VALVESEAL
valves & sealing solutions

Resilient Wedge OS&Y Gate Valve Flanged End 300PSI – GGG50

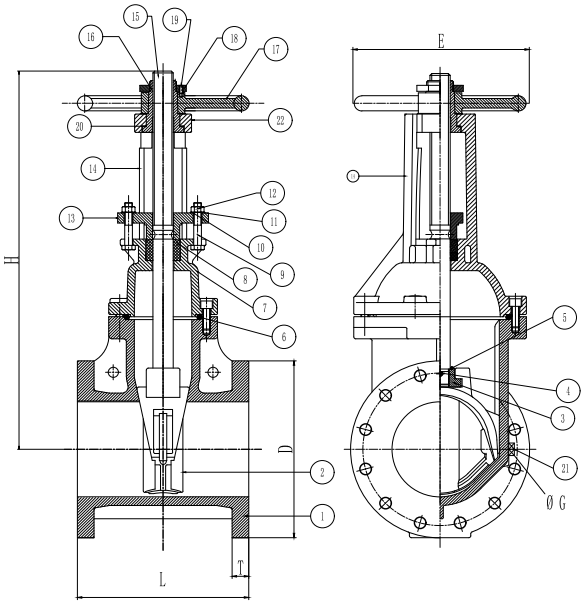
MODEL: Z41-300

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
- Pre-Grooved Stem for Supervisory Switch.
- **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.
- Epoxy Coated by **AKZO NOBEL** Resicoat® R4-ES Code: HGF14R Electrostatic Spray.
- Compliance with the Standard for Gate Valves for Fire Protection Service, UL262, and the Canadian Requirements, ULC/ORD-C262.
- Comply to ES 971/2005, ISO 1083 & DIN 1693.
- **Coating —** Electrostatically applied fusion-bonded epoxy 8-20 mil. inside and outside meets or exceeds AWWA C550.
- Test API598 for Water, Steam & Firefighting Application.
- Drilled, tapped and plugged with **½"** for valve sizes 2½"– 4", **¾"** on sizes 6"–8" & **1"** on sizes 10"–12".
- 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.
- Conforms to BS EN 1008 – 1 : 2005 Stainless Steel Grades.

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	Lifting Nut	Stainless Steel 304	ASTM A351
4	Dowel Pin	Stainless Steel 304	ASTM A276
5	Stem Back Seat Sealing O-Ring	EPDM	ASTM D2000
6	Bonnet Gasket Sealing O-Ring	EPDM	ASTM D2000
7	Bonnet Cap	Ductile Iron	ASTM A536 Grade 65-45-12
8	Stem Packing	Graphite	
9	Gland Threaded Rod Bolt	Carbon Steel 1045	Highly Corrosion Resistance ASTM A29
10	Gland Flat Washer	Carbon Steel 1045	Highly Corrosion Resistance ASTM A29
11	Gland Bushing	Ductile Iron	ASTM A536 Grade 65-45-12
12	Gland Nut	Carbon Steel 1045	Highly Corrosion Resistance ASTM A29
13	Gland	Ductile Iron	ASTM A536 Grade 65-45-12
14	Yoke	Bronze C95400	ASTM B148
15	Stem	Stainless Steel 304	ASTM A276
16	Stem Nut	Bronze C95400	ASTM B148
17	Hand-Wheel	Ductile Iron	ASTM A536 Grade 65-45-12
18	Hand-Wheel Lock Nut	Bronze C95400	ASTM B148
19	Locating Screw	Stainless Steel 304	ASTM A276
20	Yoke Gasket Thrust Collar	Bronze C95400	ASTM B148
21	NPT Pipe Plug	Bronze C95400	ASTM B148
22	Yoke Bushing Retainer	Ductile Iron	ASTM A536 Grade 65-45-12
23	UL / FM Label Name Plate (Not Shown)	Aluminum	



DIMENSIONS

DIMENSIONS—WEIGHTS—QUANTITIES

Size		L		H		D		Ø G		T		E		Holes	Number of Turns	Weight
Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	(N)	(N)	(Kg)
2½	65	7.48	190	14.05	357	7.00	178	1.41	36	0.68	17.50	8.66	220	4	10.00	24
3	80	7.99	203	16.18	411	7.51	191	1.41	36	0.75	19.10	9.84	250	4	10.00	28
4	100	9.01	229	17.44	443	9.01	229	1.41	36	0.94	23.90	11.02	280	8	13.00	39
6	150	10.51	267	23.42	595	10.98	279	1.53	39	1.00	25.40	13.77	350	8	19.00	69
8	200	11.49	292	29.09	739	13.50	343	1.53	39	1.12	28.60	14.96	380	8	25.50	115
10	250	12.99	330	34.68	881	15.98	406	1.81	46	1.18	30.20	17.71	450	12	32.00	150
12	300	14.05	356	40.19	1021	19.01	483	1.81	46	1.25	31.80	17.71	450	12	38.00	215

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