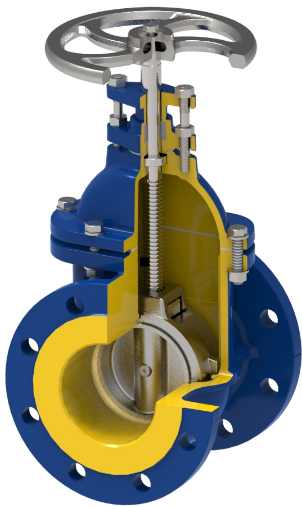


FIG.110



GATE VALVE zGAT



Body material	Nominal pressure	Nominal diameter	Max. temperature
D Nodular cast iron	C 16 bar	DN 40-300	150°C
F Cast steel	C 16 bar	DN 50-300	400°C
	D 25 bar		
	E 40 bar		

*for material F, it is allowed for a short time up to 450°C



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

FEATURES

- high tightness (leak proofness class - A acc. to EN - 12266 - 1
- compact settlement
- tests acc. to EN - 12266 - 1
- face to face dimensions: series 14 acc EN 558, F4 acc. to DIN 3202 (material D, PN 16)
- face to face dimensions: series 15 acc EN 558, F5 acc. to DIN 3202 (material F PN 16 and PN 25)
- face to face dimensions: series 26 acc EN 558, F7 acc. to DIN 3202 (material F PN 40)
- flanges drilled according to EN-1092-2 for body material D
- flanges drilled according to EN-1092-1 for body material F
- epoxy coating RAL 5002 for material D

APPLICATION

*not all of the applications are suitable for all of the executions
On the website www.zetkama.com.pl is a Chemical Resistance List, which specifies the parameters of work for a given medium

industries



INDUSTRY



SHIPBUILDING
INDUSTRY



HEATING

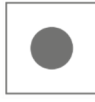


REFRIGERATION
AND AIR
CONDITIONING

media



INDUSTRIAL
WATER



NEUTRAL
FLUIDS



DRINKING
WATER



GLYCOL



STEAM



DIATHERMIC
OIL



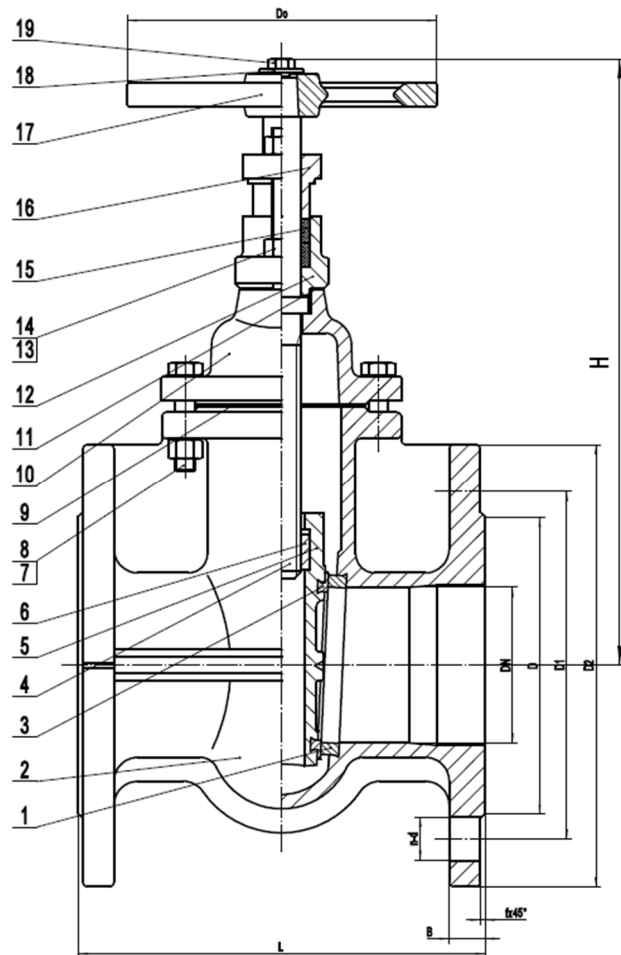
COMPRESSED
AIR

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MATERIALS, DIMENSIONS

Fig. 110 D



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FIG.110

	Body material	D	
	Type	02	01
1	Body seat ring	CuZN39Pb2	X20Cr13 (1.4021)
2	Body	EN-GJS-500-7 (5.3200)	
3	Wedge seat ring	CuZN39Pb2	X20Cr13 (1.4021)
4	Stem	X20Cr13 (1.4021)	
5	Wedge	EN-GJS-500-7 (5.3200)	
6	Stem nut	CuZN39Pb2	
7	Bolt	5.6	
8	Nut	5,6	
9	Gasket	Graphite	
10	Bonnet	GGG50 (EN-GJS-500-7 -5.3200)	
11	Stuffing box gasket	EPDM+ graphite	
12	Stuffing box	EN-GJS-500-7 (5.3200)	
13	Bolt	5,6	
14	Nut	5,6	
15	Packing	Graphite	
16	Gland follower	EN-GJS-500-7 (5.3200)	
17	Handwheel	EN-GJL 250 (5.1301)	
18	Washer	5,6	
19	Bolt	5,6	
Max. temperatur		120°C	150°C

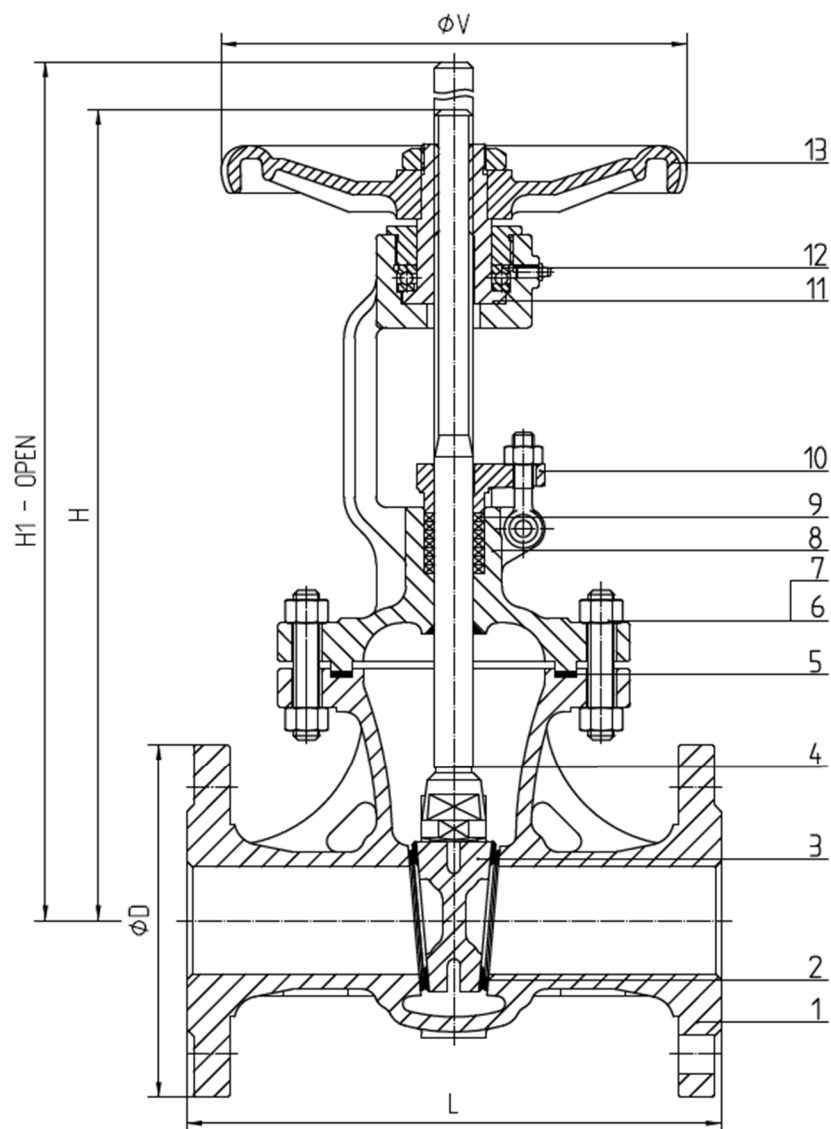
	40	50	65	80	100	125	150	200	250	300
L	140	150	170	180	190	200	210	230	250	270
Do	160	160	160	160	200	200	250	250	320	320
H	245	255	277	304	332	388	455	538	629	730
Kg	9,0	11,6	13,6	18,5	25,0	34,5	47,5	73,4	101,0	147,2

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MATERIALS, DIMENSIONS

Fig. 110 F



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FIG.110

	Body material	F	
	Type	01	03
1	Kadłub	GP240GH (1.0619)	
2	Body seat ring	Stellite 6	
3	Wedge + wedge seat ring	GP240GH (1.0619) + X20Cr13 (1.4021)	
4	Stem	X20Cr13 (1.4021)	
5	Gasket	Steel + Graphite	
6	Nut	ASTM A194 2H	
7	Bolt	ASTM A193 B7	
8	Bonnet	GP240GH (1.0619)	
9	Gasket	Graphite	
10	Gland follower	GP240GH (1.0619)	
11	Stem nut	Brass	
12	Bearing	Steel	---
13	Handwheel	EN-GJS 400-18 (5.3105)	---
Max. temperatur		400°C	

DN		50	65	80	100	125	150	200	250	300
PN16 – series 15	L	250	270	280	300	325	350	400	450	500
	H	400	420	500	520	610	620	780	1050	1200
	H ₁ -open	470	495	580	620	720	760	980	1300	1540
	V	200	200	225	250	280	300	400	500	500
PN25 – series 15	L	250	270	280	300	325	350	400	450	500
	H	400	430	500	520	610	700	900	1050	1200
	H ₁ -open	470	495	580	620	720	840	1100	1300	1540
	V	200	200	225	250	280	300	400	500	500
PN40 – series 26	L	250	290	310	350	400	450	550	650	750
	H	400	430	500	520	610	700	900	1050	1200
	H ₁ -open	470	495	580	620	720	840	1100	1300	1540
	V	200	200	225	250	300	400	500	500	600

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FIG.110

PRESSURE-TEMPERATURE RATINGS

Material	PN		Temperatur [° C]									
Acc EN 1092-2			-60°C ÷ <-29°C	-29°C÷120°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C	500°C
EN-GJS-500-7	16	bar	-----	16	15,2	---	---	---	---	---	---	---
Wg EN 1092-1			-10°÷<50°C	50°C÷100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C	500°C
GP240GH	16	bar	16	14,8	14	13,3	12,1	11	10,2	9,5	5,2	---
	25	bar	25	23,2	22	20,8	19	17,2	16	14,8	8,2	---
	40	bar	40	37,1	35,2	33,3	30,4	27,6	25,7	23,8	13,1	---

FLANGE DIMENSIONS ACC. PN-EN 1092-1 (F)

DN		40	50	65	80	100	125	150	200	250	300
PN16	D (mm)	150	165	185	200	220	250	285	340	405	460
	K (mm)	110	125	145	160	180	210	240	295	355	410
	n-d (mm)	4x18	4x18	8x18	8x18	8x18	8x18	8x22	12x22	12x26	12x26
PN25	D (mm)	150	165	185	200	235	270	300	360	425	485
	K (mm)	110	125	145	160	190	220	250	310	370	430
	n-d (mm)	4x18	4x18	8x18	8x18	8x22	8x26	8x26	12x26	12x30	16x30
PN40	D (mm)	150	165	185	200	235	270	300	375	450	515
	K (mm)	110	125	145	160	190	220	250	320	385	450
	n-d (mm)	4x18	4x18	8x18	8x18	8x22	8x26	8x26	12x30	12x33	16x33

FLANGE DIMENSIONS ACC. PN-EN 1092-2 (D)

DN		40	50	65	80	100	125	150	200	250	300
PN16	D (mm)	150	165	185	200	220	250	285	340	405	460
	K (mm)	110	125	145	160	180	210	240	295	355	410
	n-d (mm)	4x19	4x19	4x19	8x19	8x19	8x19	8x23	12x23	12x28	12x28

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FIG.110

TYPE

Figure	Body material	Nominal diameter	Nominal pressure	Type
110	D Nodular cast iron EN-GJS-500-7	40-300 mm	C 16 bar	02 inside threaded stem, wedge with brass ring , body seat ring - brass, with hand wheel,
		40-300 mm	C 16 bar	01 inside threaded stem, wedge with stainless steel ring , body seat ring - stainless steel ring, with hand wheel,,
	F cast steel GP240GH	50-300 mm	C 16 bar	01 outside threaded stem, wedge with stainless steel ring , body seat ring - stainless steel ring, with hand wheel,,
		50-300 mm	C 16 bar	03 outside threaded stem, wedge with stainless steel ring , body seat ring - stainless steel ring, under electric actuator
		50-300 mm	C 16 bar	04 outside threaded stem, wedge with stainless steel ring , body seat ring - stainless steel ring, gearbox
		50-300 mm	D 25 bar	01 outside threaded stem, wedge with stainless steel ring , body seat ring - stainless steel ring, with hand wheel,,
		50-300 mm	D 25 bar	03 outside threaded stem, wedge with stainless steel ring , body seat ring - stainless steel ring, under electric actuator
		50-300 mm	D 25 bar	04 outside threaded stem, wedge with stainless steel ring , body seat ring - stainless steel ring, gearbox
		50-300 mm	E 40 bar	01 outside threaded stem, wedge with stainless steel ring , body seat ring - stainless steel ring, with hand wheel,,
		50-300 mm	E 40 bar	03 outside threaded stem, wedge with stainless steel ring , body seat ring - stainless steel ring, under electric actuator
		50-300 mm	E 40 bar	04 outside threaded stem, wedge with stainless steel ring , body seat ring - stainless steel ring, gearbox

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FIG.110

ORDERING

Figure	Body material	Nominal diameter	Nominal pressure	Type
110	D Nodular cast iron EN-GJS-500-7	40-300 mm	C 16 bar	02 inside threaded stem, wedge with brass ring , body seat ring - brass, with hand wheel,

Order example acc. index

110 D 050 C 02

Gate valves, ends flange, form straight
Nodular cast iron EN-GJS-500-7
Nominal diameter (mm)
Nominal pressure PN 16
Inside threaded stem, wedge with brass ring , body seat ring - brass, with hand wheel,

110 D 050 C 02