

BRONZE & STAINLESS-STEEL HAMMER PROTECTION TYPE AIT

FEATURES

The devices in the AIT range are designed to absorb water hammer generated by the sudden stopping or starting of pumps or by the sudden closing of fluid circuit valves. The damping is pneumatic and the chamber pressure can be modified. The AIT anti-water hammer is available in bronze and stainless steel, with threaded connections. The mounting position is indifferent. The factory inflation of the chamber is 2.5 bar.

AVAILABLE MODELS

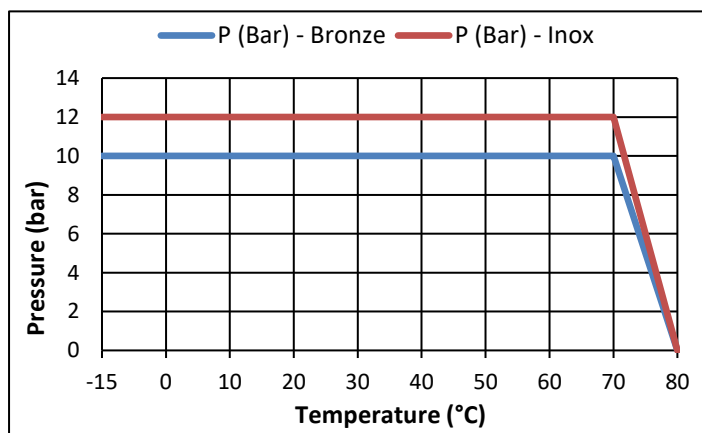
AIT bronze: 1/2" to 2" threaded connection.

AIT stainless steel: 1/2" to 2" threaded connection.



LIMITS OF USE

PS bronze fluid:	10 bar
PS stainless steel fluid:	12 bar
Fluid TS:	-15°C/+80°C
Chamber pressure:	2.5 bar
Peak pressure:	21 bar



CONSTRUCTION GUIDELINES AND STANDARDS

OBJECT	Standard	OBJECT	Standard
EC Pressure Directive 2014/68	1/2" to 1": A4 § 3 not submitted	Bronze shade	EN 1503-4
	1"1/2 to 2": A4 § 3 use prohibited on group I gases	Stainless steel shade	EN 1503-4
Thread	ISO 228		

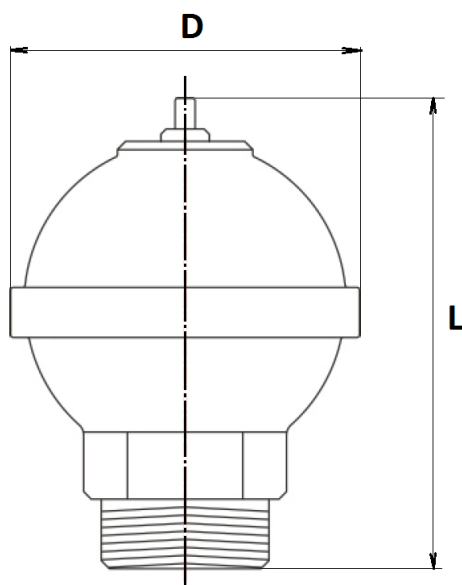
Information given as an indication only, and subject to possible modifications.

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		Rev.	04
		Date	02/2025

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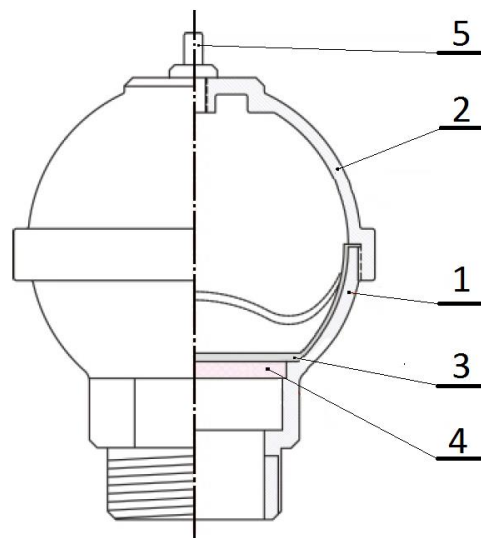
DIMENSIONS (mm) AND WEIGHT (kg)

DN	1/2"	3/4"	1"	1"1/2	2"
L	74	82	95	120	162
D	46	52	62	110	135
Volume (Cm³)	17	30	65	205	650
Weight (kg)	0.3	0.4	0.5	1.4	3.2



CONSTRUCTION

No.	Name	Qty	Material	
1	Body	1	Bronze	CF8 1.4308
2	Lid	1	Bronze	CF8 1.4308
3	Membrane	1	NBR	NBR
4	Support	1	Bronze	CF8 1.4308
5	1/8" valve	1	Brass	Brass



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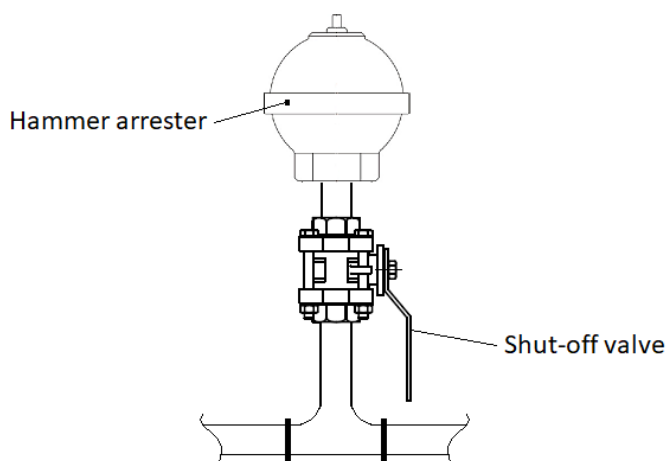
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ASSEMBLY AND MAINTENANCE INSTRUCTIONS

Installation:

By tapping on the piping to be protected.



Assembly:

- 1 - Close the upstream valve of the tapping.
- 2 - Check that the pressure range indicated on the body is adequate for use.
- 3 - Before any installation, cut the upstream and downstream pipes, depressurize the pipeline and bring the installation at room temperature.
- 4 - Thoroughly clean the piping of any particles or shavings by rinsing with water or air blowing.
- 5 - Install the hammer arrester.
- 6 - Open the upstream valve.

Maintenance:

- 1 - Cut the upstream and downstream pipes using the barrier valves before any intervention. Depressurize the pipeline and bring the system to room temperature.
- 2 - Periodically check the inflation pressure of the chamber (2.5 bar).
- 3 - In the event of depressurization of the chamber, remove the cover (2) to check the membrane condition (3).
- 4 - Replace the membrane if it has been pierced or damaged.
- 5 - Clean all internal parts.
- 6 - Reassemble all the parts in the reverse order of disassembly.
- 7 - Re-inflate the chamber to 2.5 bar through the 1/8" valve with compressed air.
- 8 - Put the device back into service by slowly opening the upstream valve.

SPARE PARTS

DN	Code (Diaphragm)	
	Bronze	Stainless steel
1/2"	981840	981841
3/4"	981842	
1"	981843	
1"1/2	981844	
2"	981845	

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