

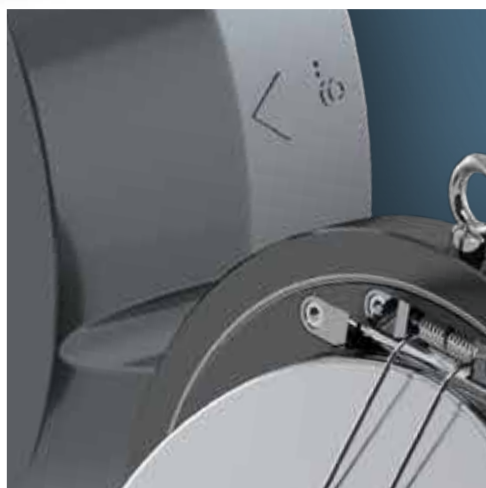
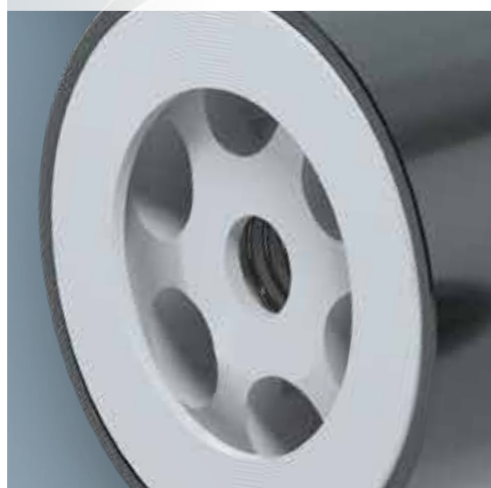


GIBSON

valves

**Check
valves**

**DISC &
SWING Type**





Check valves

DISC & SWING Type

DISC TYPE Gibson disc check valves (G Series) represent an extensive combination of solutions starting from low pressure design up to 160 Bars. G series is basically composed by three product line (GA-GB / GN-GT / GH) with a wide range of materials and customizations.

SWING TYPE Gibson swing check valves (GS series) are manufactured in many materials as well as pressure ratings and flange connections. Available for general purpose applications and also with spring loaded flap.



DISC TYPE

GA - GB Series

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• temperature/pression	4

GN - GT Series

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GH Series

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SWING TYPE

GS Series

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GHIBSON

Zola Predosa
Bologna

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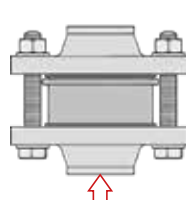


GA 015 DN 15 - 100 • 1/2" - 4"

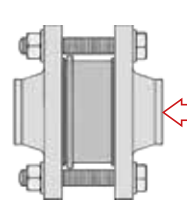
Features and Advantages

Little dimensions and low weights
 Face to face acc.to DIN EN 558 Series 49 (DIN 3202 K4).
 Opening pressure from 20 to 500 mBar.
 Usable also as vacuum breaker, overpressure and bottom valve.
 Leakage:
 according to EN 12266-1 Rate A with soft seat
 according to EN 12266-1 Rate E with metal seat / PTFE
 Low head losses.

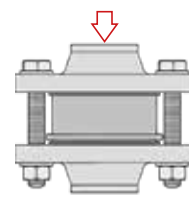
To be installed in any position



Upwards flow



Horizontal flow



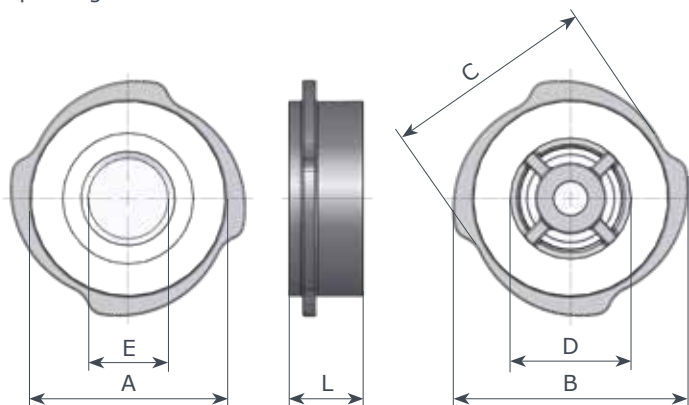
Downwards flow

GA 015 DN 15 - 100 • 1/2" - 4"

Features

DN 15/100: P max: **52 Bar**
 Flange:
 DN 15÷80 **PN 6÷40, A150÷300**
 DN 100 **PN 10÷40, A150÷300**

Faces final quality: AARH 250/500
 This type of valve cannot be used with spirometallic packing.

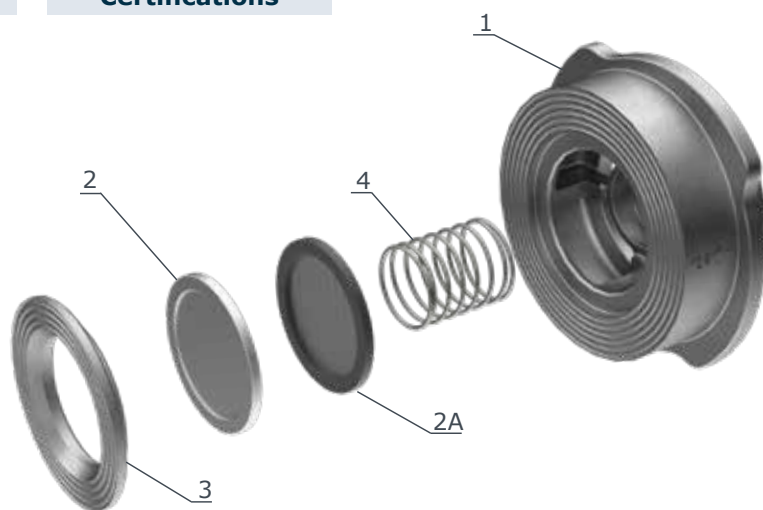


DN	15	20	25	32	40	50	65	80	100
A	43	48	58	68	75	94	113	129	159
B	54	64	71	81	93	110	130	149	181
C	45	54	63	70	82	95	115	131	160
D	23	28	36	50	58	71	86	105	130
E	15	20	24	31	38	47	62	77	95
L	16	19	22	28	32	40	46	50	60
Kg	0,12	0,18	0,29	0,45	0,61	1,1	1,6	2,2	3,8

minimum opening pressure with standard springs

flusso	DN	15	20	25	32	40	50	65	80	100
Δ	mBar	25	25	25	27	29	29	31	32	33
▷	mBar	23	23	23	24	25	25	26	26	27
▽	mBar	21	21	21	21	21	21	21	21	21
Δ without spring	mBar	2	2	2	3	4	4	5	5	6

Certifications



item	q.ty	part	material
1	1	body	• EN 1.4408 (A351 CF8M)
2	1	disc	• EN 1.4404 (A316L)
2A	1	on request	• EN 1.4404 (A316L) + NBR • EN 1.4404 (A316L) + EPDM • EN 1.4404 (A316L) + FKM
3	1	seat disc on request	• EN 1.4401 (A316) • EN 1.4401 (A316) + PTFE
4	1	spring-standard on request	• EN 1.4401 (A316) • Hastelloy C276

special spring table

DN	15	20	25	32	40	50	65	80	100
50 mBar	Y	Y	Y	Y	Y	Y	Y	Y	Y
100 mBar	Y	Y	Y	Y	Y	Y	Y	Y	Y
200 mBar	Y	Y	Y	Y	Y	Y	Y	Y	Y
300 mBar	Y	Y	Y	Y	Y	Y	Y	Y	Y
500 mBar	Y	Y	Y	Y	Y	Y	N	N	N

Y = available / N = not available
 Opening values may vary ±10%

GB 015 DN 15 - 100 • 1/2" - 4"

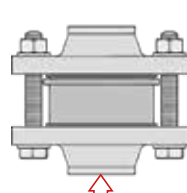
Features and Advantages

Little dimensions and low weights
Face to face acc.to DIN EN 558 Series 49
(DIN 3202 K4).

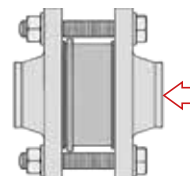
Usable also as vacuum breaker,
overpressure and bottom valve.

Leakage:
according to EN 12266-1 Rate A with soft seat,
according to EN 12266-1 Rate E with metal seat.
Low head losses.

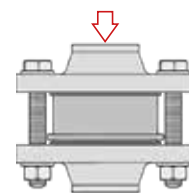
To be installed in any position



Upwards flow



Horizontal flow



Downwards flow

GB 015 DN 15 - 100 • 1/2" - 4"

Features

DN 15/100: P max: **52 Bar**

Flange:

DN 15÷80

PN 6÷40, A150÷300

DN 100

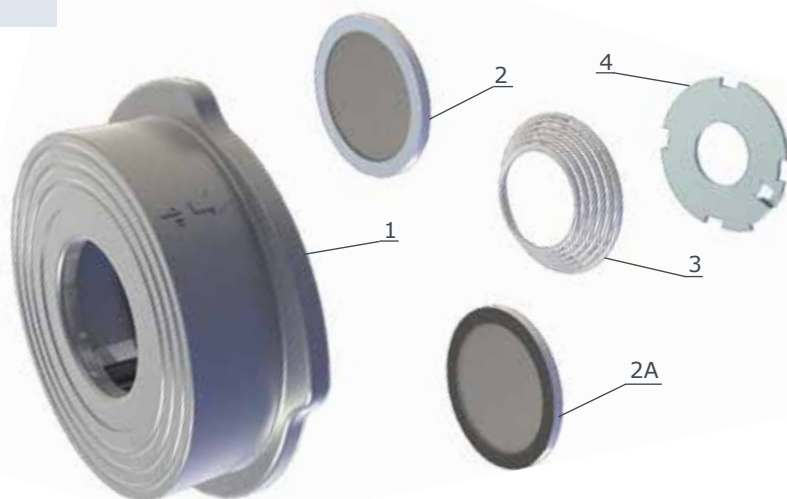
PN 10÷40, A150÷300

Final quality

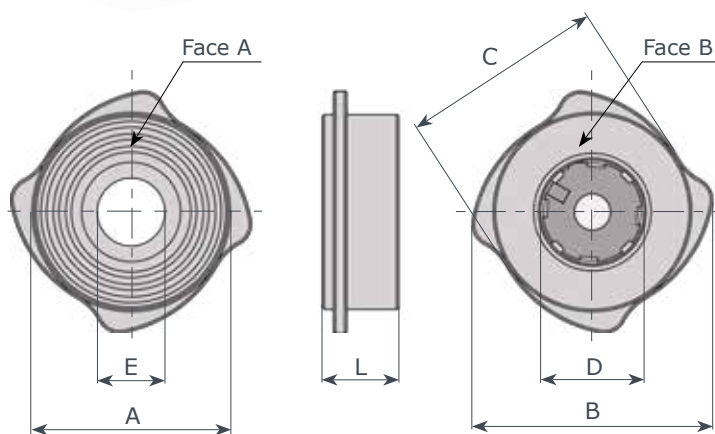
Face A: raw casting

Face B: AARH 250/500

Certifications



GB 015			
item	q.ty	part	material
1	1	Bbody	• EN 1.4408 (A351 CF8M)
2	1	disco	• EN 1.4404 (A316L)
2A	1	on request	• EN 1.4404 (A316L) + NBR • EN 1.4404 (A316L) + EPDM • EN 1.4404 (A316L) + FKM
3	1	spring standard	• EN 1.4401 (A316)
4	1	stop ring	• EN 1.4404 (A316L)



minimum opening pressure with standard springs											
flow	DN	15	20	25	32	40	50	65	80	100	
△	mBar	25	25	25	27	28	30	30	25	21	
▷	mBar	23	23	23	25	23	24	24	19	15	
▽	mBar	21	21	21	22	18	18	18	13	9	
△ without spring	mBar	nd	nd	nd	nd	nd	nd	nd	nd	nd	

GB 015										
DN	15	20	25	32	40	50	65	80	100	
A	43	48	58	68	75	94	113	129	159	
B	54	64	71	81	93	110	130	149	181	
C	45	54	63	72	82	95	115	131	160	
D	23	28	36	50	58	71	86	105	130	
E	14	19	25	31	38	48	62	77	95	
L	17	20	22	28	32	40	46	50	60	
Kg	0.11	0.18	0.26	0.4	0.55	1	1.5	2	3.2	

GB 023 DN 15 - 100 • 1/2" - 4"

Features and Advantages

Max working pressure: 6 Bar
 Max working temperature: 180°C
 Faces final quality: AARH 250/500
 This type of valve cannot be used with spirometallic packing.
 Leakage according to EN 12266-1 Rate E

Certifications



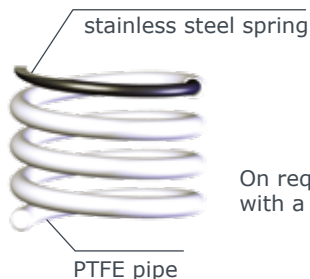
GB 023 DN 15 - 100 • 1/2" - 4"

Features

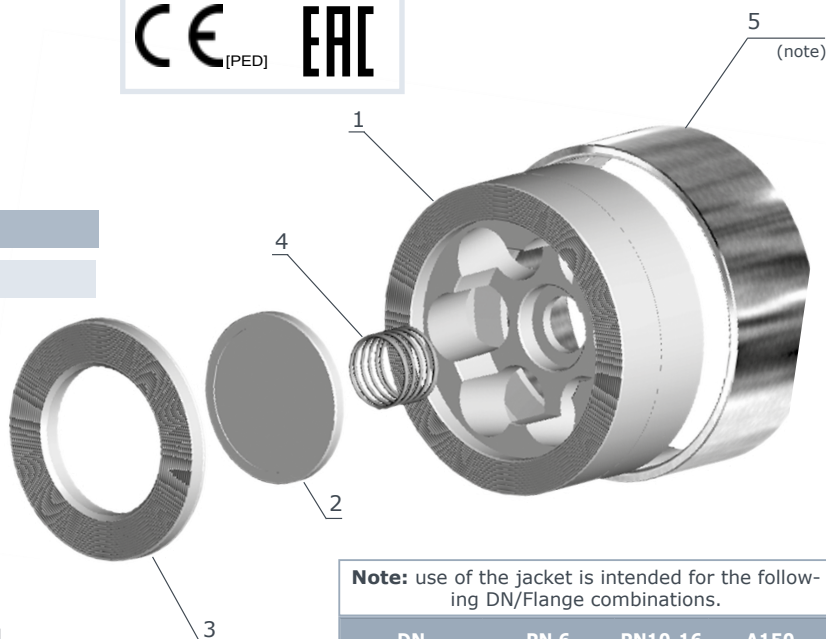
DN 15/100 P. max: **6 bar**

Flange:

DN 15÷100 **PN 10÷16**



On request spring can be coated with a PTFE pipe sealed at the end.



Note: use of the jacket is intended for the following DN/Flange combinations.

DN	PN 6	PN10-16	A150
015-080	-	jacket	-
100	-	jacket	jacket

Note for installation:

Centre the valve carefully before tightening the flanges. Tighten the flange screws by applying the torque values shown nearby. Remember to cross tighten the screws. These values are measured at room temperature with new screws and lubricated threads.

DN	15	20	25	32	40	50	65	80	100
screw	4x M12	4x M12	4x M12	4x M16	4x M16	4x M16	4x M16	4x M16	8x M16
tightening torque Nmt	10	10	20	35	35	35	40	40	45

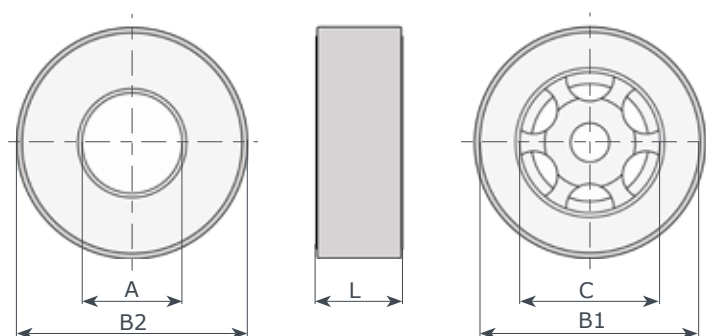
GB 023			
iem	q.ty	part	material
1	1	body	• PTFE
2	1	disc	• PTFE
3	1	seat	• PTFE
4	1	spring <i>on request</i>	• Hastelloy C276 • EN 1.4401 (A316) + PTFE • EN 1.4401 (A316) + Nyflon
5	1	jacket	• EN 1.4301 (TP304L)

special spring table (only spring A316+Nyflon)									
DN	15	20	25	32	40	50	65	80	100
50 mBar	Y	Y	Y	Y	Y	Y	Y	Y	Y
100 mBar	Y	Y	Y	Y	Y	Y	Y	Y	Y
200 mBar	Y	Y	Y	Y	Y	Y	Y	Y	Y
300 mBar	Y	Y	Y	Y	Y	Y	Y	Y	Y
500 mBar	Y	Y	Y	Y	Y	Y	N	N	N

Y = available / N = not available

Opening values may vary ±10%

minimum opening pressure with standard springs										
flow	DN	15	20	25	32	40	50	65	80	100
Δ	mBar	23	23	24	25	26	26	27	27	29
▷	mBar	22	22	22.5	23	23.5	23.5	24	24	25
▽	mBar	21	21	21	21	21	21	21	21	21
Δ without spring	mBar	1	1	1.5	2	2.5	2.5	3	3	4



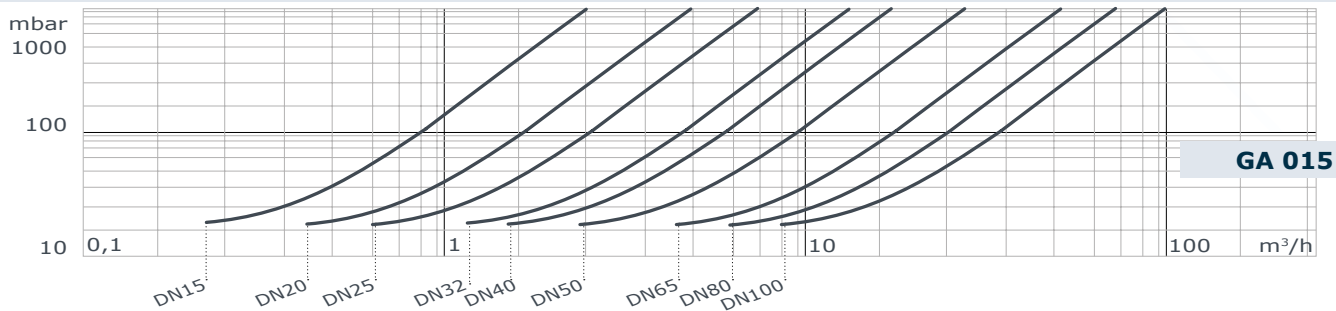
GB 023									
DN	15	20	25	32	40	50	65	80	100
A	15	20	25	32	38	47	63	79	96
B1	44	54	64	75	85	96	116	133	154
B2	50	60	70	80	90	107	130	140	162
C	30	38	40	56	65	78	95	100	125
L	16	19	22	28	32	40	46	50	60
kg	0.11	0.16	0.24	0.32	0.4	1	1.4	1.7	2.2

GA 015

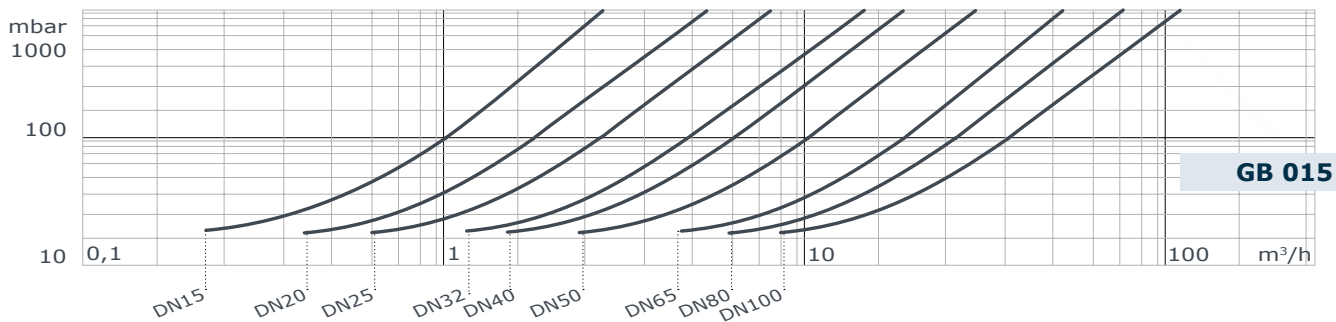
GB 015

GB 023

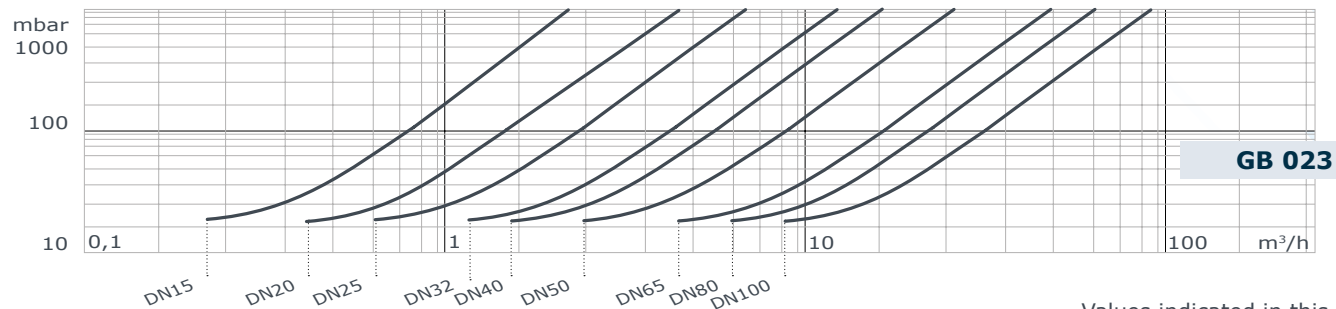
Head losses (H₂O - 20°C - horizontal flow, standard spring)



GA 015



GB 015



GB 023

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 (m³/h o l/s)

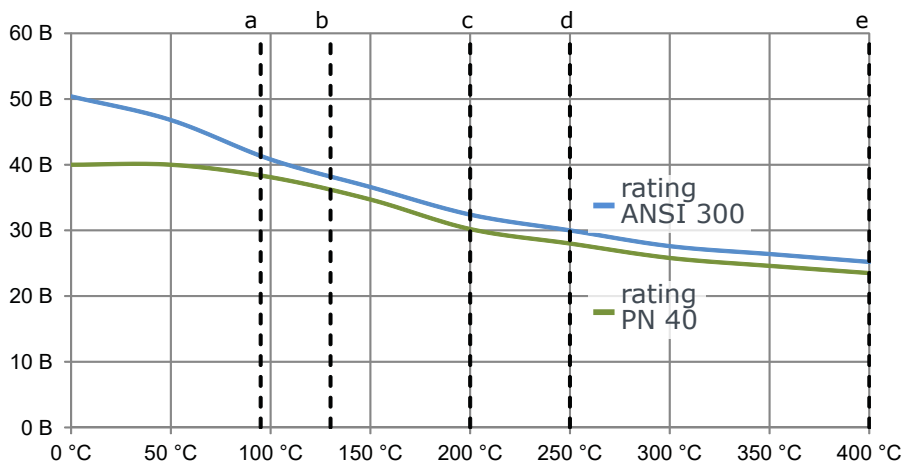
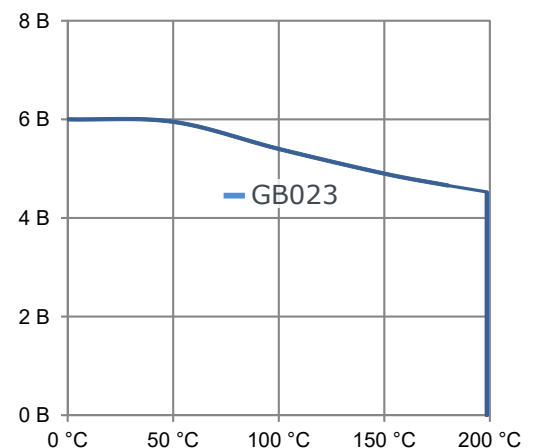
Q fluid flow (m³/h o l/s)

d fluid specific gravity (Kg/m³)

Temperature - pressure diagram

- a NBR seat Tmax = 100°C
- b EPDM seat Tmax = 130°C
- c FKM/PTFE seat Tmax = 200°C

- d Metallic seat Tmax = 250°C with EN 1.4401 (A316) spring
- e Metallic seat Tmax = 400°C with HASTELLOY C276 spring



GN 011 - GN 015 - GN 091 - GN 095
DN 15 - 100 • 1/2" - 4"

GT 011 - GT 015 - GT 091 - GT 095
DN 15 - 100 • 1/2" - 4"

Features and Advantages

Little dimensions and low weights.

Face to face acc. to **DIN EN 558 Series 52 (DIN 3202 K5)**. Opening pressure from 20 to 500 mBar.

Leakage:

according to EN 12266-1 Rate A with soft seat

according to EN 12266-1 Rate E with metal seat / PTFE

Faces final quality: AARH 250/500. Low head losses.

Usable also as vacuum breaker, overpressure and bottom valve.

GN011 - GN015 - GN091 - GN095 P max: **52 Bar**

Flange:

GN011 GN015 GN095 DN 15÷100
GN091 DN 15÷80

PN 10÷40, A150÷300
PN 10÷40, A150÷300

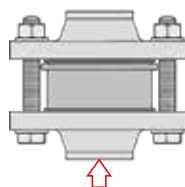
Flange:

GT011 GT015 GT095 DN 15÷100
GT091 DN 15÷80

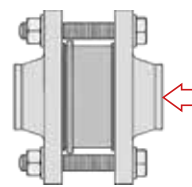
PN 63÷160, A600÷900
PN 63÷160, A600÷900

This type of valve cannot be used with spirometallic packing.

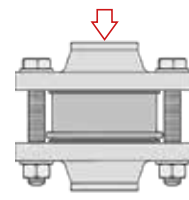
To be installed in any position



Upwards flow



Horizontal flow



Downwards flow

GT011 - GT015 - GT091 - GT095 P max: **160 Bar**

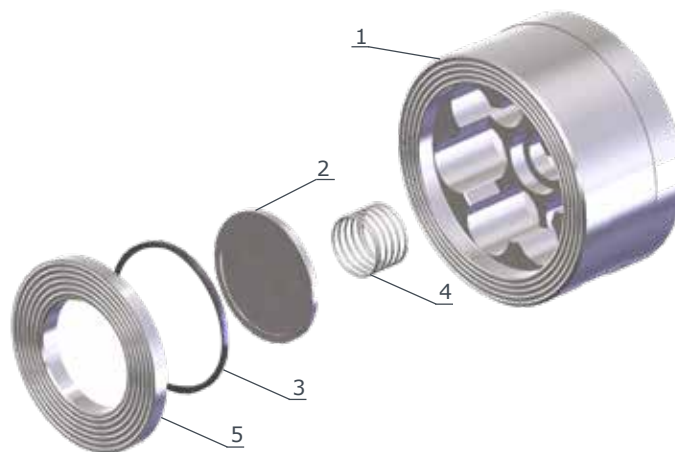
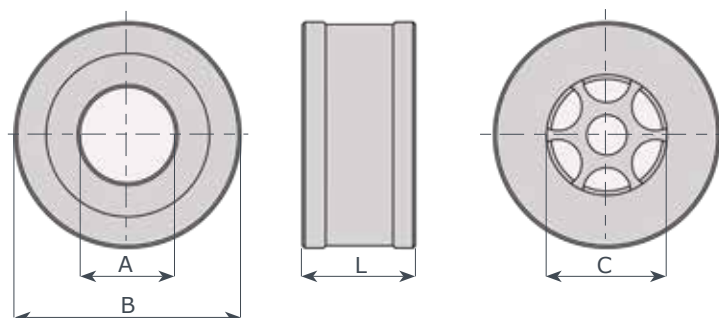
			GN 011 - GT 011	GN 015 - GT 015	GN 091 - GT 091	GN 095 - GT 095
item	q.ty	part	material	material	material	material
1	1	body	• zinc plated steel ASTM 105	• EN 1.4401 (A316)	• Hastelloy UNS N10276 (SB574)	• Super Duplex EN 1.4501 (UNS S32760)
2	1	disc	• EN 1.4404 (A316L)	• EN 1.4404 (A316L)	• Hastelloy UNS N10276 (SB574)	• Super Duplex EN 1.4501 (UNS S32760)
3	1	O Ring	• NBR • EPDM • FKM • PTFE	• NBR • EPDM • FKM • PTFE	• NBR • EPDM • FKM • PTFE	• NBR • EPDM • FKM • PTFE
4	1	spring - standard on request	• EN 1.4401 (A316)	• EN 1.4401 (A316) • Hastelloy C276	• Hastelloy C276	• Hastelloy C276
5	1	seat	• EN 1.4401 (A316)	• EN 1.4401 (A316)	• Hastelloy UNS N10276 (SB574)	• Super Duplex EN 1.4501 (UNS S32760)

GN Series									
DN	15	20	25	32	40	50	65	80	100
A	15	20	24	31	38	47	62	77	96
B	46	56	66	75	85	107	125	138	165
C	21	25	30	40	48	60	88	90	110
L	25	31.5	35.5	40	45	56	63	71	80
Kg	0.3	0.6	1	1.3	1.8	2.5	4	5.9	8

GT Series									
DN	15	20	25	32	40	50	65	80	100
A	15	20	24	30	38	47	62	77	96
PN63/160	49	64	71	86	94	109	130	145	175
B A600	49	64	71	86	94	109	130	145	R*
A900	49	64	71	86	94	R*	R*	R*	R*
C	21	25	30	40	48	60	85	90	110
L	25	31.5	35.5	40	45	56	63	71	80
Kg	0.3	0.6	1	1.3	1.8	2.5	4	5.9	8

R* on request

Certifications

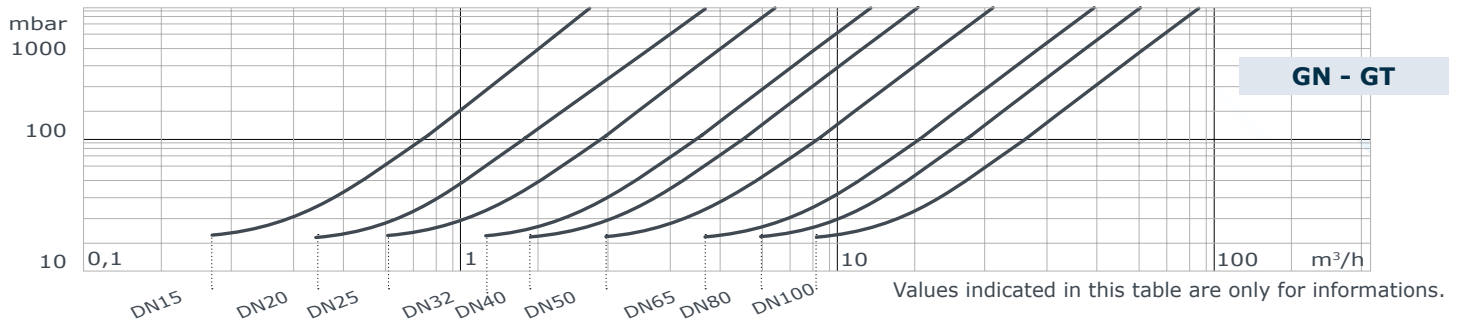


minimum opening pressure with standard springs

flow	DN	15	20	25	32	40	50	65	80	100
△	mBar	25	25	v	27	29	29	31	32	33
▷	mBar	23	23	23	24	25	25	26	26	27
▽	mBar	21	21	21	21	21	21	21	21	21
△ without spring	mBar	2	2	2	3	4	4	5	5	6

GN 011 - GN 015 GT 011 - GT 015 GN 091 - GT 091 GN 095 - GT 095

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



Formula for calculation of equivalent flow rate to H₂O

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

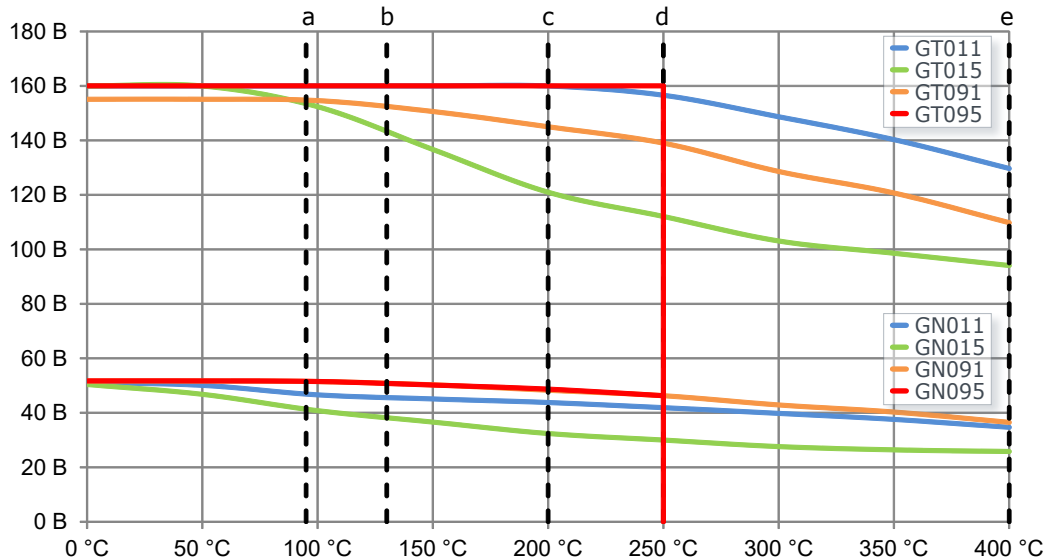
For different liquid, gas or steam head losses are determined by equivalent water flow rate, as follows:

Q_e equivalent water flow (m^3/h o l/s)

Q fluid flow (m^3/h o l/s)

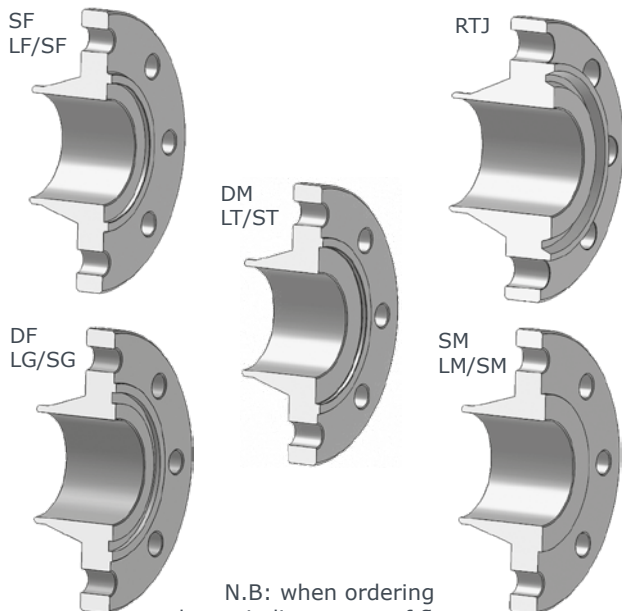
d fluid specific gravity (Kg/m^3)

Temperature - pressure diagram



- a NBR seat $T_{max} = 100^\circ C$
- b EPDM seat $T_{max} = 130^\circ C$
- c FKM/PTFE seat $T_{max} = 200^\circ C$
- d Metallic seat $T_{max} = 250^\circ C$ with EN 1.4401 (A316) spring or GN95-GT95 version
- e Metallic seat $T_{max} = 400^\circ C$ without spring or HASTELLOY C276 spring

GN and GT valves can be inserted between following flanges:

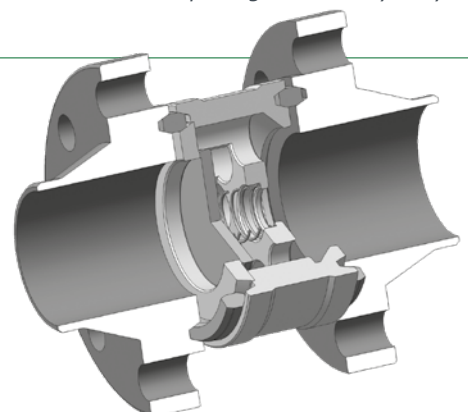


N.B: when ordering always indicate type of flange.

special spring table									
DN	15	20	25	32	40	50	65	80	100
50 mBar	Y	Y	Y	Y	Y	Y	Y	Y	Y
100 mBar	Y	Y	Y	Y	Y	Y	Y	Y	Y
200 mBar	Y	Y	Y	Y	Y	Y	Y	Y	Y
300 mBar	Y	Y	Y	Y	Y	Y	Y	Y	Y
500 mBar	Y	Y	Y	Y	Y	Y	N	N	N

Y = available / N = not available
Opening values may vary $\pm 10\%$

Application of GT valves with ANSI RTJ flanges:



GH 011 - GH 015 DN 125- 200 • 5" - 8"

Features and Advantages

Little dimensions and low weights.

Face to face acc. to **DIN EN 558 Series 49 (DIN 3202 K4)**.

Usable also as vacuum breaker, overpressure and bottom valve.

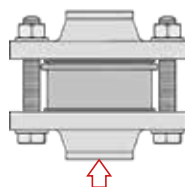
Leakage:

according to EN 12266-1 Rate A with soft seat,

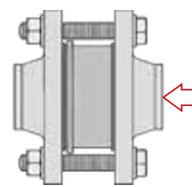
according to EN 12266-1 Rate E with metal seat/PTFE.

Low head losses.

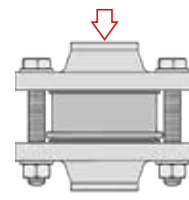
To be installed in any position



Upwards flow



Horizontal flow



Downwards flow

GH 011 - GH 015

DN 125÷200

P max: 25 Bar

Flange:

DN 125÷200

PN 10÷25, A150

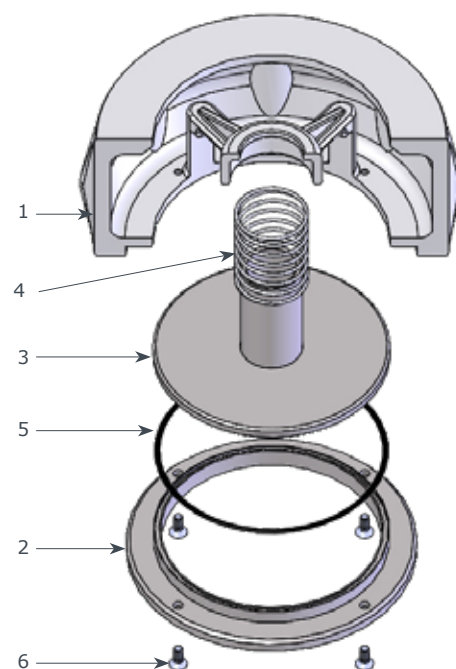
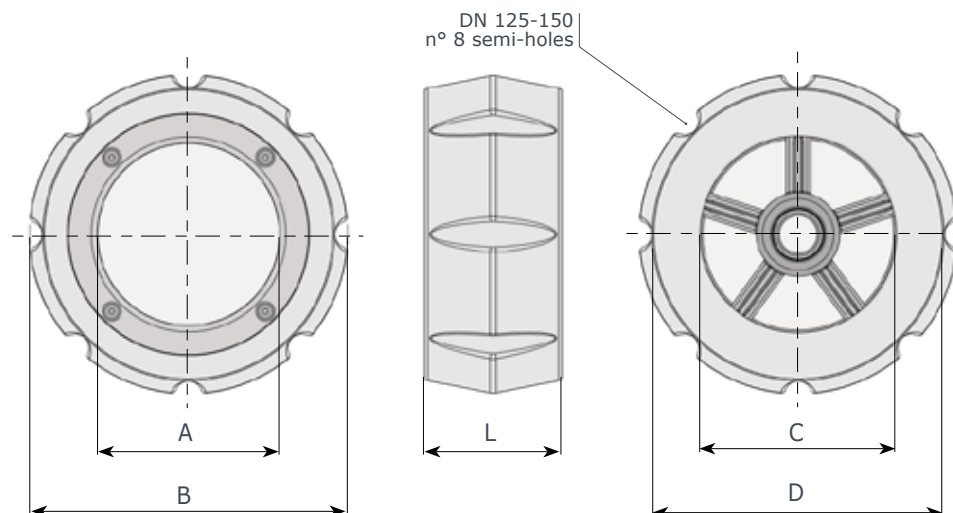
Faces final quality: AARH 250/500

This type of valve cannot be used with spirometallic packing.

Certifications:



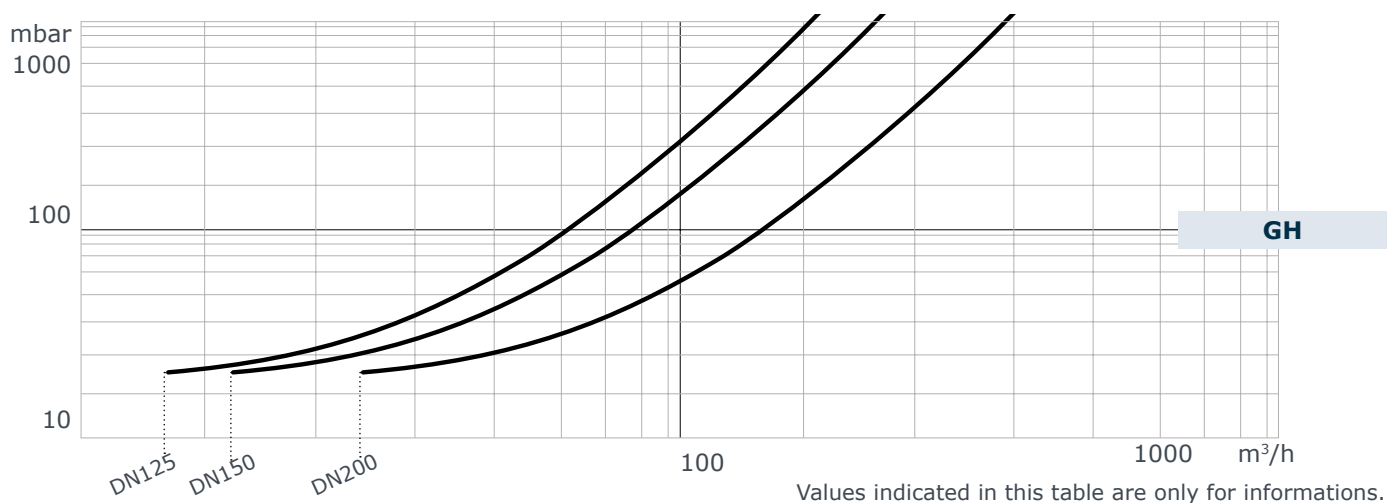
item	q.ty	part	GH 011 material	GH 015 material
1	1	body	• ASTM A216 WCB	• EN 1.4408 (A351 CF8M)
2	1	seat	• EN 1.4404 (A316L)	• EN 1.4404 (A316L)
3	1	disc	• EN 1.4404 (A316L)	• EN 1.4404 (A316L)
4	1	spring- standard on request	• EN 1.4401 (A316)	• EN 1.4401 (A316) • Hastelloy C276
5	1	O-Ring	• NBR • EPDM • FKM • PTFE	• NBR • EPDM • FKM • PTFE
6	4	screw	• A4 (A316)	• A4 (A316)



DN	125	150	200
A	120	140	183
B	210	242	273
C	125	150	200
D	192	220	-
L	90	106	140
Kg	8.2	12.5	18.6

GH 011 - GH 015

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



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 (m³/h o l/s)

Q fluid flow (m³/h o l/s)

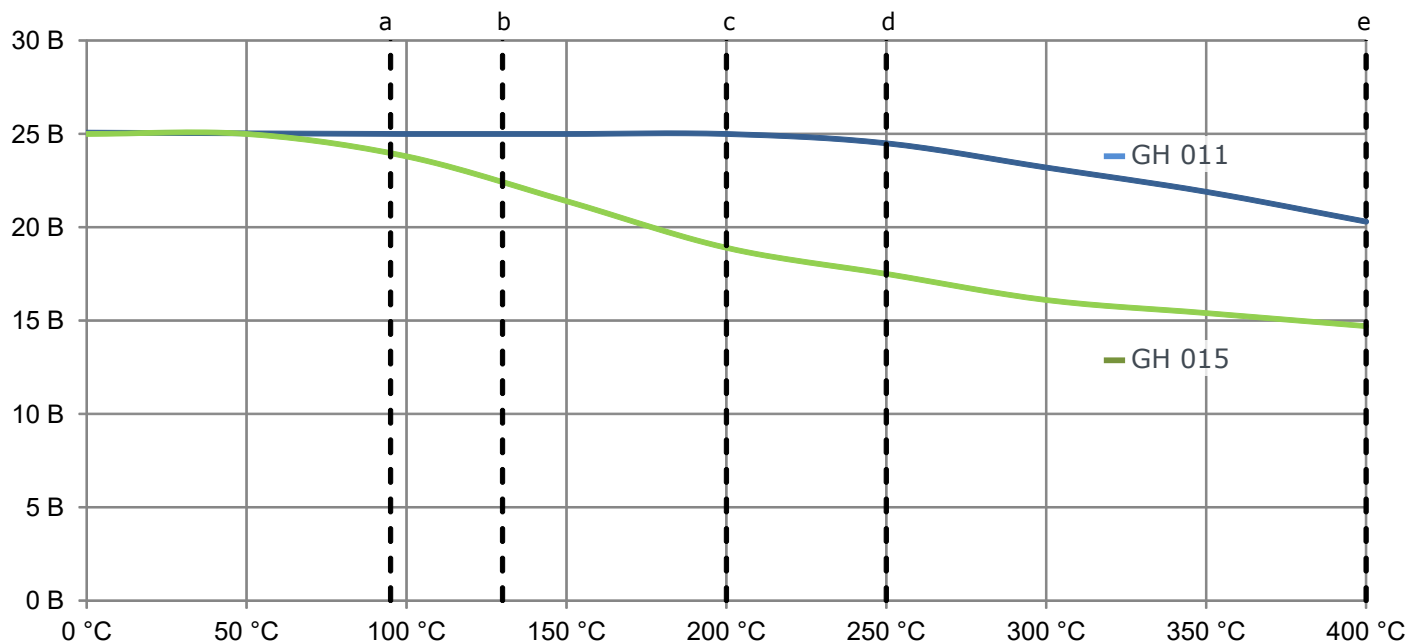
d fluid specific gravity (Kg/m³)

Temperature - pressure diagram

- a NBR seat T_{max} = 100°C
- b EPDM seat T_{max} = 130°C
- c FKM/PTFE seat T_{max} = 200°C

- d Metallic seat with EN 1.4401 (A316) spring T_{max} = 250°C

- e Metallic seat with HASTELLOY C276 spring T_{max} = 400°C



Minimum opening pressure with standard springs

flow	DN	125	150	200	flow	DN	125	150	200
△	mBar	34	36	36	▽	mBar	17	18	18
▷	mBar	22	23	27	△ without spring	mBar	8	9	10

GS 015 - GS 095 **DN 40 - 600 • 1^{1/2}" - 24"**

Features and Advantages

Little dimensions and low weights, low head losses.

Leakage:

- according to EN 12266-1 Rate A with soft seat,
- according to EN 12266-1 Rate E with metal seat / PTFE.

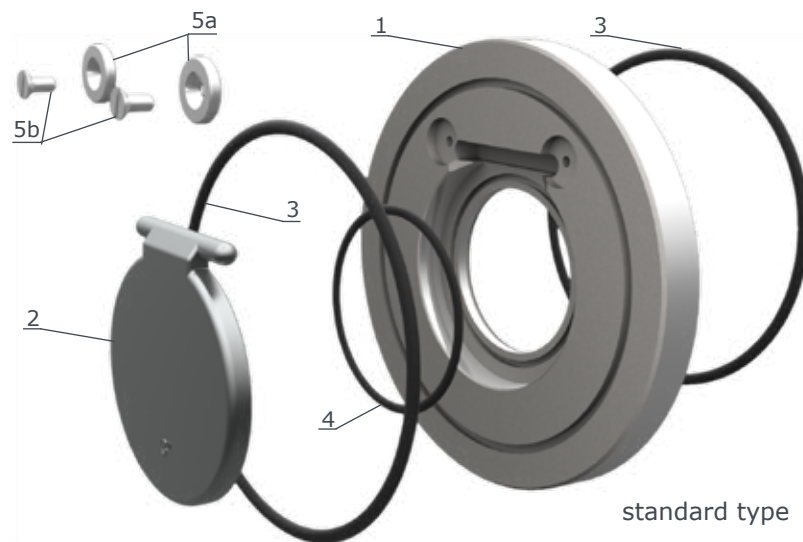
Face to Face according to DIN EN 558 Series 97
(Series 96 only for DN125/300 ANSI 300)

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

Certifications:

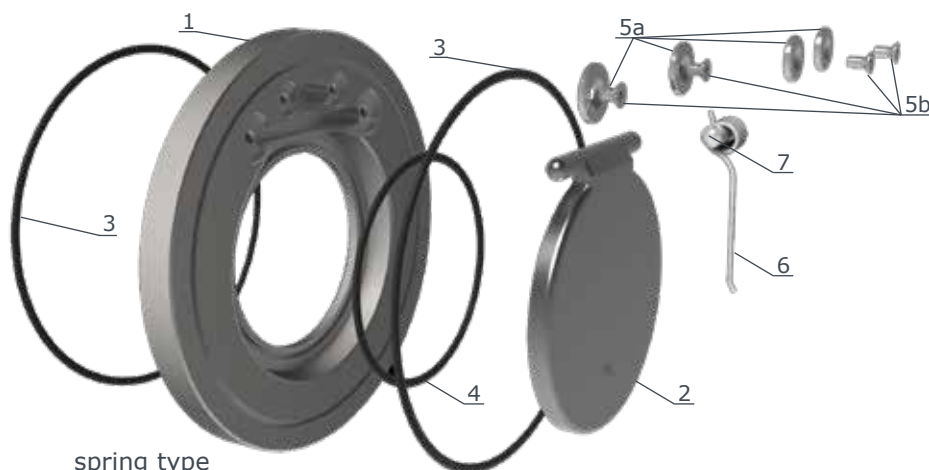


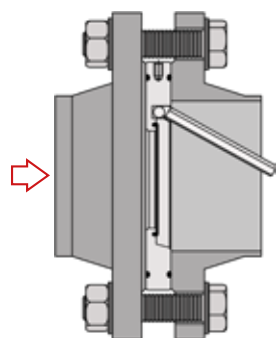
GS 015 - GS 095

Flange:

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

pos.	q.ty	part	GS 015 material	GS 095 material
1	1	body	• EN 1.4401 (A316)	• Super Duplex EN 1.4501 (UNS S32760)
2	1	clapet	• DN040-200: EN 1.4408 (A351 CF8M) • DN250-600: EN 1.4404 (A316L)	• Super Duplex EN 1.4501 (UNS S32760)
3-4	1	O.ring	• NBR (BUNA) • EPDM • FKM (VITON) • PTFE	• NBR (BUNA) • EPDM • FKM (VITON) • PTFE
5a	2+2	washer	• EN 1.4401 (A316)	• Super Duplex EN 1.4501 (UNS S32760)
5b	2+2	screw	• A4 (A316)	• Super Duplex EN 1.4501 (UNS S32760)
6	1	spring	• EN 1.4401 (A316)	• INCONEL 718
7	1	pin	• EN 1.4401 (A316)	• Super Duplex EN 1.4501 (UNS S32760)



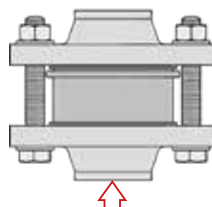


Easy mounting between flanges with any packing.

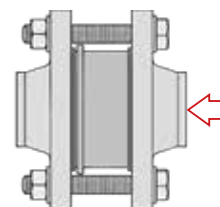
In case of horizontal throughput, the ring screw must be at the top.

Watch flow direction (see arrow on the plate)

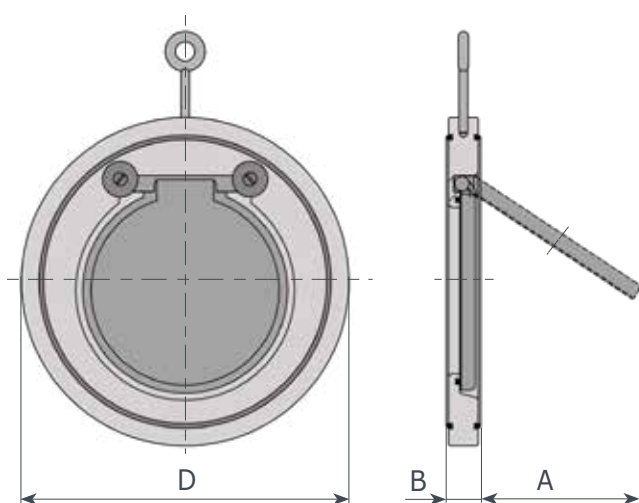
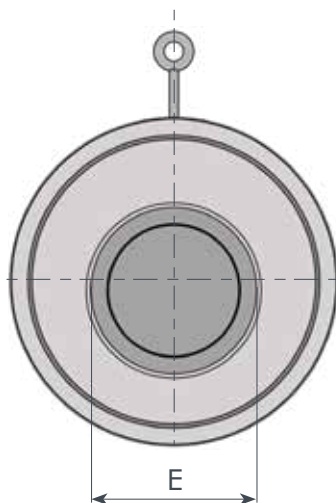
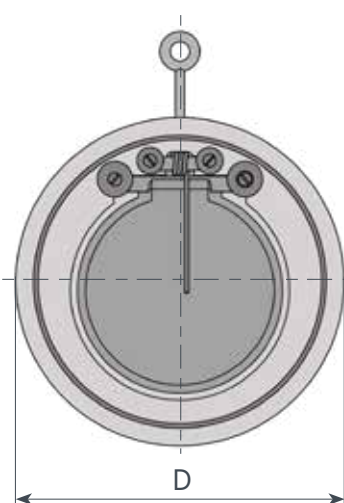
To be installed in two positions



Upwards flow



Horizontal flow

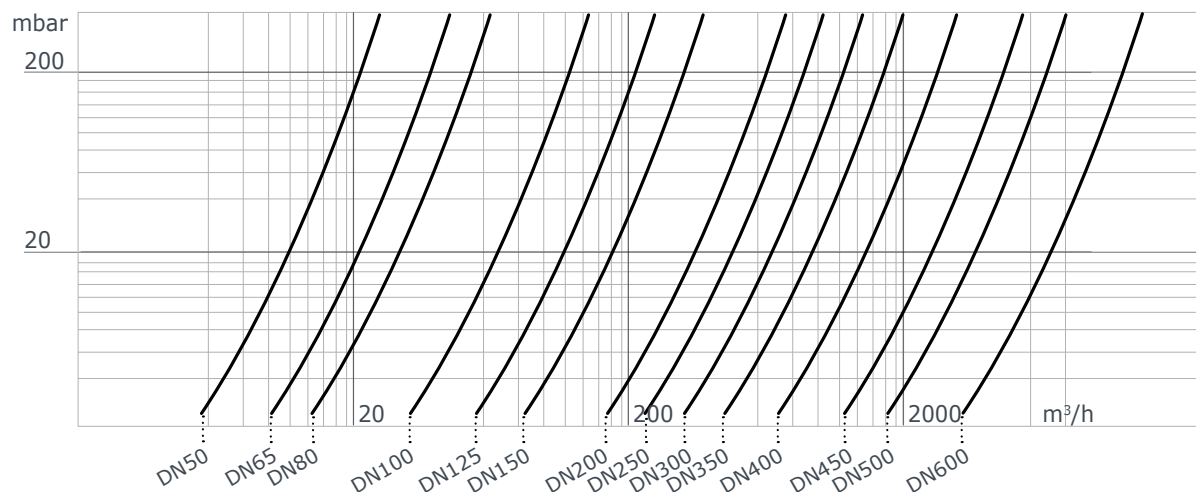


This data sheet describes the standard production.

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		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

Formula for calculation of equivalent flow rate to H₂O

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

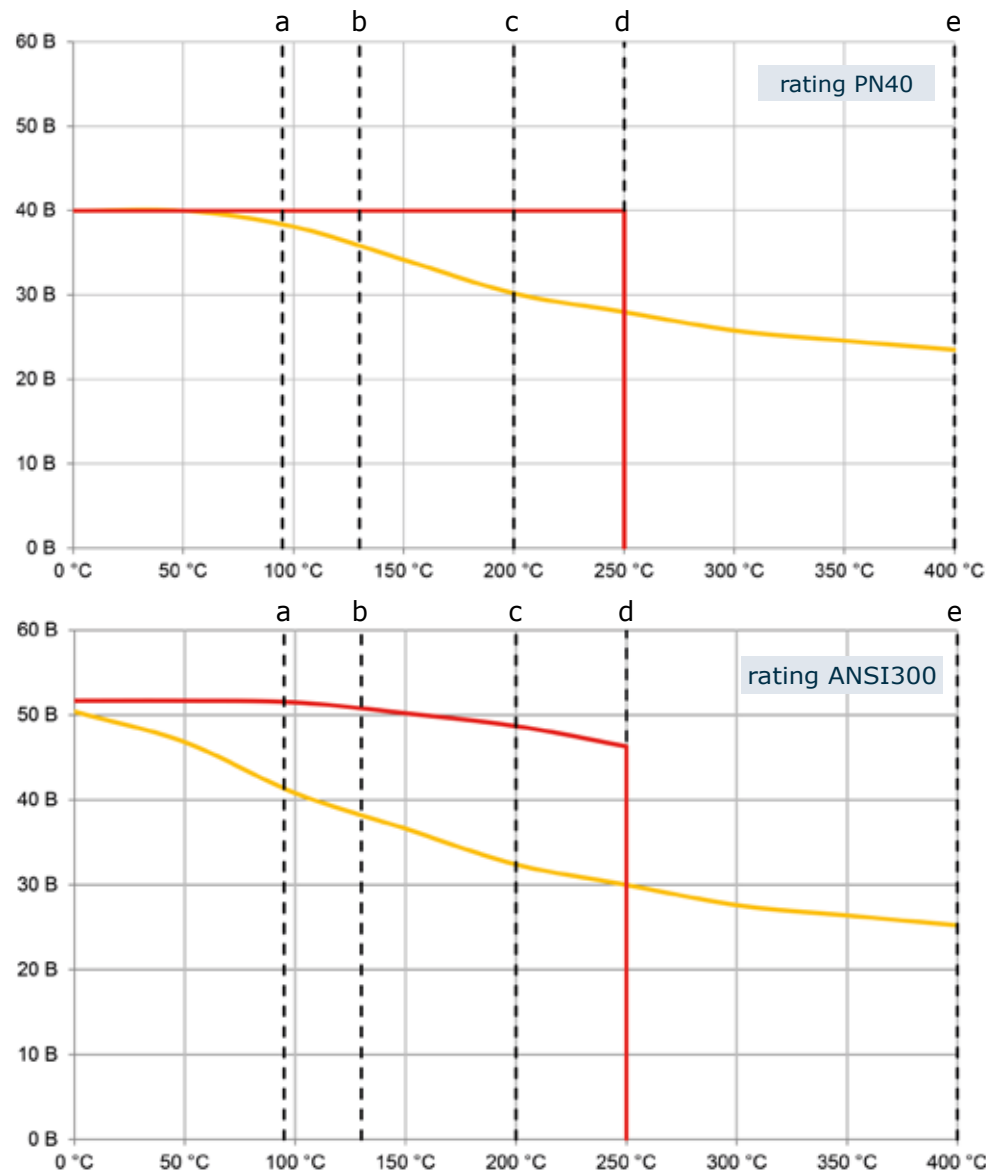
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- e Metallic seat with INCONEL C276 spring Tmax = 400°C





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Gibson Italia can now boast of more than 40 years of experience in manufacturing of industrial valves. In these 40 years we have designed and manufactured in our facilities in Italy butterfly valves and check valves, for the most different industrial applications.

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Cooling Water systems - Metallurgical processes
Powder transportation & storage
Oil field recovery - Liquid natural gas
Steam service - Steam Turbine
Saltwater Service - District heating & cooling
Hot Air & Smokes
Chemicals storage & transportation
Food & Beverage processes

DEPARTMENTS

- RESEARCH & DEVELOPMENT
- DESIGN
- CUSTOMIZATION
- PRODUCTION & LOGISTIC
- SALES & MARKETING

- QUALITY CONTROL
- CERTIFICATIONS
- PACKING AND SHIPPING
- AFTER SALES SUPPORT

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- before selling we can start from dimensioning the valves and actuators, make selection of materials for all parts upon knowing the specification, prepare all types of drawings etc.
- after selling we make final documentation, provide installation supervision, undertake commissioning etc.

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*not just valves,
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