

Clapet check valve

Art. 5078



100% MADE IN ITALY 

Function Pintossi C check valves can be used for many applications such as sanitary water systems, heating systems, for industrial and agricultural applications. The main function is to avoid the return of the fluid under pressure through the action of **an internal shutter completely made of brass.**

The hydraulic seal is carried by means of the fluid force fluid exerted on a swing door. **Minimal pressure losses** are guaranteed by the particular geometry of the body and by the high passage section.

The valve is suitable for use with drinking water and complies with the regulations of D.M. 174/2004.

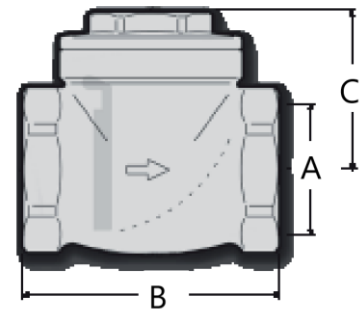
Yellow finishing.

Technical specifications	Fluids:	Water or glycol solutions
	Max. glycole:	30%
	Max. working temp.:	100°C
	Opening pressure:	0,05 bar
	Max. working pressure:	16 bar (1/2" - 3") 10 bar (4")

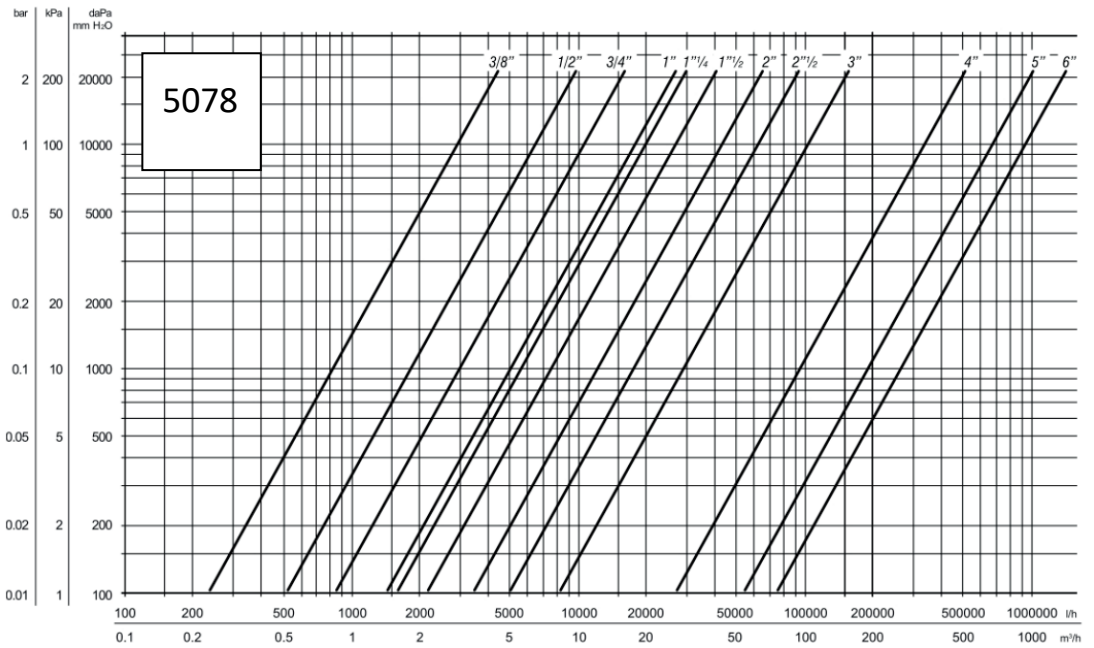
Materials	Body:	Brass CW617N (1/2" - 1")
	Shutter:	Brass CB753S (1 1/4" - 4")
	Knocker:	Brass CW617N
	Gaskets:	NBR

Dimensions

A	B	C
1/2"	47	32
3/4"	54	35
1"	64	39
1 1/4"	75	47
1 1/2"	83	51
2"	98	59
2 1/2"	116	67
3"	135	77
4"	164	92



Head loss diagram



MEASURE	Kv [m ³ /h]
1/2"	6,5
3/4"	10,5
1"	17,8
1 1/4"	19,8
1 1/2"	26,7
2"	42,8
2 1/2"	61,4
3"	103
4"	336

Installation

Check valves are one-way devices that can be installed in any position, respecting the flow direction marked by an arrow on the valve body.

When installed horizontally, the valves should be positioned with the inspection cap facing up.

If installed vertically, they can only be installed with the flow direction from bottom to top.

Their assembly must be carried out in accordance with normal hydraulic practices, avoiding the excessive use of sealing materials such as hemp or PTFE in order to prevent a possible malfunctioning.

It is recommended to install a shut-off valve upstream and possibly a filter for impurities collection that could be collected in the metal-NBR internal sealing zone. For the same reason before the installation, it is recommended to carry out a cleaning of the system to remove burrs and dirt.

Maintenance

The valve should be checked periodically to make sure it is working properly.

In case of leakages at the seal zone due to foreign bodies, the valve must be removed to clean the area with compressed air or mechanically, having taken care to empty the previously affected part of the plant. Replace the valve if necessary.

Fluid characteristics

Reference standard for water treatments in heating systems is Norm UNI 8065:2019 which regulates the parameters that must be observed to avoid scale and corrosion phenomena.

In order to grant product warranty, the fluid characteristics must comply with the rules in force in the country of relevance or at least present features not less to the ones prescribed by the Norm UNI 8065:2019.

In particular, minimum standards necessary but not sufficient to control are the following:

Fluid aspect: Limpid

PH: Between 7 and 8

Iron (FE): < 0,5 mg/kg (< 0,1 mg/kg for steam)

Copper (CU): < 0,1 mg/kg (< 0,05 mg/kg for steam)

Antifreeze: Passivated Propylene Glycol

Conditioning: As indicated by the producer

In any case when using antifreeze and conditioning solutions, is required to control and verify the correct compatibility between these substances and the construction materials stated in Pintossi+C technical datasheet.