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WAFER TYPE BALL VALVES

MD - 57D



Design Feature

- Full Bore
- 1/2 – 4 (DN15- DN100)
- Blow-out proof stem
- Anti-static design
- ISO 5211 Direct mounting
- Fact To Face MFG Standard
- EN1092-1 PN16 RF

Body	ASTM A351 Gr.CF8M (EN 1.4408)
Ball / Stem	CF8M / SS316
Seat	PTFE
Temperature Range	-4 to 356 °F (-20 to 180 °C)

JACKETED BALL VALVES

MD - 22J



Design Feature

- Full Bore
- 1/2
- Blow-out proof stem
- Anti-static design
- ISO 5211 mounting flange
- ANSI B16.5 Class 150 RF
EN1092-1 PN10/16
JIS 2010 10K

Body	ASTM A351 Gr.CF8M (EN1.4408)
Ball / Stem	CF8M / SS316
Seat	50%PTFE + 50% S
Temperature Range	-4 to 356 °F (-20 to 180 °C)

3 WAY BALL VALVES

K-302 3 Way L / T port



Design Feature

- Standard Bore
- 1/4" – 2" (DN8 - DN50)
- Blow-out proof stem
- 3 seats design

Body	ASTM A351 Gr.CF8M (1.4408)
Ball / Stem	CF8M / SS316
Seat	PTFE
End Connection	Threaded end
Temperature Range	-4 to 356 °F (-20 to 180 °C)
Working Pressure	1/4" – 2" 1000 psi (PN 63)

KF-314 .3 WAYS L / T PORT



Design Feature

- Full Bore
- 1/2" – 6" (DN15 - DN150)
- Split body , Floating type
- Blow-out proof stem
- Anti-static design
- ISO 5211 direct mounting for 1/2"-3"
ISO 5211 mounting flange for 4"-6"
- Fact To Face : MFG Standard
- ANSI B16.5 Class 150 RF
EN 1092-1 PN10/16/25/40 RF
JIS 2010 10K

Body	ASTM A351 Gr.CF8M (1.4408)
Ball / Stem	CF8M / SS316
Seat	RTFE
Temperature Range	-4 to 356 °F (-20 to 180 °C)

TRUNNION MOUNTED BALL VALVES

MD-67 2 PIECES



Design Feature

- Reduced Bore
- 3" – 20" (DN80 - DN500)
- API 6FA fire safe design
- Blow-out proof stem
- Anti-static design
- ANSI B16.10 Class 150/300
- ANSI B16.5 Class 150/300 RF

Body	ASTM A216 Gr.WCB / CF8M
Ball / Stem	CF8M / SS316
Seat	PTFE / Nylon
Temperature Range	-4 to 356 °F (-20 to 180 °C)

MD-68 2 PIECES



Design Feature

- Full Bore
- 2" – 16" (DN50 - DN400)
- API 6FA fire safe design
- Blow-out proof stem
- Anti-static design
- ANSI B16.10 Class 150/300
- ANSI B16.5 Class 150/300 RF

Body	ASTM A216 Gr.WCB / CF8M
Ball / Stem	CF8M / SS316
Seat	PTFE / Nylon
Temperature Range	-4 to 356 °F (-20 to 180 °C)





V-105



Design Feature

- Full Bore
- 1/4 – 4 (DN8 - DN100)
- Blow-out proof stem
- End connections : Threaded end
Socket Weld end / Butt Weld end
3A Tube end / Tri-Clamp end
- Options
 1. Locking device
 2. Face to Face : DIN 3202 M3/S13

Body	ASTM A351 Gr.CF8M (1.4408)
Ball / Stem	CF8M / SS316
Seat	PTFE
Temperature Range	-4 to 356 °F (-20 to 180 °C)
Working Pressure	1/4" - 2" 1000 psi (PN63)
	2-1/2 - 4 800 psi (PN40)

V-105M



Design Feature

- Full Bore
- 1/4 – 4 (DN8 - DN100)
- Blow-out proof stem
- ISO 5211 mounting flange
- Locking handle
- End connections : Threaded end
Socket Weld end / Butt Weld end
- Options :
 - Face to Face : DIN 3202 M3/S13

Body	ASTM A351 Gr.CF8M (1.4408)
Ball / Stem	CF8M / SS316
Seat	PTFE
Temperature Range	-4 to 356 °F (-20 to 180 °C)
Working Pressure	1/4" - 2" 1000 psi (PN63)
	2-1/2 - 4 800 psi (PN40)

V-105W



Design Feature

- Full Bore
- 1/2 – 4 (DN15 - DN100)
- Blow-out proof stem
- End connections :
Ext. Butt Weld
- Option : Locking device

Body	ASTM A351 Gr.CF8M (1.4408)
Ball / Stem	CF8M / SS316
Seat	PTFE
Temperature Range	-4 to 356 °F (-20 to 180 °C)
Working Pressure	1/2" - 2" 1000 psi (PN63)
	2-1/2 - 4 800 psi (PN40)

V-155



Design Feature

- Full port : 1/4" – 2-1/2" (DN8-DN65)
- Reduced port : 3/8"– 2-1/2" (DN10-DN65)
- Blow-out proof stem , Anti-static design
- ISO 5211 mounting flange
- Handle with locking device
- End connection : Thread end,
Socket weld, Butt weld end

Body	ASTM A351 Gr.CF8M (1.4408)
Ball / Stem	CF8M / SS316
Seat	RTFE
Working Pressure	1/4" - 1" 2000 psi (PN 140)
	1-1/4" – 2" 1500 psi (PN100)
	2-1/2" 1000 psi (PN 63)

V-255



Design Feature

- Full port : 1/4"– 2" (DN8-DN50)
- Reduced port : 1/2"– 2-1/2" (DN15-DN65)
- Blow-out proof stem, Anti-static design
- ISO 5211 mounting flange
- Handle with locking device
- End connection : Thread end,
Socket weld, Butt weld end

Body	ASTM A351 Gr.CF8M (1.4408)
Ball / Stem	CF8M / SS316
Seat	RTFE
Working Pressure	1/4" - 1" 2000 psi (PN 140)
	1-1/4" - 2" 1500 psi (PN100)

V-755



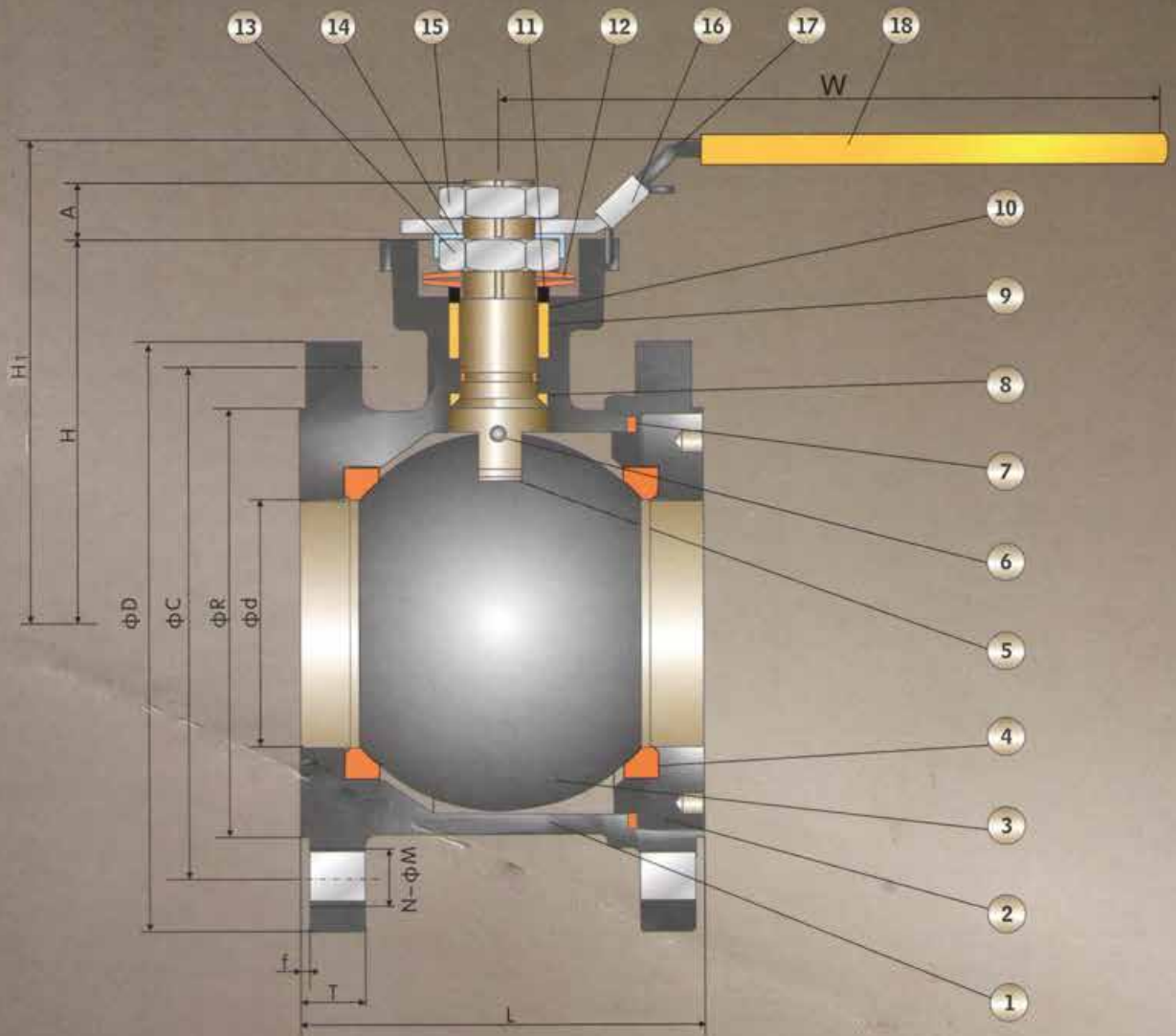
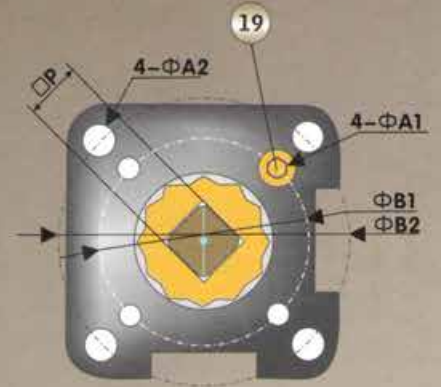
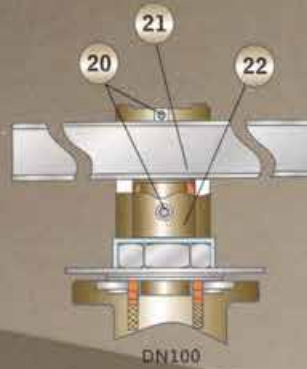
Design Feature

- Reduced Bore/ 3 PIECES design
- 1/4"-2" (DN 8-DN 50)
- Blow-out-proof stem design
- Forged Steel components
- Four Point ISO 5211 mounting
Pad Bolt Circle
- Available carbon and Stainless
Steel construction
- End Connection: Threaded,
Socket weld, Butt weld

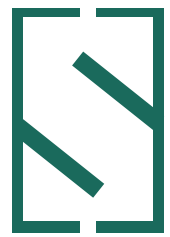
Body	ASTM A105 / F316
Ball / Stem	CF8M / SS 316
Seat	RTFE (15% glass fiber filled)
Working pressure	1500 psi
Temperature Range	-4 to 356 °F (-20 to 480 °C)



1 PC BODY HIGH PLATFORM FLOATING TYPE / WAFER TYPE BALL VALVE



1 PC BODY HIGH PLATFORM FLOATING TYPE / WAFER TYPE BALL VALVE



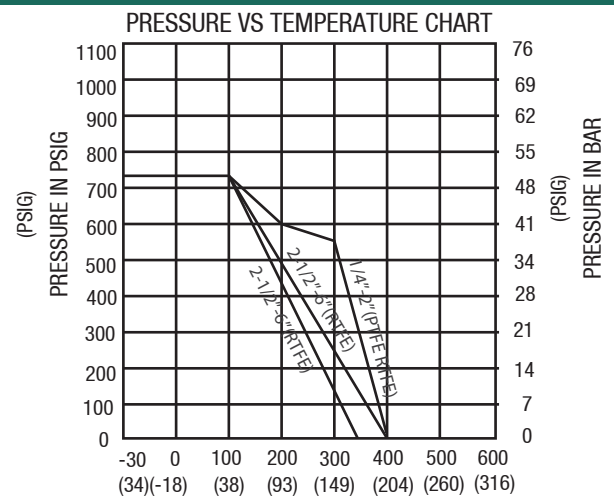
Main appearance and connection size table

SIZE	Φd	ΦR	ΦC	ΦD	f	T	L	H1	H	A	P	N	ΦM	W	ΦA1	ΦA2	ΦB1	ΦB2
DN15 1/2"	15	34.9	60.3	90.0	2	10	42	77	46	9	9	4	16	135.0	6	6	36	42
DN20 3/4"	20	42.9	69.9	100	2	10.9	44	85	51	9	9	4	16	135.0	6	7	36	42
DN25 1"	25	50.8	79.4	110	2	11.6	50	94	62	11	11	4	16	170.0	6	7	42	50
DN32 1-1/4"	32	63.5	88.9	115	2	13.2	60	104	72	11	11	4	16	170.0	6	9	42	50
DN40 1-1/2"	40	73	98.4	125	2	14.7	65	114	78	14	14	4	16	200.0	7	9	50	70
DN50 2"	50	92.1	120.7	150	2	16.3	80	120	86	14	14	4	19	200.0	7	9	50	70
DN65 2-1/2"	65	104.8	139.7	180	2	17.9	110	158	108	17	17	4	19	300.0	9	11	70	102
DN80 3"	80	127	152.4	190	2	19.5	120	165	116	17	17	8	19	300.0	9	11	70	102
DN100 4"	100	157.2	190.5	230	2	24.3	150	182	139	22	22	8	19	400.0	NON	11	NON	102
DN125 5"	125	185.7	215.9	255	2	24.3	180	224	176	27	27	8	22.2	500.0	14	NON	125	NON
DN150 6"	150	215.9	241.3	280	2	25.9	225	268	192	27	27	8	22.2	800.0	14	NON	125	NON

Main parts and materials

NO.	Parts Description	Material		
1	Body	CF8M	CF8	WCB
2	End Piece	CF8M	CF8	WCB
3	Ball	316	304	
4	Seat	PTFE		
5	Stem	316	304	S.S 410
6	Anti-Static	304		
7	Body Gasket	PTFE		
8	Thrust Washer	PTFE		
9	Filling			
10	Transition Spacer	304		
11	Filling Clamping ring	304		
12	Butterfly Spring	304		
13	Nut	304		
14	Loose Resistant cover	304		
15	Handle Nut	304		
16	Lock Device	304		
17	Handle	304		
18	Handle Sleeve			
19	Stop Bolt	304		
20	Set Screwed	304		

TEMPERATURE CHART



SPECIFICATIONS:

Working Pressure: 1.6-4.0Mpa

Temperature Range: -20~232°C~350°C

Suitable Medium: Water, oil, air and some Corrosive liquid

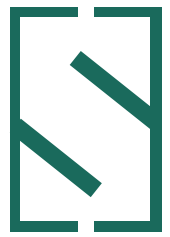
Design: BS 5351 / API 6D **FACE TO FACE:** MFG. STD

End Flange: AMSE B16.5

Fire Safe: API 607

Inspection & Testing: API 598

TRUNNION MOUNTED BALL VALVE



API Series main connection size

CLASS 150Lb

DN(mm)	L	D	K	d	Y	b	Z-do	Ws	Hs	Hw	Hd
6"	394	280	241.5	216	—	26	8-22	1000	305	470	540
8"	457	345	298.5	270	—	29	8-22	—	—	520	580
10"	533	405	362	324	—	31	12-25	—	—	610	640
12"	610	485	432	381	—	32	12-25	—	—	650	690
14"	686	535	476	413	—	35	12-29	—	—	740	785
16"	762	595	540	470	—	37	16-29	—	—	795	830
18"	864	635	578	533	—	40	16-32	—	—	860	910
20"	914	700	635	584	—	43	20-32	—	—	945	990
24"	1067	815	749.5	692	—	48	20-35	—	—	1040	1090

CLASS 300Lb

DN(mm)	L	D	K	d	Y	b	Z-do	Ws	Hs	Hw	Hd
6"	403	320	270	216	—	37	12-22	1200	340	485	590
8"	502	381	330	270	—	42	12-25	—	—	580	640
10"	568	445	387.5	324	—	48	16-29	—	—	665	680
12"	648	520	451	381	—	51	16-32	—	—	760	810
14"	762	585	514.5	413	—	54	20-32	—	—	820	890
16"	838	650	571.5	470	—	58	20-35	—	—	860	940
18"	914	710	628.5	533	—	61	24-35	—	—	930	1010



5



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