

water hammer arrester

mechanical type



WRAS
APPROVED
PRODUCT

altecnic

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Application

If the pressure in a system is high, the water when flowing has a greater momentum which when brought to a sudden halt, will create a shock effect causing pipes to shudder and vibrate.

This is normally caused by the rapid closure of lever operated taps or valves, solenoid valves or valves in dish washers and washing machines.

The Altecnic 525040 water hammer arrester is designed for a single outlet, such as a tap or washing machine, or a small group of services, such as a bathroom supplied via a manifold.

The vibration caused by water hammer is not only annoying but eventually can result in split or cracked pipe fittings, especially at joints.

The Altecnic water hammer arrester is maintenance free and can be installed in any orientation.

The arrester should be installed close to the tap or valve minimising the effect of the shock on the system.

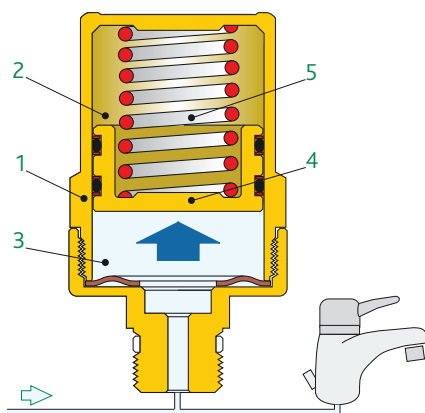
Operating Principle

The water hammer arrester consists of a cylinder (1) divided into 2 chambers (2) and (3) by a piston with two 'O' ring seals (4).

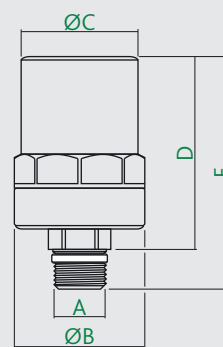
The closed chamber (2) acts as a damper due to the compressibility of the air trapped inside.

The open chamber (3) is connected directly to the system and is filled with water.

When a pressure surge occurs, the force from the spring and the compression of the air counteracts the thrust on the piston allowing a small change in volume which absorbs the excess pressure.



Dimensions



Prod Code	A	B	C	D	E	kg
525040	G½"B	52	46	74	89	0.5

Construction Details

Component	Material	Grade
Body	Brass	BS EN 12165 CW617N
Piston	POM Polymer	
Spring	Steel	
Seals	EPDM	

Technical Data

Medium:	water
Max. working pressure:	10 bar
Max. water temperature:	90°C
Max. water hammer pressure:	50 bar
Operating start pressure:	3 bar
WRAS approved products	

Product Code	Size	Connection	Type
525040	½"	male screwed	mechanical type

E & O.E

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