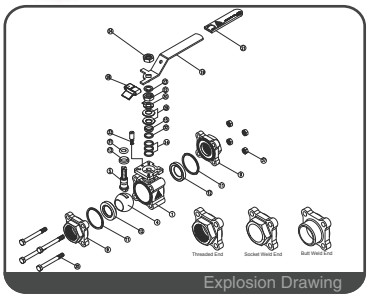
MODENTIC

VF-355

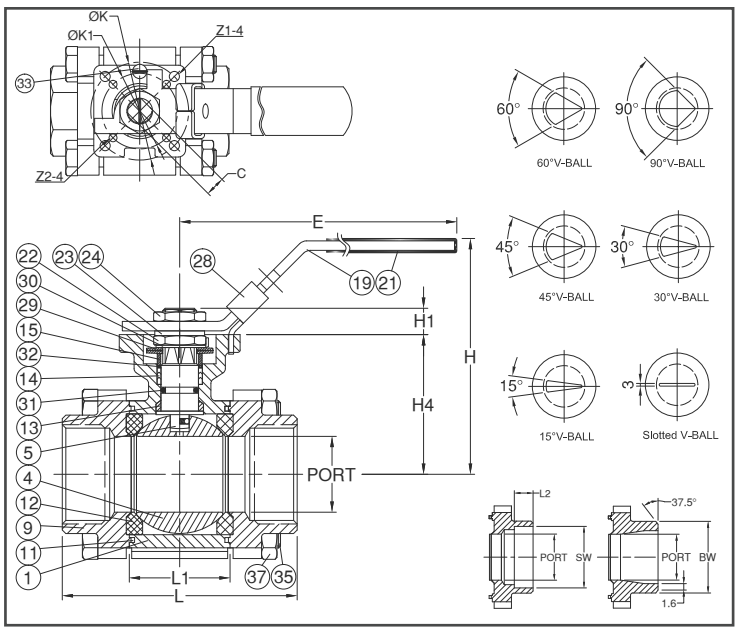
Direct Mount V Ball Valve

15°/30°/45°/60°/90°/Slotted V-Ball
2000/1500/1000 PSI
1/4" ~ 4"

CRN CERTIFICATED



Explosion Drawing



FEATURES

AUTOMATION AVAILABLE

- Investment Cast Body Construction
- 3 Pieces Body Design
- ISO 5211 Direct Mounting Flange
- Available for 15° 、30° 、45° 、60° 、90° 、Slotted V-Ball
- Blow-Out-Proof Stem Design & Anti-Static Device
- Integral Seat & Body Seal Design for 2-1/2" ~ 4"
- Available for Pneumatic or Electric Actuator
- NACE MR0175 is available upon request
- Super Alloy materials for highly corrosive medium are available upon request

SPECIFICATIONS

• Size Range	1/4" ~ 4" (DN8 ~ DN100)
• End Connection	Threaded / Socket / Butt Weld Ends
• Working Pressure	2000 PSI (CWP) for 1/4" ~ 1"
	1500 PSI (CWP) for 1-1/4" ~ 2"
	1000 PSI (CWP) for 2-1/2" ~ 4"

STANDARDS

• Design	ASME/ANSI B16.34
• Mounting Flange	ISO 5211
• Threaded End	NPT/ BS 21 (BSP) / BSPT / ISO 228-1 / DIN 2999 / ISO 7-1Rp
• Socket Weld End	ASME/ANSI B16.11
• Butt Weld End	ASME/ANSI B16.25
• Face to Face	MFG
• Material	ASTM
• Pressure Testing	API 598

CERTIFICATE

• Quality Assurance	ISO 9001
• Material Certificate	EN 10204-3.1 MTR
• CE Approval	PED 2014/68/EU Module H
• Canadian Certificate	CRN

MATERIAL LIST

NO.	PART NAME	MATERIAL (more options available)	
1	BODY	ASTM A351 Gr.CF8M	ASTM A216 Gr.WCB
4	BALL	ASTM A351 Gr.CF8M	
5	STEM	ASTM A276 Gr.316	
9	END CAP	ASTM A351 Gr.CF8M	ASTM A216 Gr.WCB
11	BODY SEAL	PTFE.	
12	SEAT	RPTFE	
13	THRUST WASHER	RPTFE	
14	STEM PACKING	RPTFE	
15	GLAND BUSH	SS304	
19	HANDLE	SS304	
21	HANDLE COVER	PLASTIC	
22	STEM NUT	SS304	
23	HANDLE WASHER	SS304	
24	HANDLE NUT	SS304	
28	LOCKING DEVICE	SS304	
29	BELLEVILLE WASHER	SS304-CSP	
30	TAB WASHER	SS304	
31	STEM O-RING	VITON®	
32	PACKING FOLLOWER	RPTFE	
33	STOP PIN	SS304	
35	BODY BOLT	SS304	
37	BOLT NUT	SS304	

DIMENSION

unit : mm

SIZE		PORT TH/SW	PORT BW	L TH/SW	L BW	L1	E	H	H1	H4	C	ØK		ØK1		Z1	Z2	L2	SW	BW
DN8	1/4"	11.5	11.0	56.1	62.5	22.5	112.0	72.9	8.5	37.0	9.0	50	F05	36	F03	7.0	6.0	10.0	14.2	13.7
DN10	3/8"	12.5	12.5	56.1	62.5	22.5	112.0	72.9	8.5	37.0	9.0	50	F05	36	F03	7.0	6.0	10.0	17.5	17.1
DN15	1/2"	15.0	15.0	68.0	66.1	22.5	112.0	72.9	8.5	37.0	9.0	50	F05	36	F03	7.0	6.0	10.0	21.8	21.3
DN20	3/4"	20.0	20.0	76.1	77.1	27.5	112.0	81.8	8.5	45.0	9.0	50	F05	36	F03	7.0	6.0	13.0	27.4	26.7
DN25	1"	25.0	25.0	84.6	83.6	34.0	136.0	90.5	9.5	53.5	9.0	50	F05	36	F03	7.0	6.0	13.0	34.1	33.4
DN32	1-1/4"	32.0	32.0	98.1	96.1	42.5	185.0	98.0	9.5	59.0	9.0	50	F05	36	F03	7.0	6.0	13.0	42.7	42.2
DN40	1-1/2"	38.0	38.0	111.2	107.2	52.0	197.9	114.7	14.0	74.8	14.0	70	F07	50	F05	9.0	7.0	13.0	49.0	48.3
DN50	2"	50.0	50.0	126.7	118.5	63.5	197.9	124.0	13.7	83.5	14.0	70	F07	50	F05	9.0	7.0	16.0	61.0	60.3

DIMENSION

unit : inch

SIZE		PORT TH/SW	PORT BW	L TH/SW	L BW	L1	E	H	H1	H4	C	ØK		ØK1		Z1	Z2	L2	SW	BW
DN8	1/4"	0.45	0.43	2.21	2.46	0.89	4.41	2.87	0.33	1.46	0.35	1.97	F05	1.42	F03	0.28	0.24	0.39	0.56	0.54
DN10	3/8"	0.49	0.49	2.21	2.46	0.89	4.41	2.87	0.33	1.46	0.35	1.97	F05	1.42	F03	0.28	0.24	0.39	0.69	0.67
DN15	1/2"	0.59	0.59	2.68	2.60	0.89	4.41	2.87	0.33	1.46	0.35	1.97	F05	1.42	F03	0.28	0.24	0.39	0.86	0.84
DN20	3/4"	0.79	0.79	3.00	3.04	1.08	4.41	3.22	0.33	1.77	0.35	1.97	F05	1.42	F03	0.28	0.24	0.51	1.08	1.05
DN25	1"	0.98	0.98	3.33	3.29	1.34	5.35	3.56	0.37	2.11	0.35	1.97	F05	1.42	F03	0.28	0.24	0.51	1.34	1.31
DN32	1-1/4"	1.26	1.26	3.86	3.78	1.67	7.28	3.86	0.37	2.32	0.35	1.97	F05	1.42	F03	0.28	0.24	0.51	1.68	1.66
DN40	1-1/2"	1.50	1.50	4.38	4.22	2.05	7.79	4.52	0.55	2.94	0.55	2.76	F07	1.97	F05	0.35	0.28	0.51	1.93	1.90
DN50	2"	1.97	1.97	4.99	4.67	2.50	7.79	4.88	0.54	3.29	0.55	2.76	F07	1.97	F05	0.35	0.28	0.63	2.40	2.37

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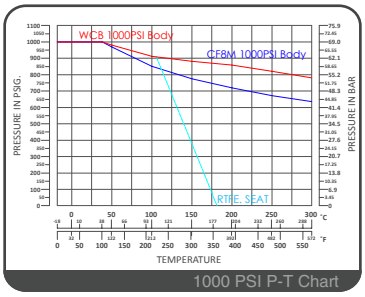
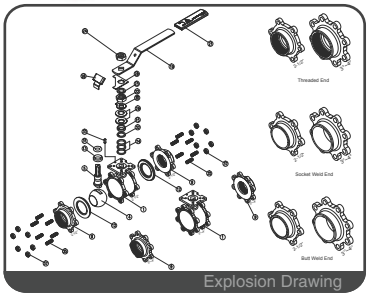


1000 PSI P-T Chart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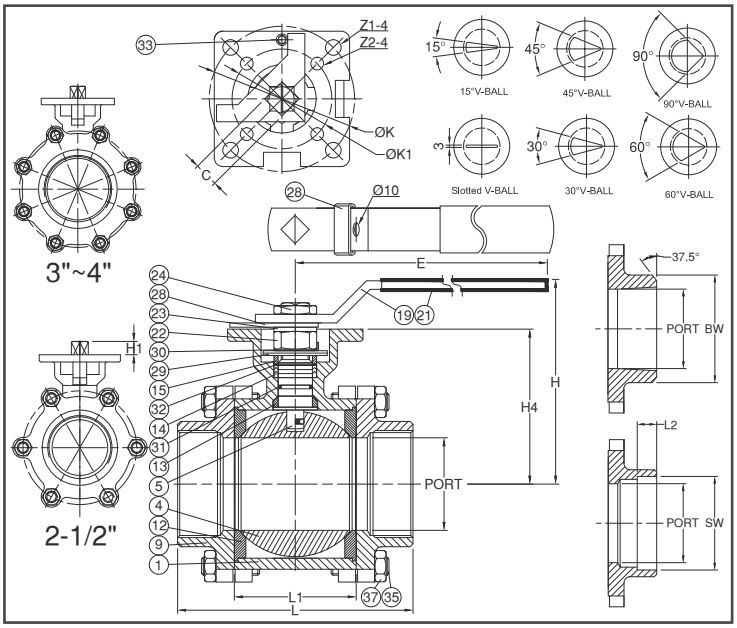

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• Working Pressure	2000 PSI (CWP) for 1/4" ~ 1"
	1500 PSI (CWP) for 1-1/4" ~ 2"
	1000 PSI (CWP) for 2-1/2" ~ 4"
• Steam Pressure	150 PSIG. Saturated Steam for RTFE.
• Temperature Range	-4 to 356 °F (-20 to 180 °C) for RTFE.

STANDARDS

• Design	ASME/ANSI B16.34
• Mounting Flange	ISO 5211
• Threaded End	NPT/ BS 21 (BSP) / BSPT / ISO 228-1 / DIN 2999 / ISO 7-1Rp
• Socket Weld End	ASME/ANSI B16.11
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• Face to Face	MFG
• Material	ASTM
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5	STEM	ASTM A276 Gr.316	
9	END CAP	ASTM A351 Gr.CF8M	ASTM A216 Gr.WCB
12	SEAT	PTF.+50%SS316 Powder	
13	THRUST WASHER	RTFE.(15%G.F.)	
14	STEM PACKING	RTFE.(15%G.F.)	
15	GLAND BUSH	SS304	
19	HANDLE	SS304	
21	HANDLE COVER	PLASTIC	
22	STEM NUT	SS304	
23	HANDLE WASHER	SS304	
24	HANDLE NUT	SS304	
28	STOP PLATE	SS304	
29	BELLEVILLE WASHER	SS304-CSP	
30	TAB WASHER	SS304	
31	O-RING	VITON®	
32	PACKING FOLLOWER	PTFE.+25%G.F.	
33	STOP PIN	SS304	
35	BODY BOLT	SS304	
37	BOLT NUT	SS304	

DIMENSION unit : mm

SIZE		PORT TH/SW	PORT BW	L TH/SW	L BW	L1	E	H	H1	H4	C	ØK		ØK1		Z1	Z2	L2	SW	BW
DN65	2-1/2"	65.0	62.7	165.0	158.5	85.5	267	155.0	18	108.8	17	102	F10	70	F07	11	9	16	77.0	73.0
DN80	3"	80.0	80.0	208.0	187.2	102.0	267	208.5	18	118.3	17	102	F10	70	F07	11	9	16	90.2	88.9
DN100	4"	100.0	100.0	232.5	219.0	128.5	322	216.7	18	153.8	17	102	F10	70	F07	11	9	20	115.5	114.3

DIMENSION unit : inch

SIZE		PORT TH/SW	PORT BW	L TH/SW	L BW	L1	E	H	H1	H4	C	ØK		ØK1		Z1	Z2	L2	SW	BW
DN65	2-1/2"	2.56	2.47	6.50	6.24	3.37	10.51	6.10	0.71	4.28	0.67	4.02	F10	2.76	F07	0.43	0.35	0.63	3.03	2.87
DN80	3"	3.15	3.15	8.19	7.37	4.02	10.51	8.21	0.71	4.66	0.67	4.02	F10	2.76	F07	0.43	0.35	0.63	3.55	3.50
DN100	4"	3.94	3.94	9.15	8.62	5.06	12.68	8.53	0.71	6.06	0.67	4.02	F10	2.76	F07	0.43	0.35	0.79	4.55	4.50

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