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ALLOY 20

MD-82

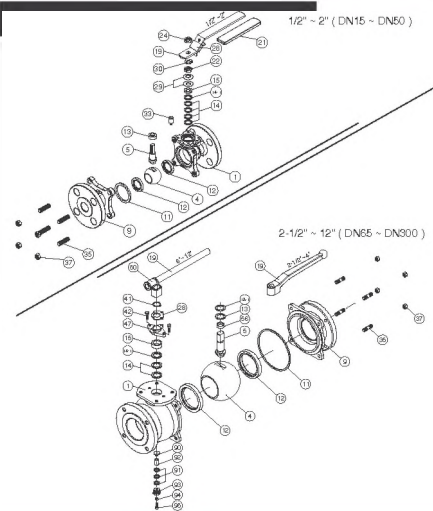
ANSI Class 150
2-PC Flanged Ball Valves



API 607 6th Edition
ISO 10497
Fugitive Emission
Full Bore
ISO 5211 Mounting
2 Piece Body Design

AVAILABLE MATERIAL

- ALLOY 20
- HASTELLOY® C-276
- DUPLEX 2205
- DUPLEX 2507
- MONEL®
- SS904L



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FEATURES

- Investment Cast Body Construction
- 2 Pieces Body Design
- ISO 5211 Mounting Flange
- Blow-Out-Proof Stem Design
- Available for Pneumatic or Electric Actuator
- NACE MR0175 is available upon request
- Other Super Alloy materials for highly corrosive medium are available upon request

STANDARD

- Design ASME/ANSI B16.34 / API 608
- Mounting Flange ISO 5211
- Face to Face ASME/ANSI B16.10 Class 150
- Flange Dimension ASME/ANSI B16.5 Class 150 RF
- Material ASTM
- Pressure Testing API 598

CERTIFICATE

- Fire Safe API 607 6th Edition / ISO 10497 Certified
- Fugitive Emission TA-LUFT
- Quality Assurance ISO 9001
- Material Certificate EN 10204-3.1 MTR
- CE Approval PED 97/23/EC Module H
- Canadian Certificate CRN

MATERIAL

№	PART NAME	MATERIAL (more options available)
1	BODY	ASTM A351 Gr.CN7M
4	RAFT	ASTM A351 Gr.CN7M
5	STEM	N08020
9	END CAP	ASTM A351 Gr.CN7M
11	BODY SEAL	GRAPHITE+SS316 (SPIRAL WOUND)
12	SEAT	RTFE.(15%G.F.)
13	THRUST WASHER	PTFE.
13-1	THRUST WASHER (for 2-1/2" ~ 12" only)	PTFE.
14	STEM PACKING	PTFE.
14-1	STEM PACKING	PTFE.
15	GLAND	SS304
19	HANDLE	SS304(1/2"~2")、FCD45(2-1/2"~4")、SC15(5"~12")
21	HANDLE COVER	PLASTIC
22	STEM NUT (for 1/2" ~ 2" only)	SS304
24	HANDLE NUT (for 1/2" ~ 2" only)	SS304
28	LOCKING DEVICE	SS304
29	BELLEVILLE WASHER (for 1/2" ~ 2" only)	SS301
30	TAB WASHER (for 1/2" ~ 2" only)	SS304
33	STOP PIN (for 1/2" ~ 2" only)	SS304
35	BODY BOLT	ASTM A193 Gr.B8
37	BOLT NUT	ASTM A194 Gr.8
41	SNAP RING (for 2-1/2" ~ 12" only)	NICKEL PLATED CARBON STEEL
42	GLAND BOLT (for 2-1/2" ~ 12" only)	SS304
47	GLAND FLANGE (for 2-1/2" ~ 12" only)	ASTM A351 Gr.CF8
50	HANDLE ADAPTER (for 2-1/2" ~ 12" only)	ASTM A216 Gr.WCB
56	STEM BEARING (for 2-1/2" ~ 12" only)	PTFE.
90	PIN SEAT (for 10" ~ 12" only)	RTFE.
91	PIN PACKING (for 10" ~ 12" only)	RTFE.
92	SUPPORT PIN (for 10" ~ 12" only)	N08020
93	SUPPORT NUT (for 10" ~ 12" only)	SS304
94	SET NUT (for 10" ~ 12" only)	SS304
95	TUNING SCREW (for 10" ~ 12" only)	SS304

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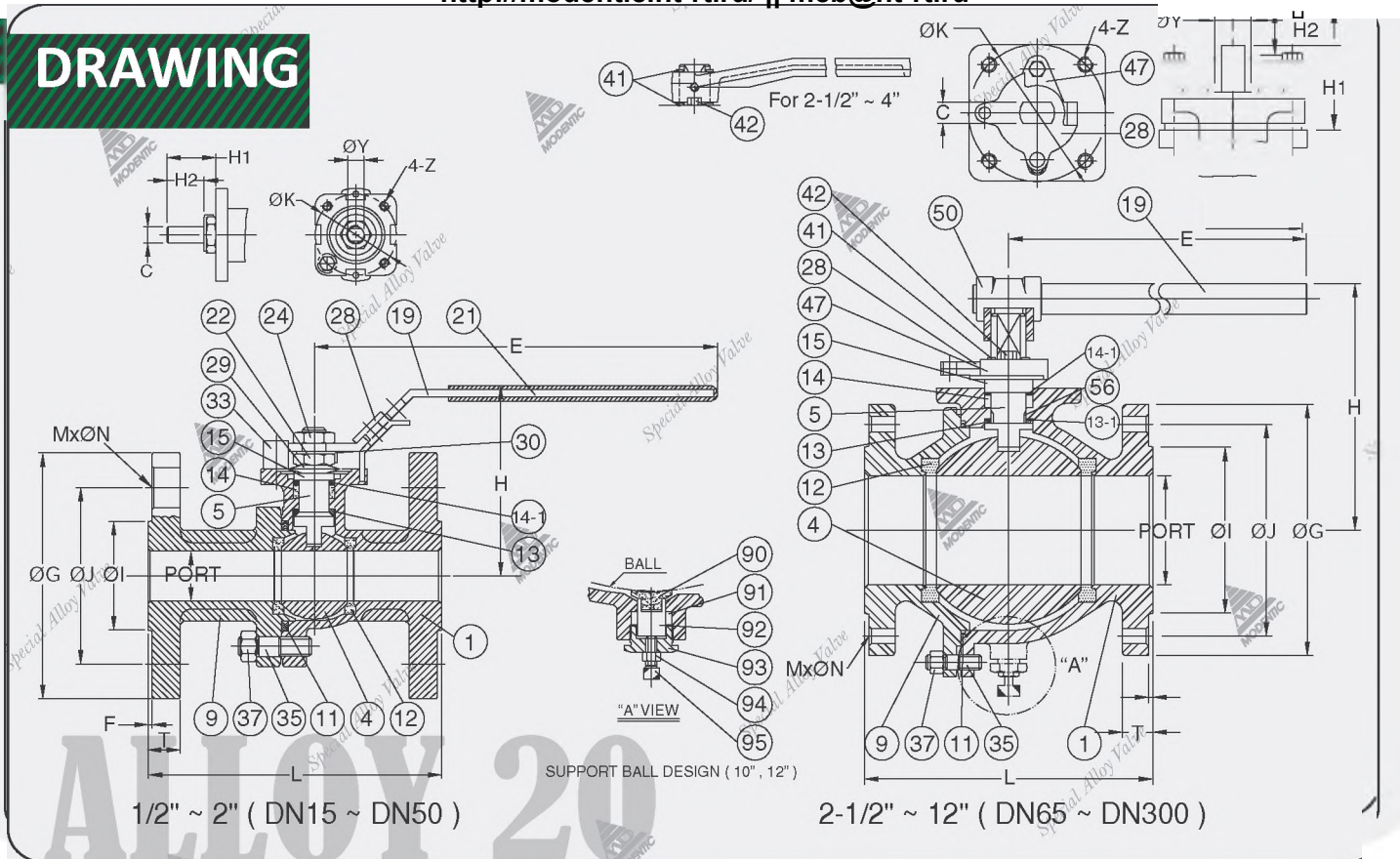
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DRAWING



DIMENSION

SIZE	PORT	L	E	H	H1	H2	C	ØY	ØG	ØJ	ØI	I	F	MxØN	ØK	Z	
DN15	1/2"	15.0	108	165	66	14	8.0	6.35	9.3	89.0	60.5	35.0	11.2	1.6	4xØ16	42/F04	M5x0.8P
DN20	3/4"	20.0	117	165	74	14	8.0	6.35	9.3	98.0	70.0	43.0	12.7	1.6	4xØ16	42/F04	M5x0.8P
DN25	1"	25.0	127	200	87	19	11.0	8.0	10.9	108.0	79.5	51.0	14.3	1.6	4xØ16	50/F05	M6x1.0P
DN32	1-1/4"	32.0	140	200	92	19	11.0	8.0	10.9	117.5	88.9	64.0	15.9	1.6	4xØ16	50/F05	M6x1.0P
DN40	1-1/2"	38.0	165	250	105	23	14.0	9.5	15.7	127.0	98.5	73.0	17.5	1.6	4xØ16	70/F07	M8x1.25P
DN50	2"	50.0	178	265	115	23	14.0	9.5	15.7	152.0	120.5	92.0	19.1	1.6	4xØ19	70/F07	M8x1.25P
DN65	2-1/2"	65.0	190	390	165	78	44.5	17.0	28.0	178.0	139.5	105.0	22.3	1.6	4xØ19	102/F10	M10x1.5P
DN80	3"	76.0	203	390	166	78	44.5	17.0	28.0	190.0	152.5	127.0	23.9	1.6	4xØ19	102/F10	M10x1.5P
DN100	4"	101.5	229	390	183	78	44.5	17.0	28.0	229.0	190.5	157.0	23.9	1.6	8xØ19	102/F10	M10x1.5P
DN150	6"	152.0	394	650	285	91	42.0	26.0	43.5	279.0	241.3	216.0	25.4	1.6	8xØ22	125/F12	M12x1.75P
DN200	8"	200.0	457	950	294	91	42.0	26.0	43.5	343.0	298.5	270.0	28.6	1.6	8xØ22	125/F12	M12x1.75P
DN250	10"	250.0	533	1100	372	98	54.0	35.0	50.0	406.0	362.0	324.0	30.2	1.6	12xØ25	140/F14	M16x2.0P
DN300	12"	300.0	610	1100	413	98	54.0	35.0	50.0	483.0	432.0	381.0	31.8	1.6	12xØ25	140/F14	M16x2.0P

UNIT : MM

SIZE	PORT	L	E	H	H1	H2	C	ØY	ØG	ØJ	ØI	I	F	E	MxØN	ØK	Z
DN15	1/2"	0.59	4.25	6.50	2.60	0.55	0.31	0.25	0.37	3.50	2.38	1.38	0.44	0.06	4xØ0.63	1.65/F04	M5x0.8P
DN20	3/4"	0.79	4.61	6.50	2.91	0.55	0.31	0.25	0.37	3.86	2.76	1.69	0.50	0.06	4xØ0.63	1.65/F04	M5x0.8P
DN25	1"	0.98	5.00	7.87	3.43	0.75	0.43	0.31	0.43	4.25	3.13	2.01	0.56	0.06	4xØ0.63	1.97/F05	M6x1.0P
DN32	1-1/4"	1.26	5.51	7.87	3.62	0.75	0.43	0.31	0.43	4.63	3.50	2.52	0.63	0.06	4xØ0.63	1.97/F05	M6x1.0P
DN40	1-1/2"	1.50	6.50	9.84	4.13	0.91	0.55	0.37	0.62	5.00	3.88	2.87	0.69	0.06	4xØ0.63	2.76/F07	M8x1.25P
DN50	2"	1.97	7.01	10.43	4.53	0.91	0.55	0.37	0.62	5.98	4.74	3.62	0.75	0.06	4xØ0.75	2.76/F07	M8x1.25P
DN65	2-1/2"	2.56	7.48	15.35	6.50	3.07	1.75	0.67	1.10	7.01	5.49	4.13	0.88	0.06	4xØ0.75	4.02/F10	M10x1.5P
DN80	3"	2.99	7.99	15.35	6.54	3.07	1.75	0.67	1.10	7.48	6.00	5.00	0.94	0.06	4xØ0.75	4.02/F10	M10x1.5P
DN100	4"	4.00	9.02	15.35	7.20	3.07	1.75	0.67	1.10	9.02	7.50	6.18	0.94	0.06	8xØ0.75	4.02/F10	M10x1.5P
DN150	6"	5.98	15.51	25.59	11.22	3.58	1.65	1.02	1.71	10.98	9.51	8.50	1.00	0.06	8xØ0.87	4.92/F12	M12x1.75P
DN200	8"	7.87	17.99	37.40	11.57	3.58	1.65	1.02	1.71	13.50	11.75	10.63	1.13	0.06	8xØ0.87	4.92/F12	M12x1.75P
DN250	10"	9.84	20.98	43.31	14.65	3.86	2.13	1.38	1.97	15.98	14.25	12.76	1.19	0.06	12xØ0.98	5.51/F14	M16x2.0P
DN300	12"	11.81	24.02	43.31	16.26	3.86	2.13	1.38	1.97	19.02	17.01	15.00	1.25	0.06	12xØ0.98	5.51/F14	M16x2.0P

UNIT : INCH