Water hammer absorber

Art. 9019

100% MADE IN ITALY

Function

Water hammer phenomenon occurs very often in closed plumbing system. The opening and closing operations of valves and taps or the circulation pumps stopping can cause this situation when the fluid is accelerated or decelerated.
Pintossi+C water hammer absorber is particular recommended to avoid noise and damages to the system components as a consequence of the propagation of over and under pressure through the pipes.
The overpressure of the water hammer phenomenon can cause the following situations:
- breakage of tubes, tanks and hoses;
- seals and connections weakening;
- Closing, mixing and regulating components damages
- Noise and vibrations

Techincal specifications

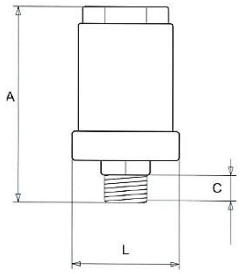
Fluids:	Water or glycol solutions
Max. glycole:	30%
Max. working temp.:	90°C
Max. working pressure:	10 bar
Max. water hammer pressure:	50 bar

Materials

Body:	Brass CW617N
Damping element:	High resistance polymer
Absorber spring	Stainless steel
Gasket:	Fiber

Dimensions

SIZE	L	A	C
1/2"	51	93	12



Installation

The water hammer absorber needs to be installed upstream of the component (like pressure reducers, mixing valves, etc.) that need to be protected from water hammer phenomenon.
It's recommended to install the absorber as close as possible to the component to be protected and at a maximum distance of 10mt.
It can be installed in every position and thanks to its compact dimensions is suitable to be used in small spaces.
The absorber is suitable to be used on pipe up to 1 ¼" size. If assembled on bigger pipe sizes is recommended to use two absorbers.

Maintainance

Thanks to its design and components, the water hammer absorber is maintenance free.

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:	Passiveted 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.