Zawory zwrotne płytkowe/ Disc check valves seria GB + PTFE

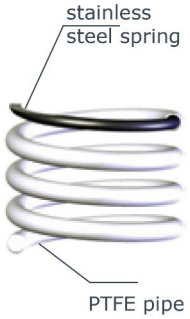
GB + ptfe DN15 - 100 [1/2" - 4"]

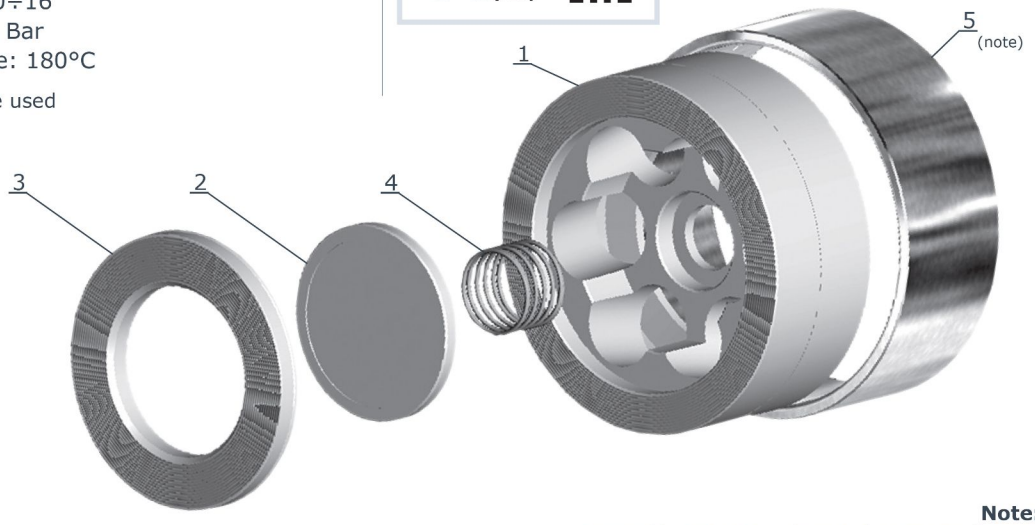
Features
DN 15÷100 PN 10÷16
Max working pressure: 6 Bar
Max working temperature: 180°C

This type of valve cannot be used with spirometallic packing.

Certifications

CE 0497 [PED] EAC





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

Note:
assembly GB 023 with PN6 / ANSI150 flanges is possible without stainless steel jacket.

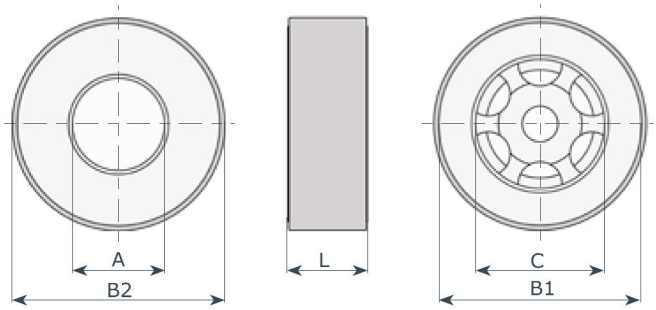
GB 023			
iem	q.ty	part	material
1	1	body	• PTFE
2	1	disc	• PTFE
3	1	seat	• PTFE
4	1	spring *on request*	• Hastelloy C4 • *AISI 316 + PTFE* • *AISI 316 + Cheniflon*
5	1	jacket	• AISI 304

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

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 lubrificated threads.

special spring table (olny 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

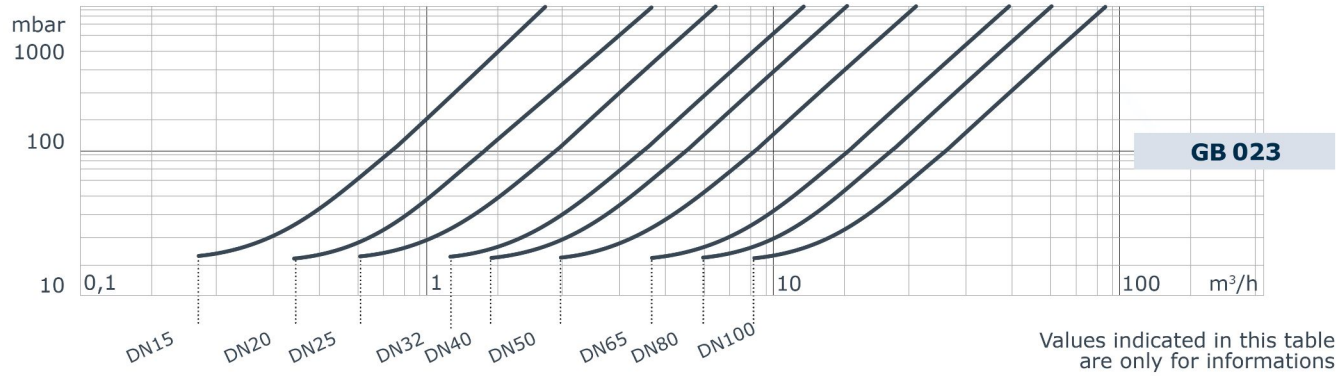
Y = available / N = not available
Opening values may vary ±10%



minimum opening pressure with standard springs										
flow	DN	15	20	25	32	40	50	65	80	100
△	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
△ without spring	mBar	1	1	1.5	2	2.5	2.5	3	3	4

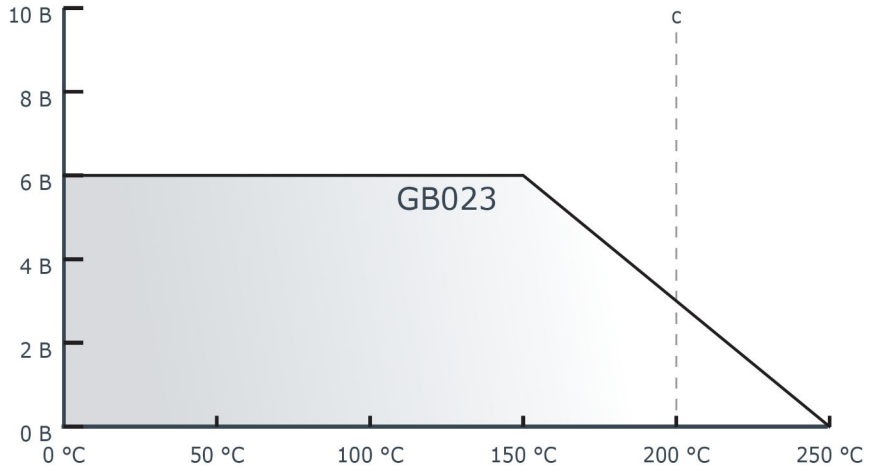
GB 023									
DN	15	20	25	32	40	50	65	80	100
A	15	20	25	32	38	47	63	79	96
B1	44	54	64	75	85	96	116	133	154
B2	50	60	70	80	90	107	130	140	62
C	30	38	40	56	65	78	95	100	120
L	16	19	22	28	32	40	46	50	60
kg	**0.11**	**0.16**	**0.24**	**0.32**	**0.4**	**1**	**1.4**	**1.7**	**2.2**

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



Values indicated in this table are only for informations

Temperature - pressure diagram



PTFE TMAX = 200°C

Formula for calculation of equivalent flow rate to H2O

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

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

Qe	equivalent water flow *(m³/h o l/s)*	Q	fluid flow *(m³/h o l/s)*	d	fluid specific gravity *(Kg/m³)*

INDUSTRIAL VALVE SOLUTION
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NOTES:
The valves presented in this catalog are manufactured in the EU by Ghibson Italia srl. according to our specifications