Primary characteristics

These gate valves are made of carbon steel or alloy steel. The valve has bolted bonnets between body and gasket. The body is provided with guides designed to ensure accurate location of the wedge and the flexible wedge type gives good contact with the seat surfaces. The sealing surfaces is welded in Cr-steel or Stellite®.
The valve has a rising stem with outside threads and a back-seating at the stuffing box for protection of the packing in service.

- Rising stem in stainless steel
- Welded seats
- Graphite stuffing box

CE-marked according to Pressure Equipment Directive (PED 97/23/EG) module H, category III

Applications

The valves are intended for on-off service with low pressure drops and media that are not aggressive to the materials included in the valves.

Technical specification

Dimension:	DN 50 - 1200
Material:	Carbon steel, alloy steel
Pressure class:	PN16 to PN100
Temperature range:	-10 to 530° C (see table 1)
Connections:	Flanges acc. to EN1092-1, welding ends acc. to EN12627 with dimension acc. to DIN3239.
Face-to-face:	Flange acc. to EN558-1 Welding ends acc. to EN12982
Test pressure:	Acc. to EN12266

Pressure and temperature range (Table 1)

for material in group 3E0 and 5E0 according to EN1092-1

Material body	Pressure (bar) / temperature (°C)													
	PN	RT	50	100	150	200	250	300	350	400	450	500	520	530
Carbon steel 3E0 GP240GH (EN 1.0619)	16	16,0	15,6	14,9	13,9	12,4	11,4	10,3	9,6	9,2				
Alloy steel 5E0 (GS17CrMo5,5 (EN 1.7357)		16,0	16,0	16,0	16,0	16,0	15,6	14,6	13,5	12,8	12,1	9,7	6,7	5,5
Carbon steel 3E0 GP240GH (EN 1.0619)	25	25,0	24,4	23,3	21,7	19,4	17,8	16,1	15,0	14,4				
Alloy steel 5E0 (GS17CrMo5,5 (EN 1.7357)		25,0	25,0	25,0	25,0	25,0	24,4	22,8	21,1	20,0	18,9	15,2	10,4	8,7
Carbon steel 3E0 GP240GH (EN 1.0619)	40	40,0	39,0	37,3	34,7	30,2	28,4	25,8	24,0	23,1				
Alloy steel 5E0 (GS17CrMo5,5 (EN 1.7357)		40,0	40,0	40,0	40,0	40,0	39,1	36,4	33,8	32,0	30,2	24,4	16,7	13,5
Carbon steel 3E0 GP240GH (EN 1.0619)	63	63,0	61,4	58,8	54,6	47,6	44,8	40,6	37,8	36,4				
Alloy steel 5E0 (GS17CrMo5,5 (EN 1.7357)		63,0	63,0	63,0	63,0	63,0	61,6	57,4	53,2	50,4	47,6	38,4	26,3	21,8
Carbon steel 3E0 GP240GH (EN 1.0619)	100	100,0	97,5	93,3	86,7	75,6	71,1	64,4	60,0	57,8				
Alloy steel 5E0 (GS17CrMo5,5 (EN 1.7357)		100,0	100,0	100,0	100,0	100,0	97,8	91,1	84,4	80,0	75,5	60,9	41,8	34,7

V&A

Material specification (Table 2)

Item	Part	Material		
		Carbon steel type 3E0		Alloy steele type 5E0
		Up to 350ºC [1]	Up to 400ºC	Up to 530ºC
1	Body	GP240GH (EN 1.0619)	GP240GH (EN 1.0619)	GS17CrMo5.5 (EN 1.7357)
2	Bonnet	GP240GH	GP240GH	GS17CrMo5.5
3	Wedge from DN 50 to150	CA15	CA15	CA15
3	Wedge from DN 200 and up	GP240GH	GP240GH	GS17CrMo5.5
4	Body seat	X8Cr14	Stellite®	Stellite®
5	Wedge seat	X8Cr18	Stellite®	Stellite®
6	Stem	X20Cr13	X20Cr13	X20Cr13
7	Stem nut	G-NiAlBZF50	G-NiAlBZF50	9S MnPb28K
8	Body/bonnet gasket	Spirale wounded	Spirale wounded	Spirale wounded
9	Stuffing box	Graphite	Graphite	Graphite
10	Bolt	DIN 8.8	DIN 8.8	21CrMoV57
11	Nut	DIN 8.8	DIN 8.8	21CrMoV57

1) Recommended max temperature

Figure 1

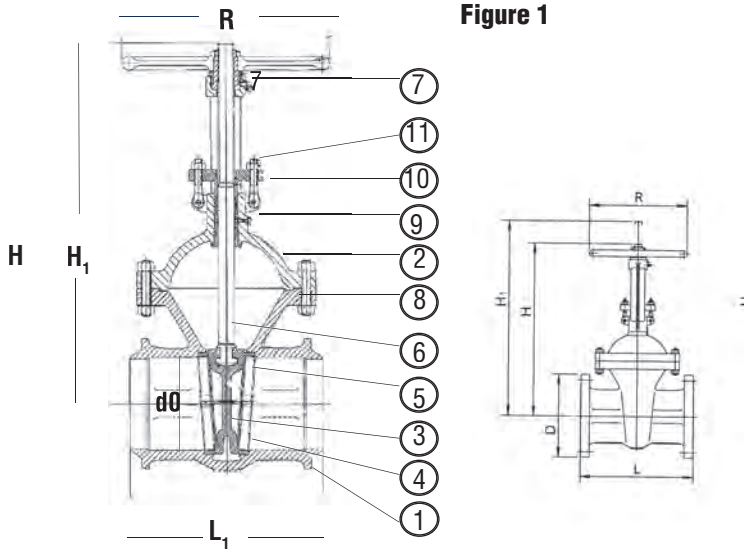
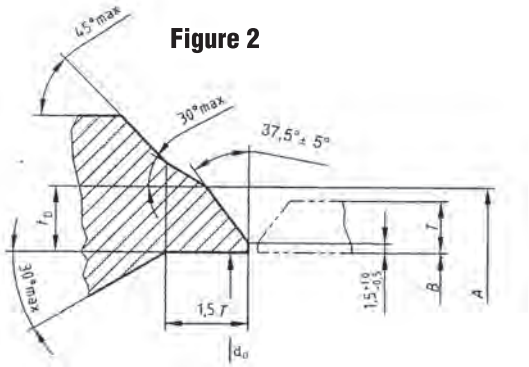


Figure 2



$t_D \leq T \times 1,5$

according to EN 12627:1999

Dimensions and weights PN16/25 (Table 3)

DN	Flanged					Butt weld ends					H mm	H1 mm	R mm	dO mm	Kv
	D mm		L mm	Weight kg		L1 mm	Weight kg		A mm	B mm					
	PN 16	PN 25		PN 16	PN 25		PN 16	PN 25							
50	165	165	250	[1]	24	250	20 [1]	20	61	54	390	450	200	50	270
65	185	185	270	27	27	270	23 [1]	23	77	70	430	505	200	65	410
80	200	200	280	36	36	280	26 [1]	26	90	82	460	545	250	80	610
100	220	235	300	50	50	300	40 [1]	40	115	106	490	600	250	100	1120
125	250	270	325	67	67	325	51 [1]	51	141	131	620	760	300	125	1720
150	285	300	350	90	90	350	75 [1]	75	170	159	640	805	300	150	2670
200	340	360	400	145	150	400	115 [1]	118	222	207	810	1025	400	200	4910
250	405	425	450	256	269	450	202	212	276	260	935	1205	500	250	7660
300	460	485	500	379	400	500	340	370	325	309	1065	1385	500	300	11010
350	520	555	550	590	631	550	540	590	354	338	1180	1540	560	337	13940
400	580	620	600	850	900	600	790	840	411	390	1335	1745	640	387	18490
500	715	730	700	958	1166	700	880	1090	512	480	1610	2115	720	489	29500
600	840	845	800	1550	1650	800	1330	1400	Contact NAF		1875	2490	720 *	591	43090
700	910	960	900	2135	2245	900	1805	1900	Contact NAF		2160	2880	800 *	692	59170

> 700 Contact NAF 1) = Choose PN25 * Rec. manual gaear

PN40 (Table 4)

DN	Flanged			Butt weld ends				H	H_1	R	dO	Kv
	D mm	L mm	Weight kg	L_1 mm	Weight kg	A mm	B mm	mm	mm	mm	mm	
50	165	250	29	250	26	61	54	390	450	180	50	270
65	185	290	39	290	35	77	70	430	505	225	65	410
80	200	310	52	310	45	90	82	460	545	225	80	610
100	235	350	73	350	61	115	106	525	635	280	100	1120
125	270	400	96	400	80	141	131	620	760	310	125	1720
150	300	450	122	450	103	170	159	640	805	330	150	2670
200	375	550	228	550	195	222	207	810	1025	375	200	4910
250	450	650	330	650	284	276	260	955	1225	390	250	7660
300	515	750	540	750	510	325	309	1090	1410	500	300	11010
350	580	850	670	850	620	354	338	1215	1575	500	337	13940
400	660	950	950	950	870	411	390	1370	1780	600	387	18490
500	755	1150	1200	1150	1110	512	480	1645	2150	800 *	482	28730

> 500 Contact NAF * = Rec. manual gear

PN63 (Table 5)

DN	Flanged			Butt weld ends				H	H_1	R	dO	Kv
	D mm	L mm	Weight kg	L1 mm	Weight kg	A mm	B mm	mm	mm	mm	mm	
50	180	250	32	250	30	61	54	435	495	225	50	270
65	205	290	43	290	40	77	70	475	550	225	65	410
80	215	310	60	310	54	90	82	500	585	225	80	610
100	250	350	89	350	80	115	106	585	695	275	100	1120
125	295	400	140	400	130	141	131	700	835	375	125	1720
150	345	450	207	450	190	170	159	760	925	375	150	2670
200	415	550	325	550	300	222	207	970	1185	450	200	4910
250	470	650	467	650	425	276	258	1200	1470	500	250	7660
300	530	750	590	750	550	325	302	1350	1670	560	300	11010
350	600	850	700	850	650	359	330	1400	1760	600	333	13680
400	670	950	1100	950	1000	411	380	1620	2030	650 *	381	17890

> 400 Contact NAF * = Rec manual gear

PN100 (Table 6)

DN	Flanged			Butt weld ends				H	H_1	R	dO	Kv
	D mm	L mm	Vikt kg	L_1 mm	Vikt kg	A mm	B mm	mm	mm	mm	mm	
50	195	250	56	250	52	61	54	435	495	225	50	270
65	220	290	75	290	70	77	70	475	550	225	65	410
80	230	310	111	310	100	90	82	500	585	250	80	610
100	265	350	122	350	110	115	106	585	695	250	100	1120
125	315	400	194	400	180	141	129	700	835	300	125	1720
150	355	450	272	450	250	170	157	760	925	400	150	2670
200	430	550	390	550	360	222	205	970	1185	500	200	4910
250	505	650	533	650	485	276	256	1200	1470	640	248	7230
300	585	750	680	750	633	325	296	1350	1670	800	298	10580
350	655	850	1066	850	990	359	323	1400	1760	800 *	327	13160
400	715	950	1386	950	1260	411	374	1620	2030	900 *	375	17290

> 400 Contact NAF * = Rec. manual gear

Product code

Example

	48	6	6	7	6	-	0100
Code	1	2	3	4	5		6

Other versions

	Example
Locked hand wheel	486676-0100LG
Prepared for limit switch	486676-0100S
Bypass valve	Contact NAF
Gear	Contact NAF
ISO-flange for el. actuator	486676-0100F10
Provided with connection for pressure relief valve	Contact NAF

1. Valve type

48 Gate valve

2. Material

6 Steel as per code 4

3. Pressure class

3 PN16 Choose PN 25 for welded ends □ DN 200
5 PN25
6 PN40
7 PN63
8 PN100

4. Body material

7 GP240GH (EN 1.0619) Carbon steel
9 GS17CrMo5,5 (EN 1.7375) Alloy steel

5.

Version		Seat mtrl	Body mtrl
6	Flanged	Cr	only in GP240GH
7	Welding ends	Cr	only inGP240GH
8	Flanged	Stellite□	
9	Welding ends	Stellite□	

6.

Dimension	DN
0050	50
0065	65
0080	80
0100	100
0125	125
0150	150
0200	200
0250	250
0300	300
0350	350
0400	400
0500	500
0600	600
0700	700
>700	Contact NAF

V&A™
www.valve.co.za

Johannesburg Tel : 011-397 2833
Fax : 011-397 4700
E-mail : sales.jhb@valve.co.za
Durban Tel : 031-579 2593
Fax : 031-579 2562
E-mail : sales@valve.co.za