GBF-300

Flanged Globe Valve

ANSI Class 300

Flanged End, RF

API 623 Design

2” ~ 16”

API 624 FUGITIVE EMISSION

CRN CERTIFICATED

AVAILABLE MATERIAL

• Alloy 20	ASTM A351 GR.CN7M
• Hastelloy C-276	ASTM A494 GR.CW12MW
• Duplex	ASTM A890/995 GR.CD3MN
• Super Duplex	ASTM A890/995 GR.CE3MN
• Monel 400	ASTM A494 GR.M-35-1
• SS904L	Casting / ANSI SS904L

TESTING STANDARDS

API 624 is the Fugitive Emission standard for Multi-Turn Valves which guides the design with Graphite or API 622 Packing to a maximum 100 ppm FE using Methane gas.

FEATURES

- Investment Cast Body Construction
- Valve Design as per B16.34 / BS1873 / API 623
- Bolted Bonnet Design
- Rising Stem, Non Rising Handwheel
- Outside Screw & Yoke, Flexible Wedge
- Standard in Trim#8 ; Other Trim Materials are available upon request
- NACE MR0175 is available upon request
- Super Alloy materials for highly corrosive medium are available upon request

SPECIFICATIONS

• Size Range	2” ~ 16” (DN50 ~ DN400)
• End Connection	Flanged End, RF
• Working Pressure	CF8M - 720 PSI (CWP)
	WCB - 740 PSI (CWP)

STANDARDS

• Design	ASME/ANSI B16.34 / API 623
• Face to Face	ASME/ANSI B16.10 Class 300
• Flange Dimension	ASME/ANSI B16.5 Class 300 RF
• 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
• Low Emission Certificate	API 624

API 623 FLANGED GLOBE VALVES

API 624 FUGITIVE EMISSION CERTIFICATED

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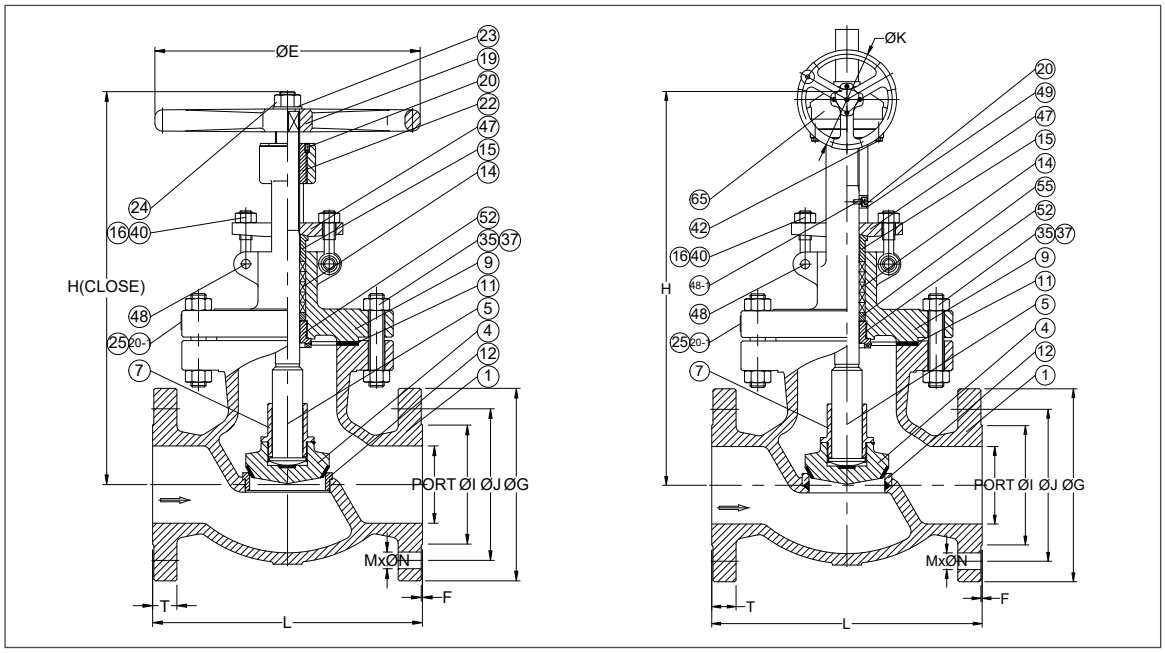

MATERIAL LIST

NO.	PART NAME	MATERIAL (more options available)	NO.	PART NAME	MATERIAL (more options available)
1	BODY	ASTM A351 Gr.CF8M, ASTM A351 Gr.CN7M / ASTM A995 Gr.CD3MN, ASTM A995 Gr.CE3MN / ASTM A494 Gr.CW12MW / ASTM A216 Gr.WCB	20 20-1	RIVET	SS304
4	DISC (2"~6")	ASTM A182 Gr.F316, ASTM A182 Gr.F51, ASTM A182 Gr.F53 / ASTM B473 Gr.N08020 / ASTM B564 Gr.N10276 / ASTM A105N+13Cr	22	STEM NUT	ASTM A439 Gr.D-2
4	DISC (8"~16")	ASTM A182 Gr.F316 / ASTM A351 Gr.CN7M / ASTM A995 Gr.CD3MN, ASTM A995 Gr.CE3MN / ASTM A494 Gr.CW12MW / ASTM A105N+13Cr	24	HANDWHEEL NUT	STAINLESS STEEL / ASTM A29 TYPE1025
5	STEM	ASTM A182 Gr.F316, ASTM A182 Gr.F51, ASTM A182 Gr.F53 / ASTM B473 Gr.N08020 / ASTM B564 Gr.N10276 / ASTM A182 Gr.F6a	25	NAME PLATE	SS304
7	DISC NUT	ASTM A276 TYPE 316 / ASTM A182 Gr.F51, ASTM A182 Gr.F53 / ASTM B473 Gr.N08020 / ASTM B564 Gr.N10276 / ASTM A276 TYPE 410	35	BOLT	ASTM A193 Gr.B8M-CL2, ASTM A193 Gr.B7
9	BONNET	ASTM A351 Gr.CF8M, ASTM A351 Gr.CN7M / ASTM A995 Gr.CD3MN, ASTM A995 Gr.CE3MN / ASTM A494 Gr.CW12MW / ASTM A216 Gr.WCB	37	STUD BOLT NUT	ASTM A194 Gr.8M, ASTM A194 Gr.2H
11	GASKET	SS316 + GRAPHITE / SS304 + GRAPHITE	40	EYE BOLT	ASTM A193 Gr.B8M-CL2, ASTM A193 Gr.B7
12	SEAT RING	ASTM A182 Gr.F316+STL#6, ASTM A182 Gr.F51, ASTM A182 Gr.F53 / ASTM B473 Gr.N08020 / ASTM B564 Gr.N10276 / ASTM A105+STL#6	47	GLAND FLANGE	ASTM A351 Gr.CF8M, ASTM A351 Gr.CN7M / ASTM A995 Gr.CD3MN, ASTM A995 Gr.CE3MN / ASTM A494 Gr.CW12MW / ASTM A216 Gr.WCB
14	PACKING	GRAPHITE	48	PIN	STAINLESS STEEL / ASTM A29 TYPE1025
15	GLAND	ASTM A276 TYPE 316 / ASTM A182 Gr.F51, ASTM A182 Gr.F53 / ASTM B473 Gr.N08020 / ASTM B564 Gr.N10276 / ASTM A276 TYPE 410	49	GUIDE PLATE	STAINLESS STEEL / ASTM A29 TYPE1025
16	EYE NUT / GLAND NUT	ASTM A194 Gr.8M, ASTM A194 Gr.2H	52	BACK SEAT	ASTM A276 TYPE 316 / ASTM A182 Gr.F51, ASTM A182 Gr.F53 / ASTM B473 Gr.N08020 / ASTM B564 Gr.N10276 / ASTM A276 TYPE 410
18	YOKE	ASTM A351 Gr.CN7M / ASTM A995 Gr.CD3MN, ASTM A995 Gr.CE3MN / ASTM A494 Gr.CW12MW	55	SPACER RING	ASTM A276 TYPE 316 / ASTM A276 TYPE 410
19	HANDWHEEL	DUCTILE IRON	65	GEAR BOX	CARBON STEEL

DIMENSION

unit : mm

SIZE		PORT	L	ØE	ØK	H(CLOSE)	ØG	ØJ	ØI	T	F	M	ØN
DN50	2"	51.0	267.0	200.0	-	320.0	165.0	127.0	92.1	22.7	2.0	8	19.0
DN65	2-1/2"	64.0	292.0	250.0	-	380.0	190.0	149.2	104.8	25.9	2.0	8	22.0
DN80	3"	76.0	318.0	250.0	-	365.0	210.0	168.3	127.0	29.0	2.0	8	22.0
DN100	4"	102.0	356.0	250.0	-	455.0	255.0	200.0	157.2	32.2	2.0	8	22.0
DN125	5"	127.0	400.0	350.0	-	520.0	280.0	235.0	185.7	35.4	2.0	8	22.0
DN150	6"	152.0	444.0	400.0	-	555.0	320.0	269.9	215.9	37.0	2.0	12	22.0
DN200	8"	203.0	559.0	-	600.0	695.0	380.0	330.2	269.9	41.7	2.0	12	26.0
DN250	10"	254.0	622.0	-	600.0	785.0	445.0	387.4	323.8	48.1	2.0	16	29.0
DN300	12"	305.0	711.0	-	700.0	901.0	520.0	450.8	381.0	51.3	2.0	16	32.0
DN350	14"	337.0	838.0	-	700.0	928.0	585.0	514.4	412.8	54.4	2.0	20	32.0
DN400	16"	387.0	864.0	-	700.0	1043.0	650.0	571.5	469.9	57.6	2.0	20	35.0

DIMENSION

unit : inch

SIZE		PORT	L	ØE	ØK	H(CLOSE)	ØG	ØJ	ØI	T	F	M	ØN
DN50	2"	2.01	10.51	7.87	-	12.60	6.50	5.00	3.63	0.89	0.08	8	0.75
DN65	2-1/2"	2.52	11.50	9.84	-	14.96	7.48	5.87	4.13	1.02	0.08	8	0.87
DN80	3"	2.99	12.52	9.84	-	14.37	8.27	6.63	5.00	1.14	0.08	8	0.87
DN100	4"	4.02	14.02	9.84	-	17.91	10.04	7.87	6.19	1.27	0.08	8	0.87
DN125	5"	5.00	15.75	13.78	-	20.47	11.02	9.25	7.31	1.39	0.08	8	0.87
DN150	6"	5.98	17.48	15.75	-	21.85	12.60	10.63	8.50	1.46	0.08	12	0.87
DN200	8"	7.99	22.01	-	23.62	27.36	14.96	13.00	10.63	1.64	0.08	12	1.02
DN250	10"	10.00	24.49	-	23.62	30.91	17.52	15.25	12.75	1.89	0.08	16	1.14
DN300	12"	12.01	27.99	-	27.56	35.47	20.47	17.75	15.00	2.02	0.08	16	1.26
DN350	14"	13.27	32.99	-	27.56	36.54	23.03	20.25	16.25	2.14	0.08	20	1.26
DN400	16"	15.24	34.02	-	27.56	41.06	25.59	22.50	18.50	2.27	0.08	20	1.38

GLOBE VALVE