

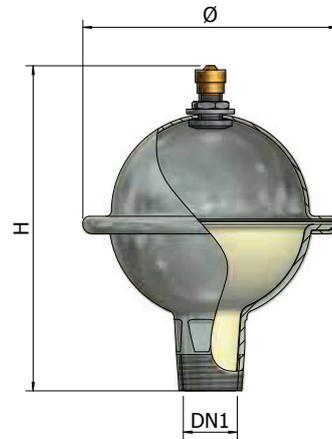


MICRON

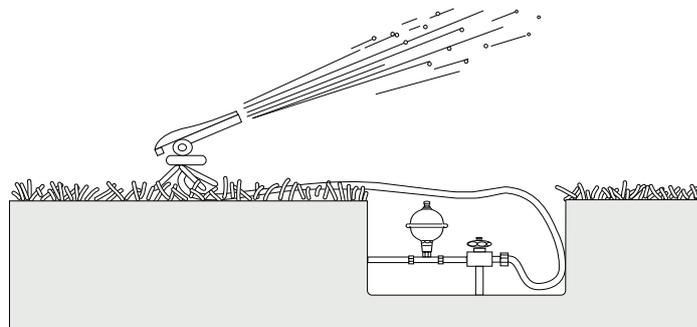
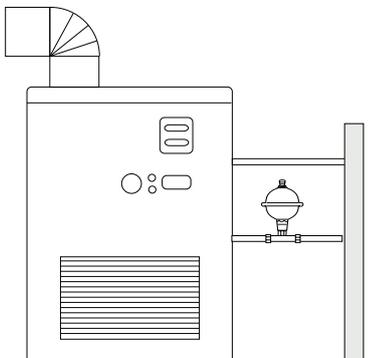
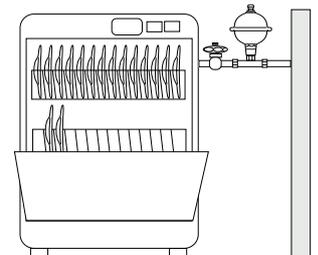
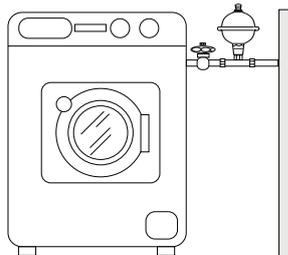
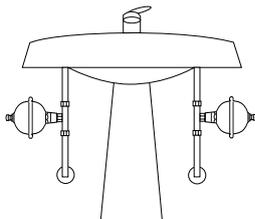
WATER HAMMER ARRESTOR MINI-TANK

(160ML)

MICRON



EXAMPLES OF INSTALLATION



Water hammer arrestor



For drinking water



For pressurisation systems

The Micron mini-tank is designed to absorb sudden overpressure caused by water hammer in pressurised hydraulic systems. The use of a MICRON mini-tank eliminates noise and vibrations caused by these phenomena, thus increasing the life of the system.

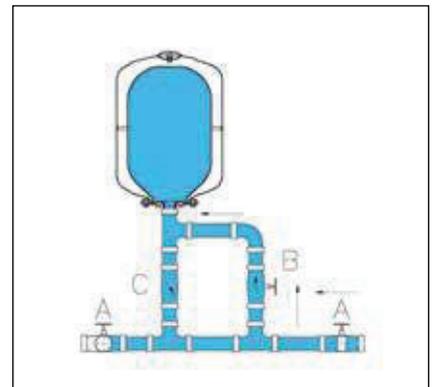
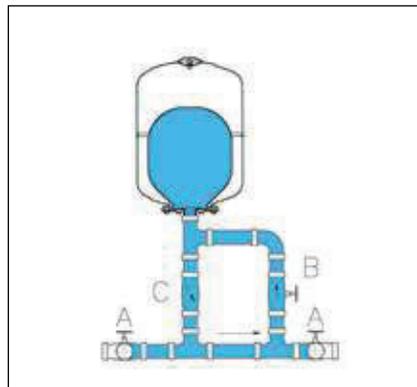
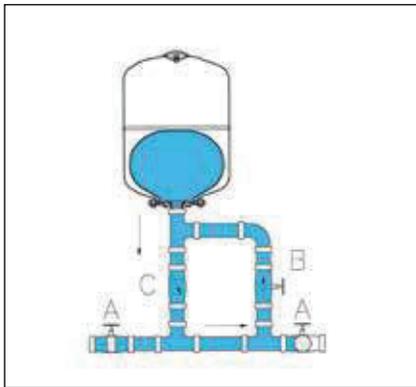
WARRANTY: 2 YEARS

MODEL	CODE	 Ppre	Pmax	 max	 mm	 mm	DN1	 mm	NOTES
		LITRES	bar	bar	max	mm	mm	mm	
MICRON	12A0000	0,16	3,5	10	+99°C	88	121	1/2"	270 x 270 x 180

WATER HAMMER ARRESTOR: TECHNICAL FEATURES

Water hammer (overpressure shock) is caused by the sudden closing of a valve or similar device in a hydraulic system. The sudden closure causes a sonic pressure wave to travel backward through the pipe system. As the pressure wave hits obstructions in the system, additional pressure waves are reflected back in the opposite direction. These pressure waves will cause loud noises within the system and can lead to physical damage and shorten system life if left unchecked. To overcome this problem the system must be equipped with a hydraulic shock absorber able to absorb the pressure wave through the use of an air cushion. The Micron hammer arrestor is the perfect device for this purpose.

Installation examples of pressure tanks used as shock hammer absorbers:



Constant pressure

The "A" valves are open and the water rate of flow inside the pipeline is constant. During this phase, the vessel gradually fills up until the pressure becomes identical to the system's.

Case No. 1

Whenever the "A" valve upstream suddenly shuts down, the water column inside the pipeline follows its course and, in order to avoid a pressure drop at the valve outlet, i.e. a narrowing of the pipeline, the "C" check valve opens to release part of the stored water.

Case No. 2

Whenever the "A" valve downstream suddenly shuts down, the water column inside the pipeline preceding the valve creates a pressure wave. This wave reverberates throughout the pipeline; in this case, water can only pass through the "B" narrowing valve, which cushions the water hammer, gradually filling up the vessel in the process.

