

**GS 011 - GS 015 - GS 095**  
**DN 40 - 600 • 1<sup>1/2</sup>" - 24"**

### Features and Advantages

Little dimensions and low weights.

Leakage:

according to EN 12266-1 Rate A with soft seat,  
 according to EN 12266-1 Rate E with metal seat.  
 Face to Face according to DIN EN 558 Series 97.

Low head losses.

Faces final quality

O-ring version: Smooth Finish

Metallic seat: AARH 125-150

In case of use with spirometallic  
 packing API 601 ask for the Metallic seat version.

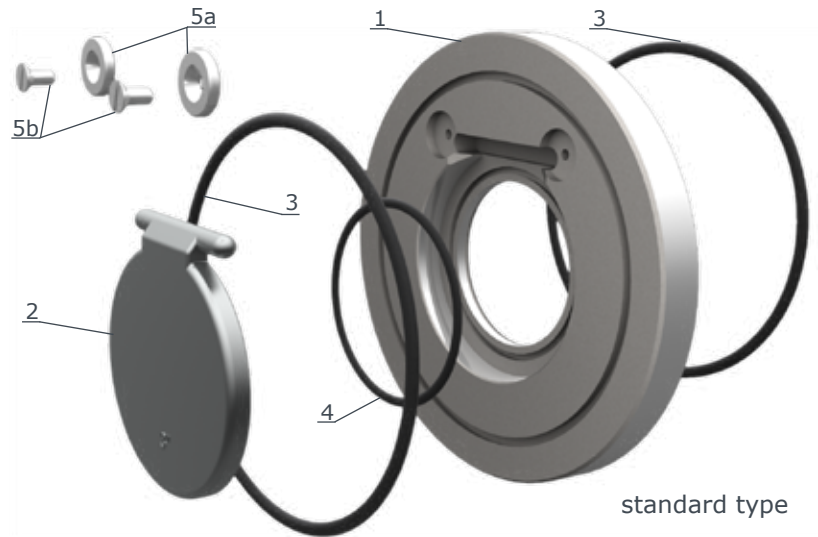
On request different materials can be supplied

### GS 011 - GS 015 - GS 095

Flange:

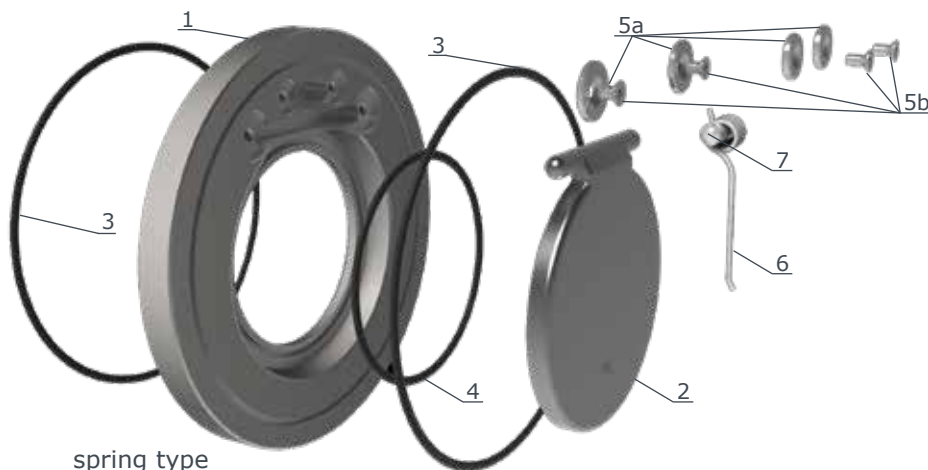
DN 40÷600 PN 6÷25, A150 - P max:25 Bar  
 DN 40÷300 ANSI 300 - P max:52 Bar

### Certifications:



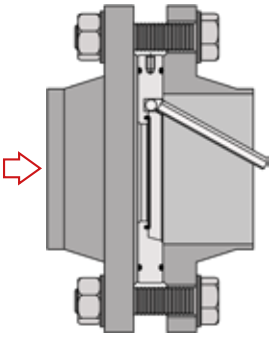
standard type

pos.	q.ty	part	GS 011 material	GS 015 material	GS 095 material
1	1	body	<ul style="list-style-type: none"> <li>• DN040-065: zinc plated steel ASTM 105</li> <li>• DN080-600: P355NH</li> </ul>	<ul style="list-style-type: none"> <li>• EN 1.4401 (A316)</li> </ul>	<ul style="list-style-type: none"> <li>• Super Duplex EN 1.4501 (UNS S32760)</li> </ul>
2	1	clapet	<ul style="list-style-type: none"> <li>• DN040-200: EN 1.4408 (A351 CF8M)</li> <li>• DN250-600: P355NH</li> </ul>	<ul style="list-style-type: none"> <li>• DN040-200: EN 1.4408 (A351 CF8M)</li> <li>• DN250-600: EN 1.4404 (A316L)</li> </ul>	<ul style="list-style-type: none"> <li>• Super Duplex EN 1.4501 (UNS S32760)</li> </ul>
3-4	1	O.ring	<ul style="list-style-type: none"> <li>• NBR (BUNA)</li> <li>• EPDM</li> <li>• FKM (VITON)</li> <li>• PTFE</li> </ul>	<ul style="list-style-type: none"> <li>• NBR (BUNA)</li> <li>• EPDM</li> <li>• FKM (VITON)</li> <li>• PTFE</li> </ul>	<ul style="list-style-type: none"> <li>• NBR (BUNA)</li> <li>• EPDM</li> <li>• FKM (VITON)</li> <li>• PTFE</li> </ul>
5a	2+2	washer	<ul style="list-style-type: none"> <li>• EN 1.4401 (A316)</li> </ul>	<ul style="list-style-type: none"> <li>• EN 1.4401 (A316)</li> </ul>	<ul style="list-style-type: none"> <li>• Super Duplex EN 1.4501 (UNS S32760)</li> </ul>
5b	2+2	screw	<ul style="list-style-type: none"> <li>• A4 (A316)</li> </ul>	<ul style="list-style-type: none"> <li>• A4 (A316)</li> </ul>	<ul style="list-style-type: none"> <li>• Super Duplex EN 1.4501 (UNS S32760)</li> </ul>
6	1	spring	<ul style="list-style-type: none"> <li>• EN 1.4401 (A316)</li> </ul>	<ul style="list-style-type: none"> <li>• EN 1.4401 (A316)</li> </ul>	<ul style="list-style-type: none"> <li>• INCONEL 718</li> </ul>
7	1	pin	<ul style="list-style-type: none"> <li>• EN 1.4401 (A316)</li> </ul>	<ul style="list-style-type: none"> <li>• EN 1.4401 (A316)</li> </ul>	<ul style="list-style-type: none"> <li>• Super Duplex EN 1.4501 (UNS S32760)</li> </ul>



spring type

GS 011 - GS 015 - GS 095

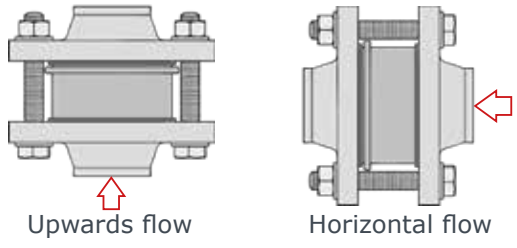


Easy mounting between flanges with any packing.

In case of horizontal throughput, the ring screw must be at the top.

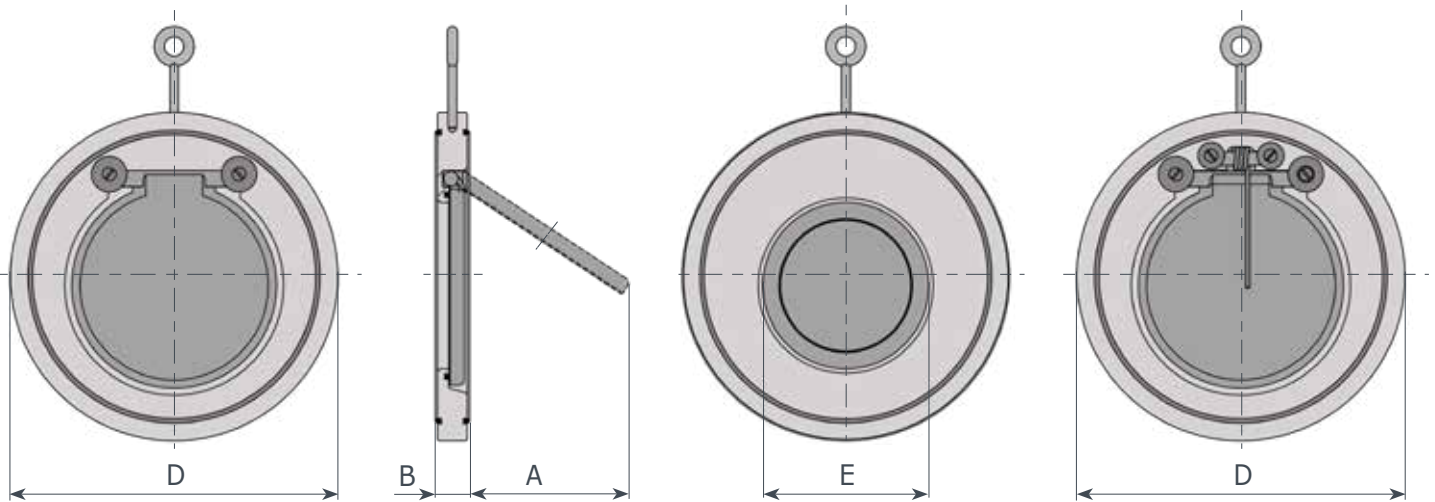
Watch flow direction (see arrow on the plate)

To be installed in two positions



Upwards flow

Horizontal flow

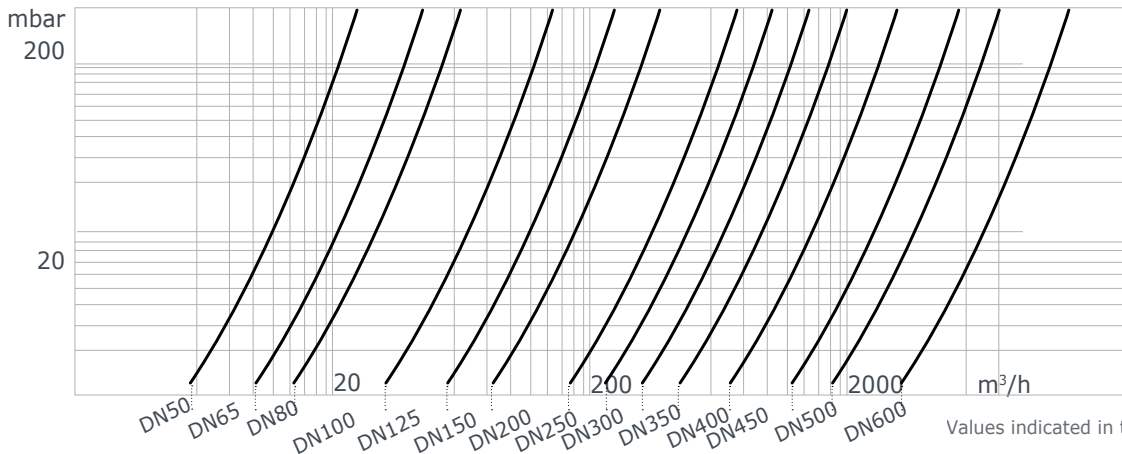


**This data sheet describes the standard production.**

For valves with different rating (max ANSI 1500), please contact our technical department

DN	A	PN 6			PN 10			PN 16			PN 25			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	95	22	14	86	22	14	0.7	95	22	14	0.7
50	35	98	32	14	109	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	128	40	14	124	40	14	1.2	128	40	14	1.2
80	60	134	54	14	145	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	170	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	195	92	18	3.2	214	92	32	7.6
150	117	209	112	20	221	112	20	221	112	20	228	112	20	221	112	20	5.3	249	112	32	10.3
200	160	264	154	22	275	154	22	275	154	22	287	154	22	279	154	22	9.7	308	154	42	19.7
250	200	319	200	26	330	200	26	330	200	26	344	200	26	339	200	26	16.2	359	200	47	24.8
300	235	375	240	32	380	240	32	387	240	32	404	240	32	410	240	32	28	425	240	52	45.6
350	258	425	270	38	440	270	38	447	270	38	460	270	38	450	270	38	32	-	-	-	-
400	300	475	310	44	490	310	44	495	310	44	514	310	44	514	310	44	48	-	-	-	-
450	331	530	355	50	540	355	50	557	355	50	567	355	50	548	355	50	63	-	-	-	-
500	368	580	405	56	595	405	56	619	405	56	627	405	56	605	405	56	87	-	-	-	-
600	410	682	486	64	698	486	64	735	486	64	735	486	64	715	486	64	136	-	-	-	-

### Head losses (H2O - 20°C - horizontal flow)



GS

Values indicated in this table are only for informations.

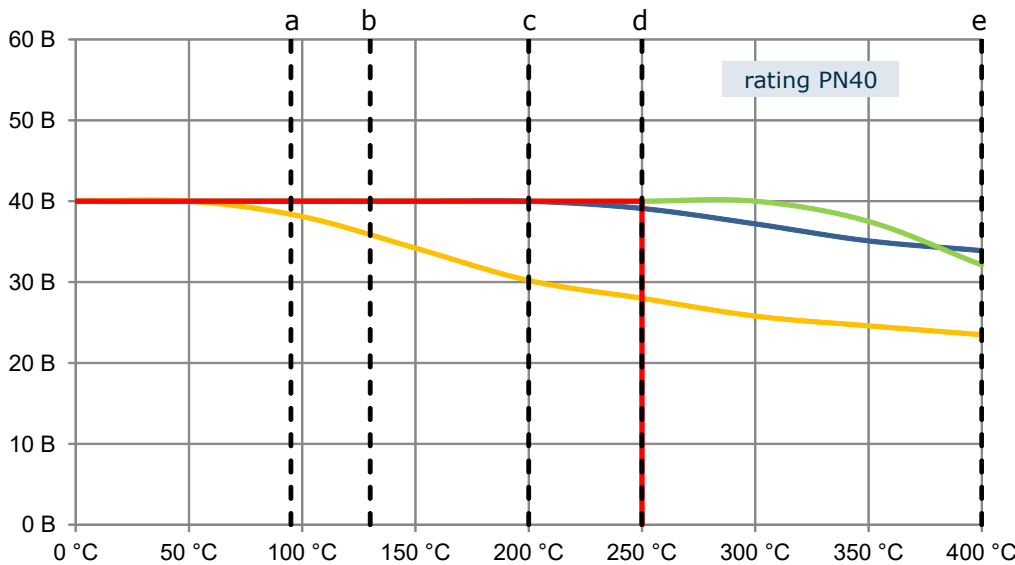
### Formula for calculation of equivalent flow rate to H2O

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

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

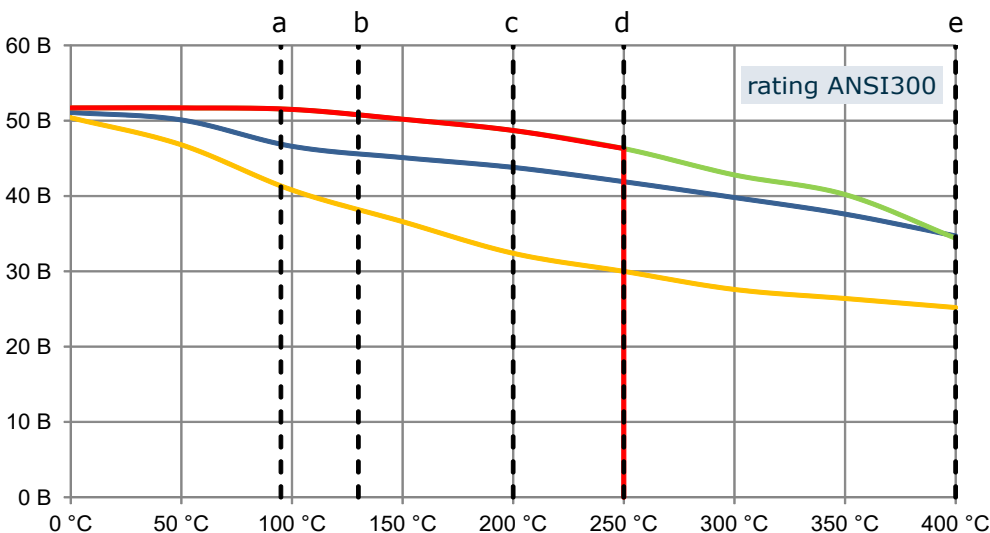
$Q_e$  equivalent water flow ( $m^3/h$  o  $l/s$ )       $Q$  fluid flow ( $m^3/h$  o  $l/s$ )       $d$  fluid specific gravity ( $Kg/m^3$ )

### Temperature - pressure diagram



- GS011 DN040-065
- GS011 DN080-600
- GS015
- GS095

- a** NBR seat  $T_{max} = 95^\circ C$
- b** EPDM seat  $T_{max} = 130^\circ C$
- c** FKM/PTFE seat  $T_{max} = 200^\circ C$
- d** Metallic seat with EN 1.4401 (A316) spring  $T_{max} = 250^\circ C$
- e** Metallic seat with INCONEL C276 spring  $T_{max} = 400^\circ C$



- GS011 DN040-065
- GS011 DN080-600
- GS015
- GS095