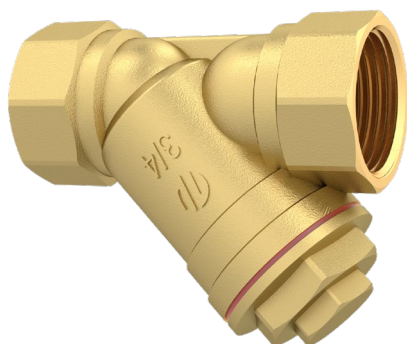




Y TYPE MAGNETIC STRAINER

Y Type magnetic strainer equipped with an N42-grade neodymium permanent magnet, featuring threaded connections for integration into the pipeline system.

- European brass, DW (4MS) certified, approved for use in potable-water applications.
- N42-grade neodymium permanent magnet.
- One-piece service cap with fully encapsulated magnet, preventing any direct contact between the water and the magnet.
- Magnet access cap for inspection and maintenance.



TECHNICAL SHEET Y TYPE MAGNETIC STRAINER

PRODUCT DESCRIPTION

The Y Type magnetic strainer provides dual protection in heating, potable-water, and domestic hot-water systems, ensuring the effective retention of both ferrous and non-ferrous solid particles. The filter incorporates an N42-grade neodymium permanent magnet, which delivers a high magnetic capture capacity, together with a stainless-steel filter that acts as a mechanical barrier against impurities.

The magnet is fully encapsulated within the one-piece service cap, manufactured without joints, preventing any direct contact between the water and the magnet and thereby increasing the safety and durability of the assembly. This service cap is made of European DW (4MS)-grade brass, approved for use in potable-water installations.

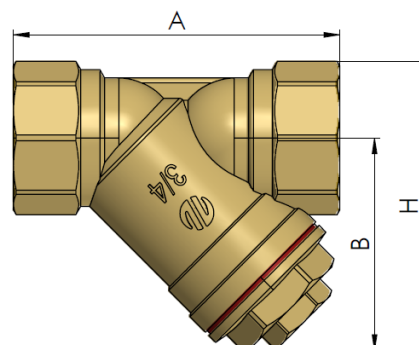
Additionally, the filter includes a secondary cap providing access to the magnet, allowing its removal for replacement or maintenance, thus facilitating service operations in accordance with the instructions in this document.

PRODUCT SCOPE

- Heating installations
- Pumping groups.
- Drinking water distribution networks.
- Cold water and sanitary hot water plumbing installations.

GENERAL DIMENSIONS, PRESSURE AND TEMPERATURE

Code	Size	A (mm)	C (mm)	H (mm)	PN (BAR)	Temp. (°C)*
01850	1/2 F-F	57	40	53	20	0 a 95
01851	3/4 F-F	68	44	60	20	0 a 95
01852	1 F-F	75	53	70	20	0 a 95
01853	1 1/4 F-F	93	70	96	20	0 a 95
01854	1 1/2 F-F	107	78	107	20	0 a 95
01855	2 F-F	126	95	125	20	0 a 95

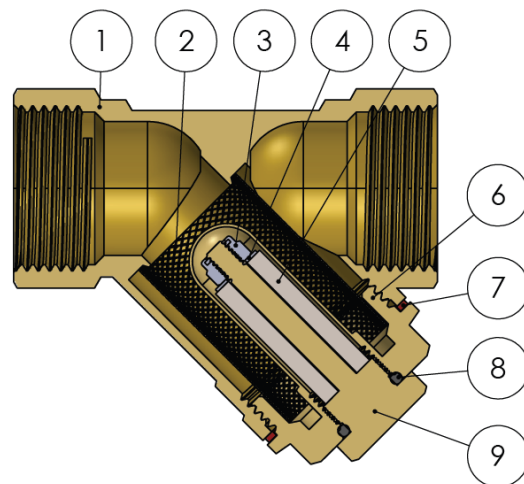


*Freezing is excluded



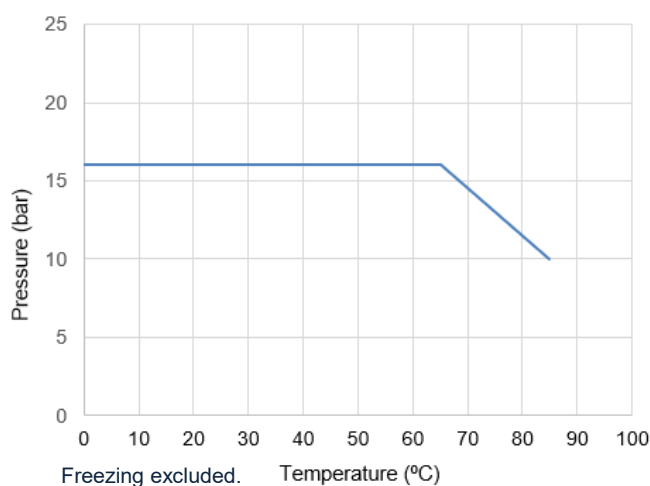
MATERIALS

Item	Component	Material	Finishing
1	Body	Brass CW617N	Brass colour
2	Filter	Stainless steel	Stainless steel
3	Nut	Stainless steel	Stainless steel
4	Washer	Stainless steel	Stainless steel
5	Magnet	Neodymium	-
6	Service cap	Brass CW617N	Brass colour
7	Flat joint	Fiber	-
8	O-ring	NBR	-
9	Magnet access cap	Brass CW617N	Brass colour

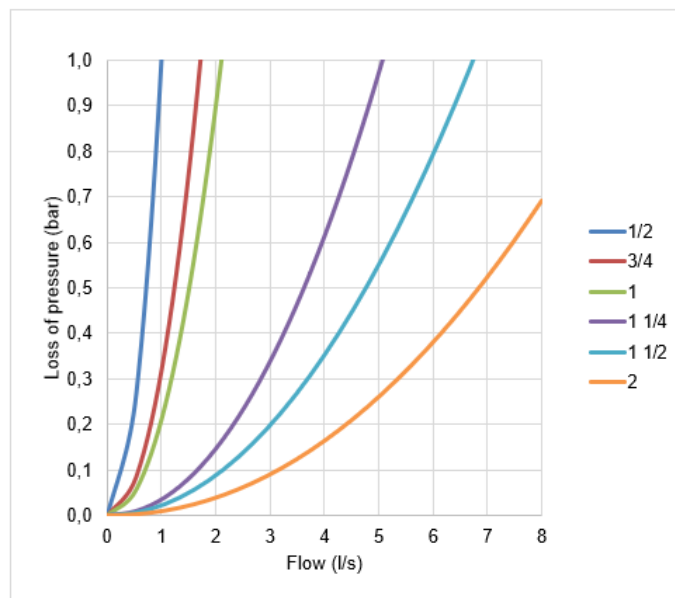


TECHNICAL DATA

Pressure vs. temperature



Hydraulic features. Flow vs. loss of pressure. Y Strainer Filter



Compatibility with fluids

Fluid	Compatibility
Drinking water and domestic hot water	Excellent
Water + 50% Glycol (maximum)	Good

For any other fluid, please contact Arco technical service.

Filter specifications

Nominal diameter.	1/2 a 2
Filtration capacity	700 µm
Equivalent hydraulic diameter	0,75 mm
% open area	60%

Size	1/2	3/4	1	1 1/4	1 1/2	2
Kv	3,6	6,2	7,6	18,2	24,1	34,4

Kv (m³/h), cubic meters per hour that flow through the valve generating a loss of 1 bar pressure.



INSTALLATION INSTRUCTIONS

Before performing any action, the water supply to the installation should be shut off. Make sure there is no dirt or foreign objects in the connection to the network. Apply the appropriate sealing material to the inlet thread of Y type strainer, which should be installed using a suitable tool, working on the flat surfaces of the strainer body, never on the centre, to avoid deformation due to excessive pressure from the tool.

It should be installed in a horizontal position, following the direction of flow indicated by the arrow on the body, ensuring that the service cap is oriented downward and that sufficient space is available for unscrewing and removing the filter. This arrangement optimizes filtration efficiency and facilitates cleaning and maintenance operations through the service cap itself. Installation in a vertical position is not recommended, as it significantly reduces filtration performance.



In closed heating circuits, it is recommended to install the filter at the inlet (return) of the boiler or hot-water generator. For potable-water installations, it is advisable to install it at the entry point of the supply system, upstream of the check valve if applicable or other specific components such as pressure limiters, water meters, etc. Installing shut-off valves before and after the filter facilitates its cleaning.

Restore the water supply and check the tightness of all connections before putting the filter into service.

The assembly of the filter components must not be altered.

MAINTENANCE INSTRUCTIONS

Maintenance of the filter must be carried out at appropriate intervals, depending on the level of impurities present in the water. This maintenance consists of cleaning the filter mesh and the magnet encapsulation.

To perform this operation, proceed as follows:

1. Shut off the water supply to the filter by closing the valves located upstream and downstream of it.
2. Unscrew the service cap and remove both the cap and the filter mesh together.
3. Clean the metal mesh and the magnet encapsulation with water. If necessary, unscrew the magnet cap to remove the magnet and facilitate the removal of adhered ferrous particles.
4. Reassemble the unit, screwing the service cap back in place and ensuring that the gasket is in good condition; if not, replace it.
5. Restore the water supply and check the proper tightness of the filter and its connections.



WARNING: The presence of magnetic fields generated by the magnet in the magnetic filter may damage electronic devices, including pacemakers.



All products have an environmental impact during its life cycle, even once retired. All the components of this product can be recycled. Once the use is over, leave the valve in any recycling green point. Válvulas Arco reserves the right to change the product or any of its technical specifications without prior notice.

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