


N5

Description

The clapper check valves with N5 rubber-metal seal are single-direction devices which prevent the return of pressurised fluid.

They are suitable for use in domestic water systems, raised water systems, fire protection, central heating and boiler room systems, solar plants, and water systems for industrial and agricultural applications in general.

The internal hydraulic seal is ensured by the forces exercised by the mass of a tilting shutter and by the pressure of the liquid above a gasket which activates the seal, even when subject to minimal back pressure.

Due to the fact that these valves function via the gravitational force that acts on the tilting shutter (clapper or swing), there is no universal guideline as to where these should be positioned. The advantage of these valves is the low incidence of losses of pressure due to the rounded shape of the valve body and the large passage section which is obtained via the oscillation of the shutter; these elements also mean that they are extremely quiet.

Versions and product codes

Product code	Size
N5Y002	3/8"
N5Y003	1/2"
N5Y004	3/4"
N5Y005	1"
N5Y006	1 1/4"
N5Y007	1 1/2"
N5Y008	2"
N5Y009	2 1/2"
N5Y010	3"
N5Y011	4"

Technical data

- Compatible fluids: water for heating systems, domestic hot water, water containing glycol (max. 30 % glycol)
- Connections: female threaded ISO 228
- Temperature range: 5÷95 °C (110 °C for occasional peaks)
- Max. working pressure: 16 bar (from 3/8" to 3"); 10 bar (4")
- Opening pressure: 0,05 bar

Materials

- Valve body: brass UNI EN 12165 - CW617N (3/8"÷1")
brass UNI EN 1982 - CB753S (1 1/4"÷4")
- Cap: brass UNI EN 12165 CW617N
- O-ring and gasket: NBR
- Shutter: brass UNI EN 12165 CW617N

Losses of pressure

Size	Kv	Size	Kv
3/8"	2,9	1 1/2"	26,7
1/2"	6,5	2"	42,8
3/4"	10,5	2 1/2"	61,4
1"	17,8	3"	103
1 1/4"	19,8	4"	336

Installation

The clapper check valves can be installed horizontally or vertically, respecting the flow direction indicated by the arrow stamped on the valve body. In the horizontal position, the valve must be installed with the inspection cap facing upwards; otherwise the valve cannot function. In the vertical position, the valve only operates if the flow direction is upwards. The valves are fitted onto the piping via threaded attachments, according to normal hydraulic practice.



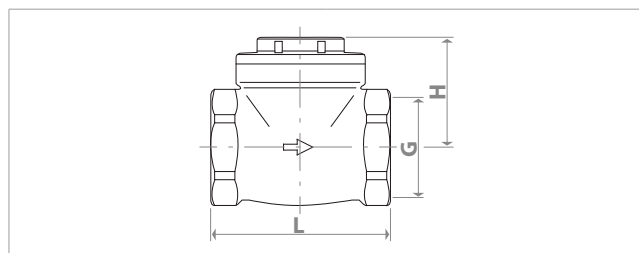
Maintenance

Check the valve periodically, in accordance with the frequency of use and the working conditions. Where there are losses linked to issues with the gasket seal, these may be caused by deposits or foreign bodies. In such cases, the inspection cap positioned on the upper part of the valve can be removed, so that the state of the shutter can be checked and the gasket can be cleaned, removing impurities with compressed air or mechanically.

This operation can be carried out having previously emptied the section of the system affected.



Dimensions



Product code	Size G	H [mm]	L [mm]
N5Y002	3/8"	46	47
N5Y003	1/2"	46	47
N5Y004	3/4"	51	53
N5Y005	1"	61	63
N5Y006	1 1/4"	73	74
N5Y007	1 1/2"	85	87
N5Y008	2"	94	97
N5Y009	2 1/2"	107	118
N5Y010	3"	130	135
N5Y011	4"	159	164

Product specifications

N5

Clapet check valve, with rubber seal. Compatible with water for heating systems, domestic hot water, water containing glycol (max. 30 % glycol). Female threaded connections ISO 228. Valve body in brass UNI EN 12165 - CW617N (3/8"÷1") brass UNI EN 1982 CB753S (1 1/4"÷4"). Cap in brass UNI EN 12165 CW617N. O-ring and gasket in NBR. Shutter in brass UNI EN 12165 CW617N. Temperature range: 5÷95 °C (110 °C for occasional peaks). Max. working pressure: 16 bar (from 3/8" to 3"); 10 bar (4"). Opening pressure: 0,05 bar.

Additional information

For additional information please check the website: www.giacomini.com or contact the technical service: ☎ +39 0322 923372 📠 +39 0322 923255 ✉ consulenza.prodotti@giacomini.com
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