISO-5211		d	D	C	g	t	h	n	H	I	L		WT (KG)	
INCH	MM	ΦA	B										GR1	GR27	GR1	GR27
2-1/2"	65	F07	M8	65	185	145	122	18	18	8	278	153	290	170	16.02	14.07
3"	80	F10	M10	80	200	160	138	20	18	8	375	185	310	180	23.31	20.86
4"	100	F10	M10	100	220	180	158	20	18	8	375	196	350	190	30.78	25.95

PN40 / DIMENSIONS (mm)

SIZE		ISO-5211		d	D	C	g	t	h	n	H	I	L		WT (KG)	
INCH	MM	ΦA	B										GR1	GR27	GR1	GR27
1/2"	15	F04	M5	15	95	65	45	16	14	4	165	86	130	115	2.37	2.34
3/4"	20	F04	M5	20	105	75	58	18	14	4	165	92	150	120	3.29	3.13
1"	25	F05	M6	25	115	85	68	18	14	4	176	108	160	125	4.40	4.20
1-1/4"	32	F05	M6	32	140	100	78	18	18	4	215	116	180	130	6.18	5.70
1-1/2"	40	F05	M6	38	150	110	88	18	18	4	215	119	200	140	7.47	6.97
2"	50	F07	M8	50	165	125	102	20	18	4	278	142	230	150	13.49	11.20
2-1/2"	65	F07	M8	65	185	145	122	22	18	8	278	153	290	170	16.81	14.11
3"	80	F10	M10	80	200	160	138	24	18	8	375	185	310	180	24.54	20.84
4"	100	F10	M10	100	235	190	162	24	22	8	375	196	350	190	32.90	30.51

CLASS 150 / DIMENSIONS (mm)

SIZE		ISO-5211		d	D	C	g	t	h	n	H	I	L	WT (KG)
INCH	MM	ΦA	B											
1/2"	15	F04	M5	15	89	60.3	34.9	11.1	15.9	4	165	86	108	1.67
3/4"	20	F04	M5	20	98	69.8	42.9	11.1	15.9	4	165	92	117	2.22
1"	25	F05	M6	25	108	79.4	50.8	11.1	15.9	4	176	106	127	3.13
1-1/4"	32	F05	M6	32	117	88.9	63.5	12.7	15.9	4	215	114	140	4.47
1-1/2"	40	F05	M6	38	127	98.4	73	14.3	15.9	4	215	116	165	5.45
2"	50	F07	M8	50	152	120.6	92.1	15.9	19	4	278	136	178	10.10
2-1/2"	65	F07	M8	65	178	139.7	104.8	17.5	19	4	278	150	190	13.81
3"	80	F10	M10	80	190	152.4	127	19	19	4	375	185	203	20.33
4"	100	F10	M10	100	229	190.5	157.2	23.8	19	8	375	200	229	30.22

CLASS 300 / DIMENSIONS (mm)

SIZE		ISO-5211		d	D	C	g	t	h	n	H	I	L	WT (KG)
INCH	MM	ΦA	B											
1/2"	15	F04	M5	15	95	66.7	34.9	14.3	15.9	4	165	86	140	2.13
3/4"	20	F04	M5	20	117	82.6	42.9	15.9	19	4	165	92	152	3.24
1"	25	F05	M6	25	124	88.9	50.8	17.5	19	4	176	106	165	4.75
1-1/4"	32	F05	M6	32	133	98.4	63.5	19	19	4	215	114	178	6.21
1-1/2"	40	F05	M6	38	156	114.3	73	20.6	22.2	4	215	116	190	8.48
2"	50	F07	M8	50	165	127	92.1	22.2	19	8	278	136	216	12.41
2-1/2"	65	F07	M8	65	190	149.2	104.8	25.4	22.2	8	278	150	241	18.28
3"	80	F10	M10	80	210	168.3	127	28.6	22.2	8	375	185	283	26.87
4"	100	F10	M10	100	254	200	157.2	31.8	22.2	8	375	200	305	39.90

HIGH PRESSURE TRUNNION MOUNTED BALL VALVE

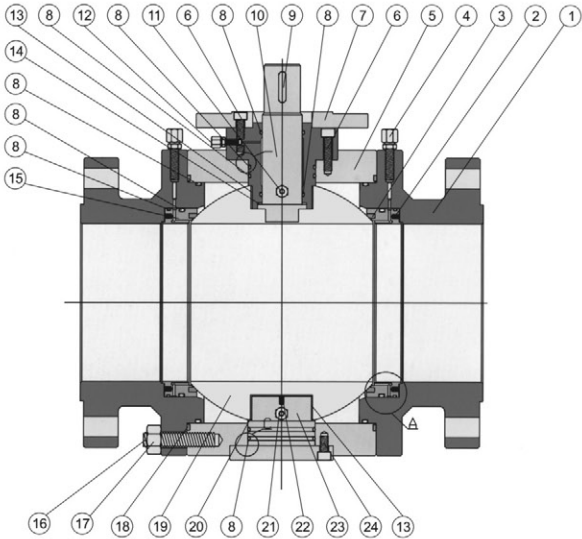
JV-3T-HF 600/900/1500/2500

FEATURES

SIZE	2"~24"
CLASS	600~2500
MATERIAL	ASTM A105 A182-F304, F316, F316L, F304L, F51
STEM	BLOW-OUT PROOF STEM/ ANTI-STATIC DEVICE
OTHER	EMERGENCY SEALANT INJECTOR VENT VALVE
	VENT VALVE , DRAIN VALVE

SPECIFICATIONS

Design	ASME B16.34/API 6D
Face to Face	ASME B16.10/API 6D
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 6D
Special	NACE MR-01-75
FIRE SAFE TEST	API 607/API 6FA



HIGH PRESSURE

05 MATERIAL SPECIFICATIONS

NO	PART	MATERIAL
1	Bonnet	ASTM A105 A182-F304, F316, F316L, F304L, F51
2	Seat Spring	Inconel X-7505 SS304 SS316
3	Seat	PTFE RPTFE PEEK PPL
4	Seat Injection	1020+ZN A182-F304, F316, F316L
5	Body	ASTM A105 A182-F304, F316, F316L, F304L, F51
6	Screw	ASTM A193-B7, B8
7	Top Flange	ASTM A105 A182-F304
8	"o"-ring	NBR Viton
9	Key	1045 A182-F304, F316, F316L, F304L
10	Stem	A105+ENP A182-F6, F304, F316, F316L, F304L, 17-4PH, F51
11	Vent Valve	1020+ZN A182-F304, F316, F316L
12	Stem Injection	1020+ZN A182-F304, F316, F316L
13	Sliding Bearing	Stainless Steel+PTFE SS316+PTFE
14	Thrust Washer	PTFE
15	Seat Ring	A105+ENP A182-F6, F304, F316, F316L, F304L, F51, F6
16	Stud	ASTM 193-B7, B7M, B8, B8M
17	Nut	ASTEM 194-2H, 2HM, 8, 8M
18	Body Gasket	PTFE SS304+Graphite SS316+Graphite
19	Ball	A105+ENP ASTM A182-F6, F304, F316, F316L, F304L, F51
20	Lower Gasket	PTFE
21	Drain Valve	1020+ZN A182-F304, F316, F316L
22	Antistatic Spring	Stainless Steel SS316
23	Trunnion	A105+ENP A182-F6, F304, F316, F316L, F304L, F51
24	Screw	ASTM A193-B7, B8
25	Seat Sealing	Graphite
26	Gand Gasket	SS304+Graphite
27	Bottom Cover Gasket	SS304+Graphite

TRUNNION BALL VALVE