TECFLOW

NRS Gate Valve Flanged End 300PSI – GGG50

MODEL: Z45-300

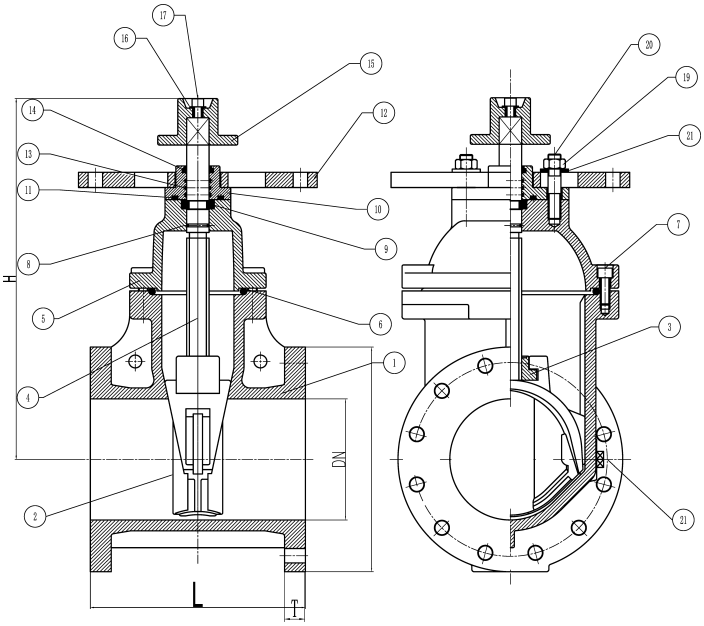
NRS Gate Valve – Flanged End – Comply to GGG50 - SEA WATER

TECHNICAL FEATURES

- **Nominal Operating Pressure**: 300 PSI / 21 BAR Non-Shock Cold Working Pressure.
- **Maximum Operating Pressure**: 600 PSI / 42 BAR.
- **Design Standard**: ANSI / AWWA C515 / BS5163 & C509 Standard Latest Version.
- **Face to Face Standard:** ASME B16.10
- **Sizes:** 2½", 3", 4", 5", 6", 8", 10", 12"
- **Flange Standard:** ASME / ANSI B16.1 Class 125 or ASME / ANSI B16.42 Class 150 or BS EN1092-2 PN16 or GB / T9113.1
- **Approvals:** UL, CUL, FM, NSF / ANSI 61 & 372, CCC.
- **Standards Conforms to:** UL262, ULC / ORD C262-92, FM Class 1120 / 1130.
- **Maximum Working Temperature:** -10°C to 120°C
- NPT Plug on body with Two Operating Nuts**.**
- Certified lead-free by truesdail laboratories to NSF-61 & ANSI-372
- Indicator Post Pattern.
- Compliance with the Standard for Gate Valves for Fire Protection Service, UL262, and the Canadian Requirements, ULC/ORD-C262**.**
- **Coating —**Applicable for sea water application (Heavy Duty Anticorrosive Epoxy Powder Coatings).
- Test API598 for Water & Steam Application.
- Drilled, tapped and plugged with **½"** for valve sizes 2½"– 4", **¾"** on sizes 6"–8" & **1"** on sizes 10"–12".
- Comply to ES 971/2005, ISO 1083 & DIN 1693.
- Multiple O-Ring sealing structure to protect the stem under pressure during operation and maintenance, it causes no damage to the operator.
- Self-Sealing design between the bonnet and body make the sealing tighter when pressure is higher within the allowable range.
- Long Service life with resilient seat cycling test at least 5000 times.
- The bottom of gate valve adopts straight through design, no foreign matter store to make sure smooth flow and reliable sealing.
- Conforms to MS SSP 128 / BS EN 1563 Spheroidal Graphite Cast Iron or Nodular Graphite Iron.
- Marine Coatings Quality Test and Supervision Center of the Chemical Industry.

MATERIAL LIST

NO.	NAME	MATERIAL	STANDARD
1	Valve Body	Ductile Iron	ASTM A536 Grade 65-45-12
2	Resilient Wedge Disc	Ductile Iron + EPDM	ASTM A536 Grade 65-45-12 / ASTM D2000
3	Wedge Lifting Nut	Bronze C95400	ASTM B148
4	Stem	Bronze C95400	ASTM B148
5	Bonnet	Ductile Iron	ASTM A536 Grade 65-45-12
6	Bonnet Gasket	EPDM	ASTM D2000
7	Bonnet Socket Screw	Carbon Steel 1045	Highly Corrosion Resistance ASTM A29
8	Stem Primary O-Ring	EPDM	ASTM D2000
9	Thrust Collar Retaining Ring	Bronze C95400	ASTM B148
10	Gland Flange	Ductile Iron	ASTM A536 Grade 65-45-12
11	Gland Seal O-Ring	EPDM	ASTM D2000
12	Indicator Post Flange	Ductile Iron	ASTM A536 Grade 65-45-12
13	Stem Secondary O-Ring	EPDM	ASTM D2000
14	Stem Sealing Ring Wiper	EPDM	ASTM D2000
15	Square Operating Nut	Ductile Iron	ASTM A536 Grade 65-45-12
16	Operating Nut Washer	Stainless Steel SS316	ASTM A276
17	Operating Nut Hexagon Screw	Stainless Steel SS316	ASTM A276
18	Gland Flange Screw	Carbon Steel 1045	Highly Corrosion Resistance ASTM A29
19	Indicator Flange Screw	Stainless Steel SS316	ASTM A276
20	Indicator Flange Nuts	Stainless Steel SS316	ASTM A276
21	Indicator Flange Studs	Stainless Steel SS316	ASTM A276
22	Plug	Bronze C95400	ASTM B148
23	UL / FM Label (Not Shown)	Aluminum	
24	Drive Screw Label (Not Shown)	Bronze C95400	ASTM B148



DIMENSIONS

DIMENSIONS—WEIGHTS—QUANTITIES

Size		L		H		D		Ø		T		Holes	Number of Turns	Weight
Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	(N)	(N)	(Kg)
2½	65	7.48	190	11.49	292	7.00	178	1.41	36	0.68	17.50	4	11.00	23
3	80	7.99	203	12.67	322	7.51	191	1.41	36	0.75	19.10	4	13.00	25
4	100	9.01	229	13.46	342	9.01	229	1.41	36	0.94	23.90	8	17.00	34
6	150	10.51	267	17.63	448	10.98	279	1.53	39	1.00	25.40	8	25.50	71
8	200	11.49	292	21.02	534	13.50	343	1.53	39	1.12	28.60	8	34.00	112
10	250	12.99	330	25.00	635	15.98	406	1.81	46	1.18	30.20	12	42.00	150
12	300	14.05	356	28.34	720	19.01	483	1.81	46	1.25	31.80	12	51.00	202

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