

FIG.111



## GATE VALVE zGAT



Body material	Nominal pressure	Nominal diameter	Max. temperature
D Nodular cast iron	C 16 bar	DN 40-600*	70°C
	B 10 bar		



**\*DN650-DN800 on request**

correspond to the pressure equipment directive 2014/68/UE marking CE for DN≥32

### FEATURES

- high tightness (leakproofness class - A acc. EN -12266 - 1)
- face of face dimensions: series 14 acc EN 558-1, F4 acc. to DIN 3202
- flange end connections: EN-1092-2
- fusion bonded epoxy coating RAL 5002
- coating thickness: 300µm
- prepared for actuator mounting

### APPLICATION

industries



INDUSTRY

media



INDUSTRIAL WATER



NEUTRAL FLUIDS



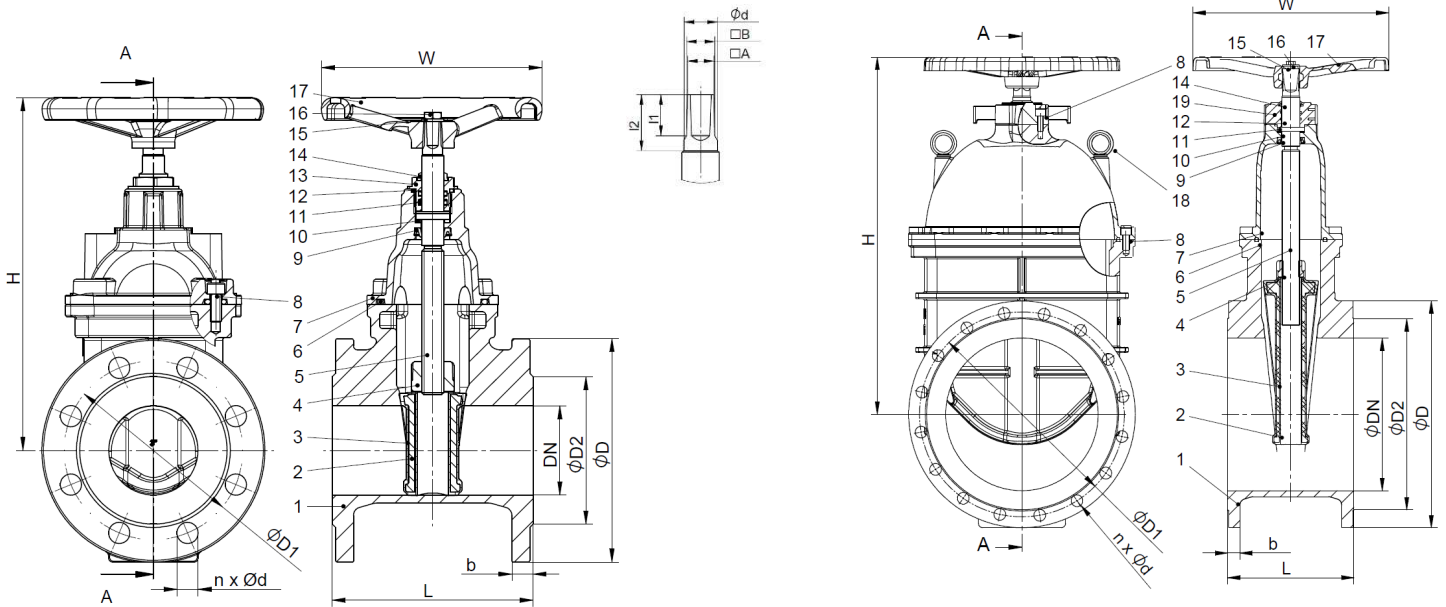
DRINKING WATER

**FIG.111**

**MATERIALS, DIMENSIONS**

DN 40 - 300

DN 350 - 600



Body material		D	
Type		57	36
1	Body	EN-GJS-500-7 5.3200 (ex.JS1050)	
2	Wedge	EN-GJS-500-7 5.3200 (ex.JS1050)	
3	Cover of wedge	EPDM	
4	Threaded bush	CuZn36Pb2As	
5	Stem	X20Cr13	
6	Cover seal	EPDM	
7	Cover	EN-GJS-500-7 5.3200 (ex.JS1050)8.8	
8	Bolt	C15, C15R, C15E	
9	seal ring	EPDM	
10	Washer	Nylon	
11	O-ring	EPDM	
12	O-ring	EPDM	
13	Thrust bearing	CuZn36Pb2As	
14	Seal	NBR/EPDM	
15	Washer	C15, C15R, C15E	
16	Nut	C15, C15R, C15E	
17	Hand wheel	EN-GJS-500-7 5.3200 (ex.JS1050)8.8	
18	nut	-	C15, C15R, C15E
19	Cover	-	EN-GJS-500-7 5.3200 (ex.JS1050)
<b>Max. temperature</b>		70°C	

**FIG.111**

DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	
L (mm)	140	150	170	180	190	200	210	230	250	270	290	310	330	350	390	
H (mm)	235	240	250	312	335	385	438	543	645	728	812	923	974	1073	1254	
D (mm)	PN10	-	-	-	-	-	-	-	340	400	455	505	565	615	670	780
	PN16	150	165	185	200	220	250	285	340	405	460	520	580	640	715	840
D1 (mm)	PN10	-	-	-	-	-	-	-	295	350	400	460	515	565	620	725
	PN16	110	125	145	160	180	210	240	295	355	410	470	525	585	650	770
D2 (mm)	84	99	118	132	156	184	211	266	319	370	429	480	548	609	720	
b (mm)	PN10	-	-	-	-	-	-	-	20	22	24,5	24,5	24,5	25,5	26,5	30,0
	PN16	19	19	19	19	19	19	19	20	22	24,5	26,5	28,0	30,0	31,5	36,0
n (mm)	PN10	-	-	-	-	-	-	-	8	12	12	16	16	20	20	20
	PN16	4	4	4	8	8	8	8	12	12	12	16	16	20	20	20
d (mm)	PN10	-	-	-	-	-	-	-	23	23	23	23	28	28	28	31
	PN16	19	19	19	19	19	19	23	23	28	28	28	31	31	34	37
W (mm)	160	160	160	200	250	250	320	320	320	360	600	600	600	730	730	
C (mm)	5,0	5,0	5,0	5,0	6,0	6,0	7,0	7,5	9,0	10,0	14	16	17	18	18	
□ A (mm)	12,8	12,8	12,8	14,5	17,0	17,2	18,7	20,0	20,0	20,0	30,0	30,0	35,0	35,0	35,0	
□ B (mm)	13,8	13,8	13,8	15,6	19,5	19,7	21,7	22,0	22,0	22,0	-	-	-	-	-	
φd (mm)	17	17	17	18	24	24	24	26	26	28	38	38	42	45	45	
I1 (mm)	20	20	20	22	25	25	30	30	30	30	45	45	45	45	45	
I2 (mm)	28	28	28	27	32	32	40	40	40	40	66	60	130	60	60	
Weight (kg)																
111	PN10	-	-	-	-	-	-	-	58,0	85,0	131,0	182,6	262,4	320,0	400,0	630,0
	PN16	8,0	9,0	11,8	14,2	18,6	26,6	36,2	58,4	85,4	132,0	182,6	262,4	320,0	400,0	630,0

**THE DIMENSIONS AND THE LIST OF THE MAIN ELEMENTS FOR MOUNTING THE ACTUATOR**

DN	40	50	65	80	100	125	150	200	250	300	List of parts	
Bracket. Drilling acc. ISO 5210	F10	F10	F10	F10	F10	F10	F10	F10	F14	F14	1	
Joint acc. ISO 5210 / B1 φd mm	42	42	42	42	42	42	42	42	60	60	2	
Parallel key	12x8x32	12x8x32	12x8x32	12x8x32	12x8x32	12x8x32	12x8x32	12x8x32	12x8x32	18x11x50	18x11x50	3
Bolt EN ISO 4762	2szt. M12x16 8.8	2szt. M12x16 8.8	2szt. M12x16 8.8	2szt. M12x16 8.8	2szt. M12x16 8.8	4szt. M10x16 8.8	4szt. M10x16 8.8	4szt. M10x16 8.8	4szt. M16x18 8.8	4szt. M16x18 8.8	4	
Bolt EN ISO 4017	M8x35	M8x35	M8x35	M8x35	M10x35	M10x35	M10x35	M10x35	M12x50	M12x50	5	
Pillow ISO 7094	M8	M8	M8	M8	M8	M10	M10	M10	M12	M12	6	
Operating torque Nm	12	25	30	50	55	60	80	110	150	200		
Number of turns to complete closure	13	19	19	26	25	32	33	44	55	53		

## FIG.111

### TYPE FOR ACTUATOR DN350-DN800

DN	Top flange	ØE	ØE1	ØE2	h	n-Ød2	Ød1	L3	L1	T	L2
350	F14	175	140	100	4,5	4-18	30	65	5	8	60
400	F14	175	140	100	4,5	4-18	30	65	5	8	60
450	F14	175	140	100	4,5	4-18	30	65	5	8	60
500	F14	175	140	100	4,5	4-18	30	65	5	8	60
600	F14	175	140	100	4,5	4-18	30	65	5	8	60
700	F16	210	165	130	5,5	4-22	40	80	5	12	63
800	F25	300	254	200	5,5	8-18	50	100	10	14	70

### Closing moment

DN	350	400	450	500	600	700	800
Nm	370	430	470	500	600	800	1200

### The number of turns to fully close

DN	350	400	450	500	600	700	800
Turn	30	35	40	45	50	50	57

### Type with AUMA actuator

DN	PN	TYP AUMA	Torque Nm	Connection wg EN ISO 5210	L	H	Weight kg
40-50	16	SA 07.2	10-30	F10	514	288	19
65-100		SA 07.6	20-60	F10	514	288	21
125-200		SA 10.2	40-120	F10	536	290	23,5
250-300		SA 14.2	100-250	F14	725	316	48
350-600		SA 14.6	260-500	F14	728	316	53
700		SA 16.2	450-1000	F16	795	430	83
800		SA 25.1	1100-2000	F25	922	581	152

### STANDARD TYPE

- Power supply - 400V
- Limit switches
- Overload protection
- Electromechanical Control Unit
- Thermal protection
- Thermostats
- Handwheel for manual operation

# FIG.111

## TYPE

Figure	Body material	Nominal diameter	Nominal pressure	Type
111	D Nodular cast iron EN-GJS-500-7	40-300 mm	C 16 bar	57 inside threaded stem, smooth port EPDM, cast iron/EPDM Wedge, epoxy paint, with hand wheel, universal cover
		40-800 mm	C 16 bar	36 inside threaded stem, smooth port EPDM, cast iron/EPDM Wedge, epoxy paint, with hand wheel, cover prepared for mounting the actuator
		40-300 mm	B 10 bar	57 inside threaded stem, smooth port EPDM, cast iron/EPDM Wedge, epoxy paint, with hand wheel, universal cover
		40-800 mm	B 10 bar	36 inside threaded stem, smooth port EPDM, cast iron/EPDM Wedge, epoxy paint, with hand wheel, cover prepared for mounting the actuator

## ORDERING

Figure	Body material	Nominal diameter	Nominal pressure	Type
111	D Nodular cast iron EN-GJS-500-7	40-300 mm	C 16 bar	57 inside threaded stem, smooth port EPDM, cast iron/EPDM Wedge, epoxy paint, with hand wheel, universal cover

### Order example acc. index

111 D 050 C 57

Gate valves, ends flange, form straight

Nodular cast iron EN-GJS-500-7

Nominal diameter (mm)

Nominal pressure PN 16

Inside threaded stem, smooth port EPDM, cast iron/EPDM Wedge, epoxy paint, with hand wheel universal cover

