

Wedge gate valve (flat form) TYPE AS03



Description:

Flat gate valves are used for the controlled opening and closing of a pipe system.

Product features:

- Suitable for neutral and non-neutral **gaseous & liquid media**
- Largely maintenance-free
- Preferred installation position: vertical with spindle pointing upwards

connection:

DN50, DN65, DN80, DN100, DN125, DN150, DN200, DN250, DN300, DN350, DN400, DN500

Temperature:

-10°C to 400°C
- depending on version

Pressure:

up to 16.0 bar
- depending on version

Type AS03

Type:

Wedge gate valve (flat form)

Type:

AS0300 Cast steel

Body material:

Cast steel 1.0619N

Spindle material:

Stainless steel 1.4021 / AISI 420

Spindle:

external & rising

Shackle attachment

Cast steel 1.0619N

Nominal pressure

PN10/PN16

Material wedge:

Cast steel 1.0619N

Material handwheel:

Carbon steel 1.0036

Handwheel:

non-rising

Gasket:

Graphite

Installation:

Preferably vertically into horizontal

Up to DN 200 inclined or horizontal installation position in vertical pipes possible

AS0301 Stainless steel

Stainless steel CF8M / CF-8M

Stainless steel 1.4401 / AISI 316

external & rising

stainless steel CF8M / CF-8M

PN10/PN16

Stainless steel 1.4571 / AISI 316 TI

Carbon steel 1.0036

non-rising

graphite

Remarks:

Cast steel variant AS0300 with protective coating RAL5015, 40-60 µm, max. 120°C

Corrosivity category C1 in accordance with DIN EN ISO 12944 Part 2 (protection

Fitting in accordance with PED 2014/68/EU

TA-Luft 2021, tested according to DIN EN ISO 15848

AD2000 A4

Final test in accordance with DIN EN 12266

Strength-water PN*1.5; tightness in seat-water PN*1.1

Construction length:

According to DIN EN 558-1 basic series 14

Flange dimensions:

According to DIN EN 1092-1

Sealing strip:

According to DIN EN 1092-1 Type B1

Pressure-temperature assignment:

Intermediate values of the max. permissible operating pressures may be calculated by linear interpolation between the nearest lower and higher temperature values.

According to DIN EN 1092-1		-10°C	20°C	120°C	150°C	200°C	250°C	300°C	350°C	400°C
Cast steel 1.0619N	10 bar	10	10	9,2	8,8	8,3	7,6	6,9	6,4	5,9
Cast steel 1.0619N	16 bar	16	16	16	15,3	14	13	11	10,2	9,5

according to DIN EN 1092-1		-10°C	20°C	120°C	150°C	200°C	250°C	300°C	350°C	400°C
Stainless steel CF8M	10 bar	-	10	-	9	8,4	7,9	7,4	7,1	6,8
Stainless steel CF8M	16 bar	16	16	16	14,5	13,4	12,7	11,8	11,4	10,9

Materials:

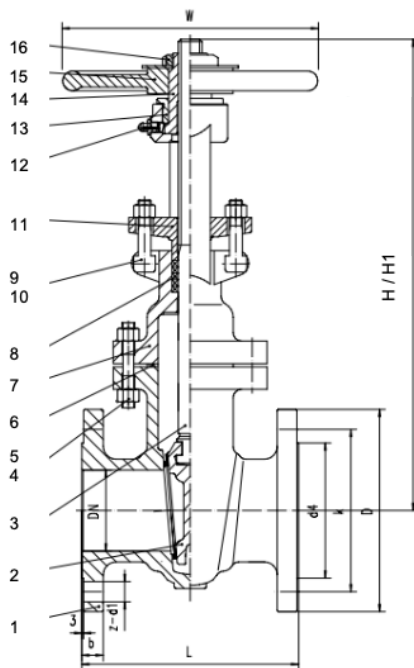


Illustration applies from DN50 to DN350

Pos.	Designation	Material AS0300 Cast steel 1.0619N	Material AS0301 Stainless steel CF8M
1	Housing	GP240GH+N / 1.0619N	GX5CrNoMo1991102 / 1.4408
1.1	Sealing surface	Stellite	Stellite
2	Wedge	GPH240GH+N / 1.0619N	GX5CrNoMo1991102 / 1.4408
2.1	Wedge sealing	13Cr	GX5CrNoMo1991102 / 1.4408
3	Spindle	X20Cr13 / 1.4021	X5CrNiMo17-12-2 / 1.4401
4	Threaded bolt	25CrMo4 / 1.7218	A4-70
5	Skt. nut	25CrMo4 / 1.7218	A4
6	Gasket	Graphite	Graphite
7	Hood	GP240GH+N / 1.0619N	GX5CrNoMo1991102 / 1.4408
8	Packing	Graphite	Graphite
9	Hinged screw	25CrMo4 / 1.7218	A4-70
10	Socket nut	Ck35 / 1.1181	A4
11	Stuffing box gland	GP240GH+N / 1.0619N	GX5CrNoMo1991102 / 1.4408
12	Threaded gland	GP240GH+N / 1.0619N	GJS-400-15 / 0.7040
13	Grease nipple	-	-
14	Handwheel	Carbon steel / 1.0036	Carbon steel / 1.0036
15	Handwheel nut	C35E / 1.1181	C35E / 1.1181
16	Bracket	GP240GH+N / 1.0619N	GX5CrNoMo1991102 / 1.4408

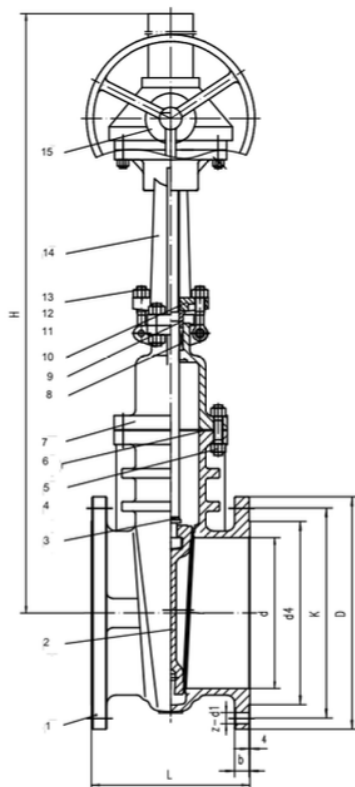


Illustration applies from DN400 to DN500

Pos.	Designation	Material AS0300 Cast steel 1.0619N	Material AS0301 Stainless steel CF8M
1	Housing	GP240GH+N / 1.0619N	GX5CrNoMo1991102 / 1.4408
1.1	Sealing surface	Stellite	Stellite
2	Wedge	GP240GH+N / 1.0619N	GX5CrNoMo1991102 / 1.4408
2.1	Wedge sealing	13Cr	GX5CrNoMo1991102 / 1.4408
3	Spindle	X20Cr13 / 1.4021	X5CrNiMo17-12-2 / 1.4401
4	Threaded bolt	25CrMo4 / 1.7218	A4-70
5	Skt. nut	25CrMo4 / 1.7218	A4
6	Gasket	Graphite	Graphite
7	Hood	GP240GH+N / 1.0619N	GX5CrNoMo1991102 / 1.4408
8	Packing	Graphite	Graphite
9	Hinged screw	25CrMo4 / 1.7218	A4-70
10	Stuffing box gland	GP240GH+N / 1.0619N	GX5CrNoMo1991102 / 1.4408
11	Threaded bolt	25CrMo4 / 1.7218	A4-70
12	Socket nut	Ck35 / 1.1181	A4
13	Bolt	-	A4-70
14	Bracket attachment	GP240GH+N / 1.0619N	GX5CrNoMo1991102 / 1.4408
15	Gearbox	C35E / 1.1181	C35E / 1.1181

Dimensions:

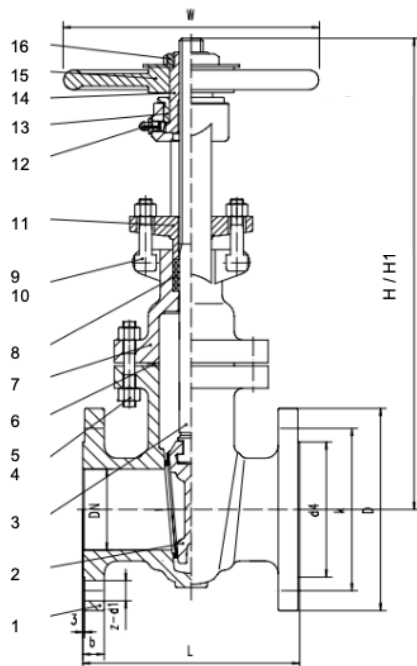


Illustration applies from DN50 to DN350
DN500

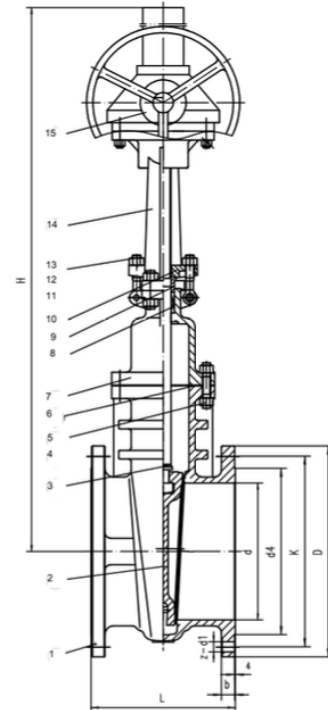


Illustration applies from DN400 to

	DN	50	65	80	100	125	150	200	250	300	350	400	500
PN10/PN16	PN	16	16	16	16	16	16	10	10	10	10	10	10
	W	200	200	260	280	250	300	315	400	500	500	530	530
	L	150	170	180	190	200	210	230	250	270	290	310	350
	H (closed)	325	375	420	470	535	600	800	950	1150	1400	1850	2150
	H1 (open)	390	455	520	580	680	760	930	1130	1320	1600	-	-
	D	165	185	200	220	250	285	340	395	445	505	565	670
	k	125	145	160	180	210	240	295	350	400	460	515	620
	d4	102	122	138	158	188	212	268	320	370	430	482	585
	b	18	18	20	20	22	22	24	26	26	26	26	28
	f	3	3	3	3	3	3	3	3	4	4	4	4
	n x d2Ø	4x18	4x18	8x18	8x18	8x18	8x22	8x22	12x22	12x22	16x22	16x26	20x26
	Sp Ø	Tr18x4LH	Tr20x4LH	Tr22x5LH	Tr22x5LH	Tr26x5LH	Tr28x5LH	Tr28x5LH	Tr32x6LH	Tr36x6LH	Tr42x7LH	Tr42x7LH	Tr50x8LH
	Nm	27	30	40	55	70	90	120	160	230	250	340	590
	Stroke	16	20	21	23	29	34	45	46	53	53	59	65
	Weight kg	16,0	20,0	27,0	32,0	48,0	63,0	91,0	132,0	176,0	255,0	370,0	-

Options (on request):

- Sprocket
- PTFE seal
- Position indicator

Item number:

Version	Pressure rating	material	Connection	Size
AS03 - Flat slide valve	0 - PN10/PN16*	0 - Cast steel 1.0619N 1 - stainless steel CF8M	00 - Flange	08 - DN50
				09 - DN65
				10 - DN80
				11 - DN100
				12 - DN125
				13 - DN150
				14 - DN200
				15 - DN250
				16 - DN300
				17 - DN350
				18 - DN400
				20 - DN500

Example no. AS03000012:

AS03 | 0 | 0 | 00 | 12

Flat gate valve made of cast steel
Pressure rating: PN10/16
Material: Cast steel 1.0619N
connection: Flange
Size: DN125

*PN16 up to DN150, PN10 from DN200

Illustration similar, subject to technical and dimensional changes.