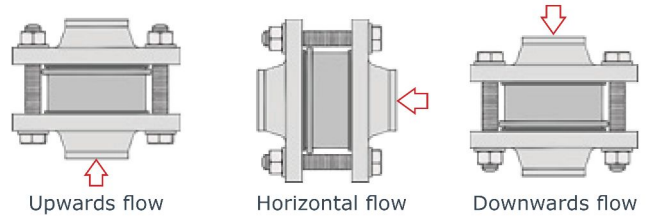


## Features and Advantages

Little dimensions and low weights  
 Face to face acc.to DIN EN 558-1 Series 49 (DIN 3202 K4).  
 Opening pressure from 20 to 500 mBar.  
 Usable also as vacuum breaker, overpressure and bottom valve.  
 No leakage with soft seat and acc.to DIN 3230 BN3 with metal seat.  
 Low head losses.

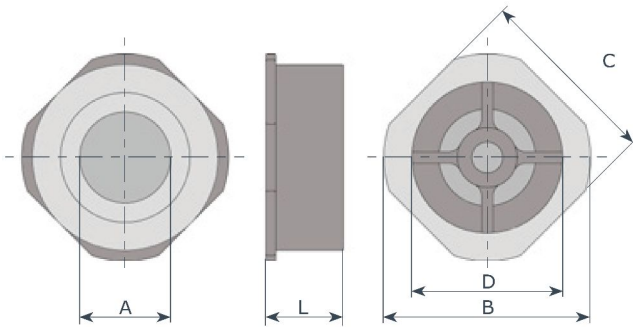
To be installed in any position



## GA 015 DN15 - 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**

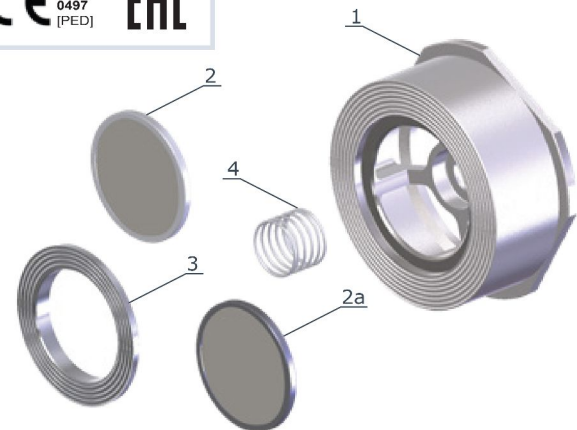


DN	15	20	25	32	40	50	65	80	100
<b>A</b>	15	20	24	31	38	47	62	77	95
<b>B</b>	53	63	73	84	94	107	131	140	162
<b>C</b>	45	55	65	74	84	98	118	130	162
<b>D</b>	27	33	38	54	64	78	96	105	130
<b>L</b>	16	19	22	28	32	40	46	50	60
<b>Kg</b>	<b>0.11</b>	<b>0.14</b>	<b>0.26</b>	<b>0.4</b>	<b>0.6</b>	<b>0.95</b>	<b>1.3</b>	<b>1.9</b>	<b>3.4</b>

This type of valve cannot be used with spirometallic packing.

minimum opening pressure with standard springs										
flusso	DN	15	20	25	32	40	50	65	80	100
△	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
△ without spring	mBar	2	2	2	3	4	4	5	5	6

### Certifications



item	q.ty	part	material
1	1	body	• A351 - CF8M (AISI 316)
2	1	disc-standard	• A240 (AISI 316L)
2A	1	on request	• A240 (AISI 316L) + NBR • A240 (AISI 316L) + EPDM • A240 (AISI 316L) + FKM
3	1	seat disc on request	• A182 (AISI 316) • A182 (AISI 316) + PTFE
4	1	spring-standard on request	• AISI 316 • Hastelloy C4

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 DN15 - 100 [1/2" - 4"]**

**Features**

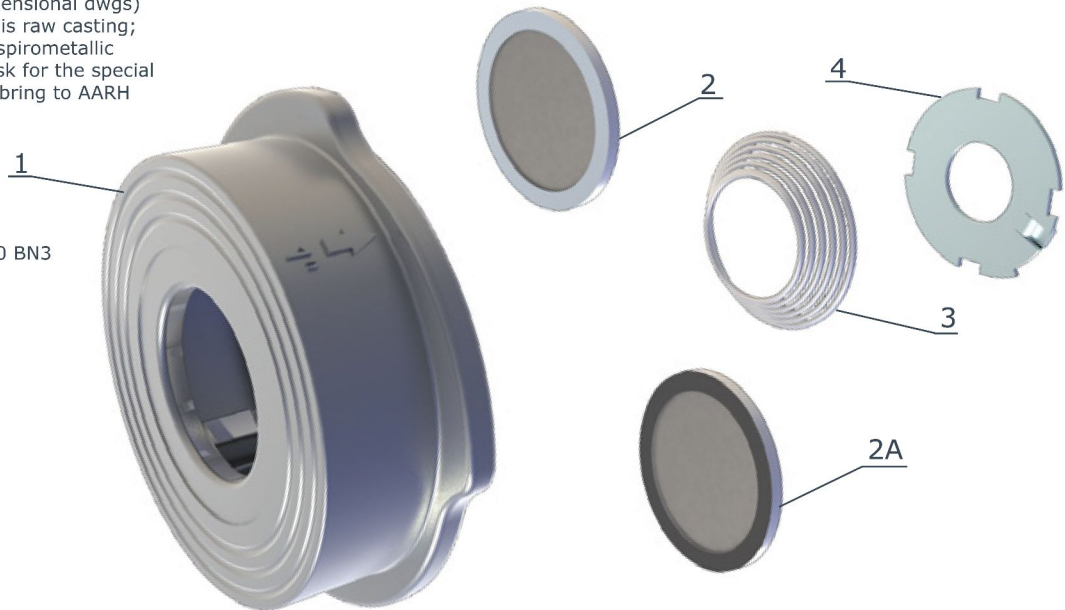
DN 15/100: P max: 52 Bar

Flange:

DN 15÷80 PN 6÷40, A150÷300  
 DN 100 PN 10÷40, A150÷300

Final quality of face A (reference can be found in dimensional dwgs) for standard valves is raw casting; in case of use with spirometallic packing (API601) ask for the special machining that will bring to AARH 250/500 quality.

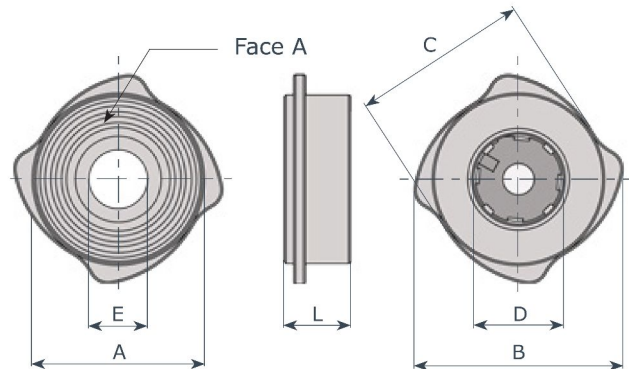
No leakage with soft seat and acc.to DIN 3230 BN3 with metal seat.



**Certifications**



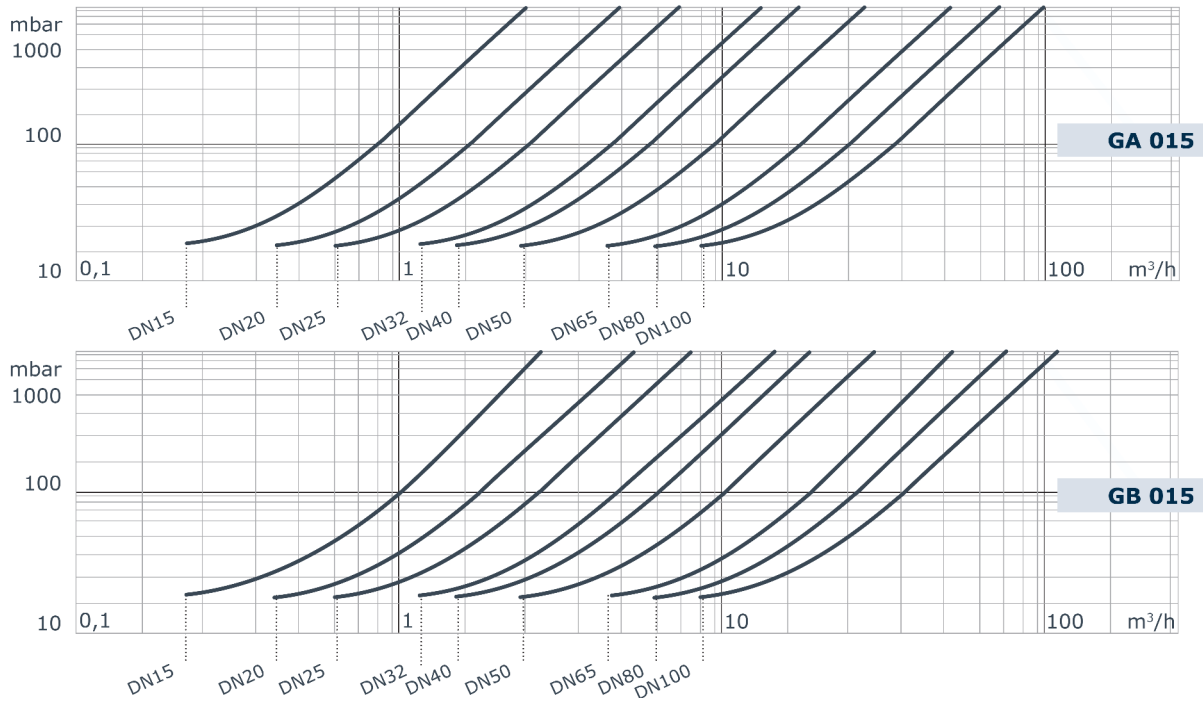
GB 015			
iem	q.ty	part	material
1	1	body	• A351 - CF8M (AISI 316)
2	1	disc -standard	• A240 (AISI 316L)
2A	1	on request	• A240 (AISI 316L) + NBR • A240 (AISI 316L) + EPDM • A240 (AISI 316L) + FKM
3	1	spring standard	• AISI 316
4	1	stop ring	• A240 (AISI 316L)



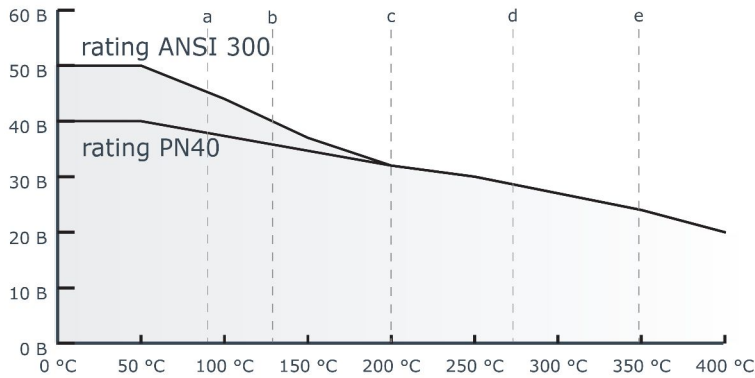
minimum opening pressure with standard springs										
flow	DN	15	20	25	32	40	50	65	80	100
△	mBar	25	25	25	27	28	30	30	25	21
▷	mBar	23	23	23	25	23	24	24	19	15
▽	mBar	21	21	21	22	18	18	18	13	9
△ without spring	mBar	nd	nd	nd	nd	nd	nd	nd	nd	nd

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

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



**Temperature - pressure diagram**



- a NBR TMAX = 95°C
- b EPDM TMAX = 130°C
- c FKM TMAX = 200°C
- PTFE
- d spring AISI 316 TMAX = 250°C
- e spring HASTELLOY C4 TMAX = 350°C

**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<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