

**GS DN50 - 500 [2" – 20"] Pmax: 16bar**

**Features and Advantages**

Little dimensions and low weights.  
 Easy mounting between flanges with any packing. To be installed with vertical (only upwards) or horizontal flow.  
 For downwards fluids spring version is to be used.  
 No leakage with soft seat;  
 acc. to API 598 with metallic seat.  
 DIN EN 558-1 Series 97  
 Low head losses.

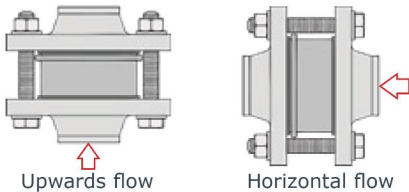
**GN 011 - GN 015**

Flange:  
 DN 40÷500 PN 6÷16, A150 - P max:25 Bar  
 DN 40÷300 ANSI 300 - P max:52 Bar

**Certifications:**



To be installed in two positions

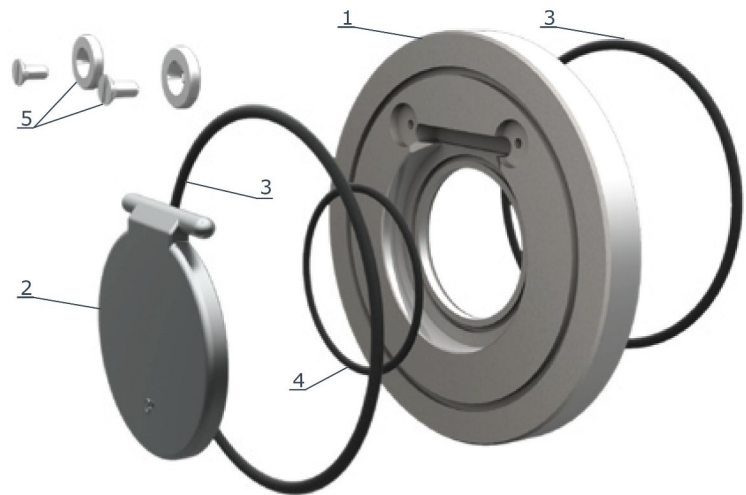


**NOTE 1**

In these pages you will find the description of the standard swing check valves.  
 On request different materials can be supplied (Aluminium-Bronze, Hastelloy, Monel, Duplex, etc.).

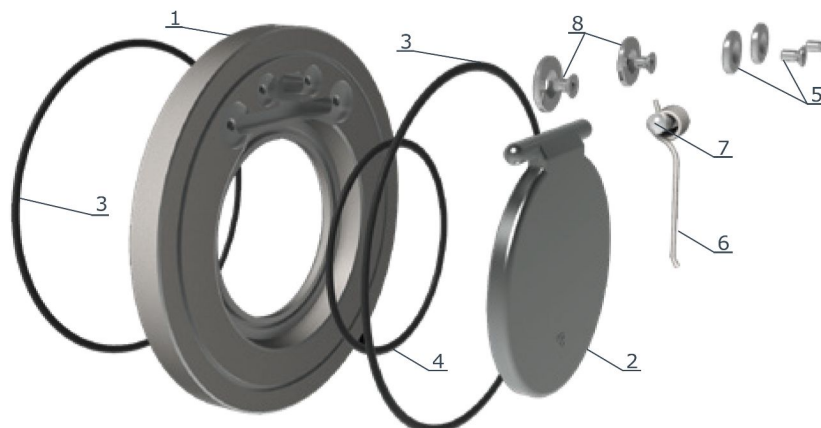
**NOTE 2**

The standard GS valve cannot be installed between flanges with spirometallic packings. For this application the body finishing must be modified and the O.rings removed. Please contact our technical department for assistance.



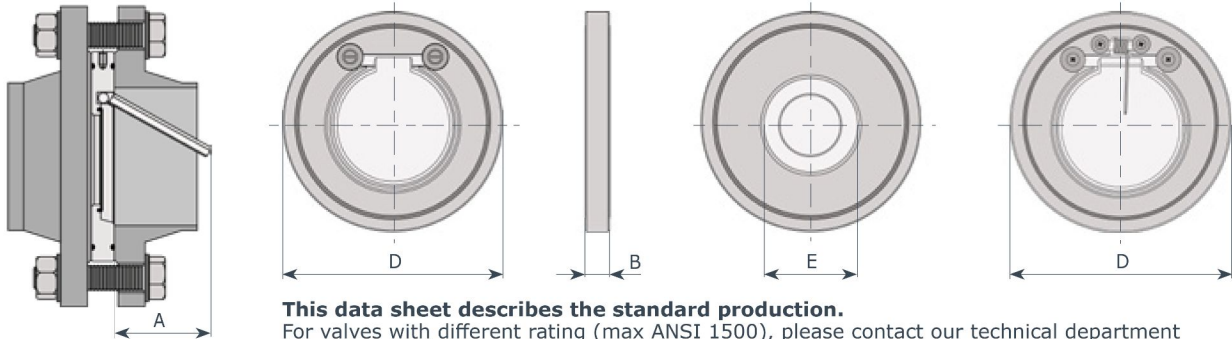
standard type

item	q.ty	part	GS 011	GS 015
			material	material
1	1	body	• zinc plated steel	• AISI 316
2	1	clapet	• AISI 316 (DN 40-200) • zinc plated steel (DN 250-500)	• AISI 316
3-4	1	O.ring	• NBR (BUNA) • EPDM • FKM (VITON) • PTFE	• NBR (BUNA) • EPDM • FKM (VITON) • PTFE
5	2 + 2	screw	• AISI 316	• AISI 316
6	1	spring	• AISI 316	• AISI 316
7	1	pin	• AISI 316	• AISI 316
8	2 + 2	screw	• AISI 316	• AISI 316



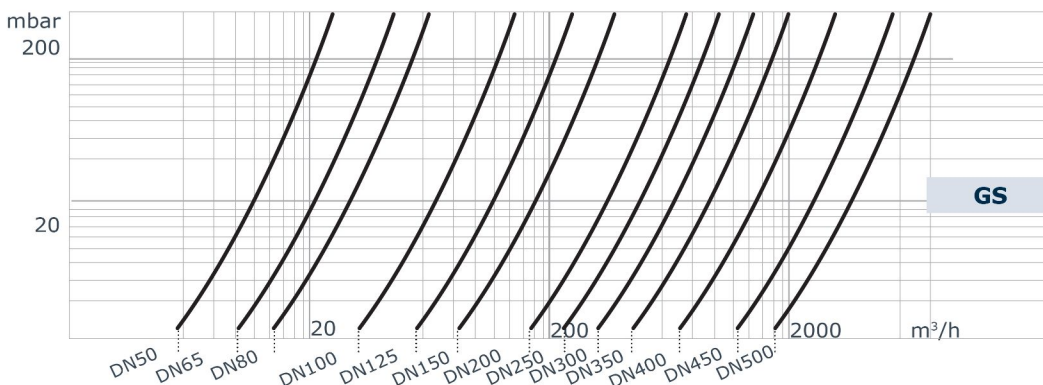
spring type

**Overall dimensions**



DN	A	PN 6			PN 10			PN 16			ANSI 150			Kg max	ANSI 300			Kg
		D	E	B	D	E	B	D	E	B	D	E	B		D	E	B	
40	30	88	22	14	95	22	14	95	22	14	86	22	14	0.7	95	22	14	0.7
50	35	98	32	14	109	32	14	109	32	14	106	32	14	0.9	109	32	14	0.9
65	48	118	40	14	128	40	14	128	40	14	124	40	14	1.2	128	40	14	1.2
80	60	134	54	14	145	54	14	145	54	14	138	54	14	1.5	145	54	14	1.5
100	78	154	70	18	164	70	18	164	70	18	175	70	18	2.5	179	70	18	3.2
125	98	184	92	18	195	92	18	195	92	18	195	92	18	3.2	214	92	32	7.6
150	117	209	112	20	221	112	20	221	112	20	221	112	20	5.3	249	112	32	10.3
200	160	264	154	22	275	154	22	275	154	22	279	154	22	9.7	308	154	42	19.7
250	200	319	200	26	330	200	26	330	200	26	339	200	26	16.2	359	200	47	24.8
300	235	375	240	32	380	240	32	387	240	32	410	240	32	28	425	240	52	45.6
350	258	425	270	38	440	270	38	447	270	38	450	270	38	32	-	-	-	-
400	300	475	310	44	490	310	44	495	310	44	514	310	44	48	-	-	-	-
450	331	530	360	50	540	260	50	557	360	50	548	360	50	63	-	-	-	-
500	368	580	405	56	595	405	56	619	405	56	605	405	56	87	-	-	-	-

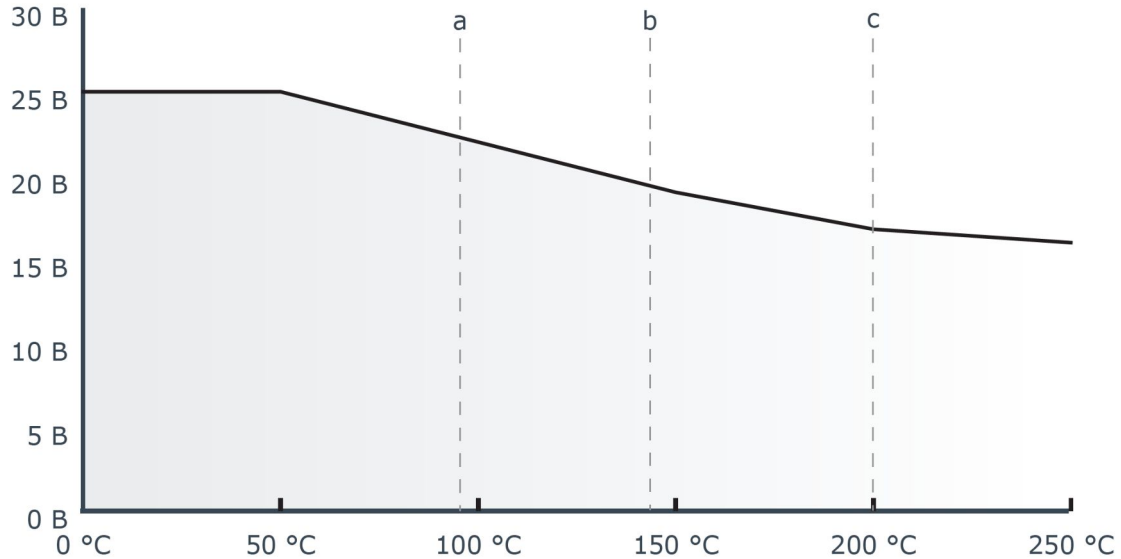
**Head losses (H2O - 20°C - horizontal flow, standard spring)**



- a NBR T<sub>MAX</sub> = 95°C
- b EPDM T<sub>MAX</sub> = 130°C
- c VITON T<sub>MAX</sub> = 200°C
- PTFE T<sub>MAX</sub> = 200°C

Values indicated in this table are only for informations.

**Temperature - pressure diagram**



**Formula for calculation of equivalent flow rate to H2O**

For different liquid, gas or steam head losses are determined by equivalent water flow rate, as follows:

$$Q_e = Q \sqrt{\frac{d}{1000}}$$

- Q<sub>e</sub> equivalent water flow (m<sup>3</sup>/h o l/s)
- Q fluid flow (m<sup>3</sup>/h o l/s)
- d fluid specific gravity (Kg/m<sup>3</sup>)



**NOTES:**

The valves presented in this catalog are manufactured in the EU by Ghibson Italia srl. according to our specifications