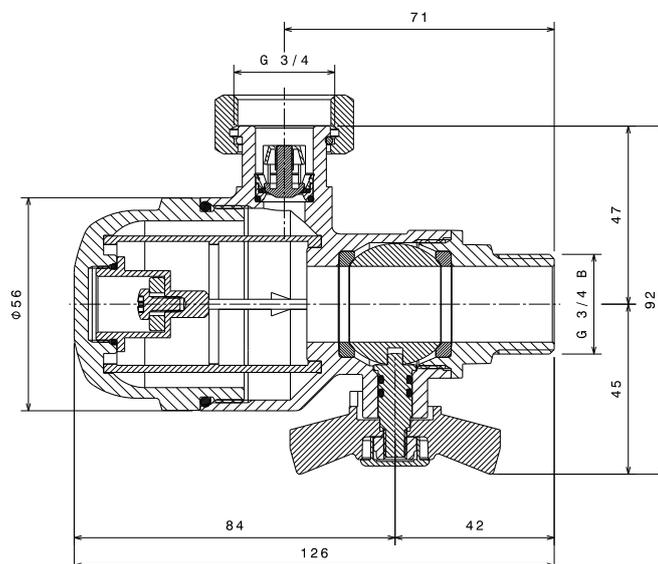


# HERZ - underboiler magnetic filter

Datasheet 1 1125 02, Issue 0620

## ☑ Dimensions, mm



## ☑ Material and construction

Body	forged brass (CW617N) acc. EN 12165, nickel plated
Magnet	neodymium
Spindle	brass (CW617N) acc. EN 12164
Sealing	EPDM
Filter	hostaform and stainless steel
Handle	aluminium
Check valve	POM
DN	20

## ☑ Operating data

Max. operating pressure	10 bar
Max. temperature	90 °C
kvs	3,5
Strainer mesh size	300 µm
Power of the magnet	12.000 G

### Medium:

Heating water quality according to ÖNORM H5195 or VDI-Standard 2035. The use of ethylene or propylene glycol in a mixing ratio 25- 50% is allowed. Please refer to manufacturers documentation when using ethylene glycol products for frost and corrosion protection. Please note that EPDM gaskets will be affected by Mineral oils lubricants and thus lead to failure of the EPDM seals in the valves that use EPDM seals. The HERZ - underboiler magnetic filter is not suitable for usage of aggressive medium (such as: acids, alkalis, combustible and explosive gases.) because it can destroy sealing components.

## ☑ Anwendungsgebiete

HERZ underboiler magnetic filter is used in heating systems. Usage and suggested position in the system is shown on the right picture.



### ☑ Assembly instruction

The threads have to be coated with a suitable sealing material (spinning material, Teflon ribbon, sealing paste). There should not be excess of sealing material because it can damage the thread. HERZ underboiler magnetic filter is screwed onto the pipe. The pipes have to be correctly aligned, so the valve is not loaded with a bending moment. When using copper or plastic pipes take into account pressure and temperature limits of used material. When assembling, use a suitable assembly tool that adapts to filter end connections. HERZ underboiler magnetic filter should be mounted in correct position: shown on page 1 of this data sheet. Following assembly, the connections of ball valve must be checked for water-tightness by the installer. All engineering standards and recognized regulations must be adhered by these specialist staff.

### ☑ Brass

HERZ uses top-quality brass that complies with the latest European standards DIN EN 12164 and DIN EN 12165. Pursuant to Article 33 of the REACH Regulation (EC No. 1907/2006), we are obliged to point out that the material lead is listed on the SVHC list and that all brass components manufactured in our products exceed 0.1% (w / w) lead (CAS: 7439-92-1 / EINECS: 231-100-4). Since lead is a component part of an alloy, actual exposure is not possible and therefore no additional information on safe use is necessary.

### ☑ Function principle

HERZ underboiler magnetic filter mechanically separates the impurities contained in the system. A strong neodymium magnet captures the ferrous contaminants.

### ☑ Maintenance instruction

According to EN 806-5 (point 6. Operation) valves should always be in their fully opened or closed position and actuated at regular intervals to ensure they remain operational. Therefore HERZ Ball valves should be closed and opened periodically at least twice a year, every 6 months. This prevents the ball valve from blocking, reduces sediment deposition and reduces the possibility of corrosion inside the valve.

The combination of a ball valve and a check valve allows an easy maintenance without draining the system.

Underboiler magnetic filter can be easily serviced (as shown).

Close ball valve - Fig. 1,

Unscrew the body-end and remove the filter - Fig. 2,

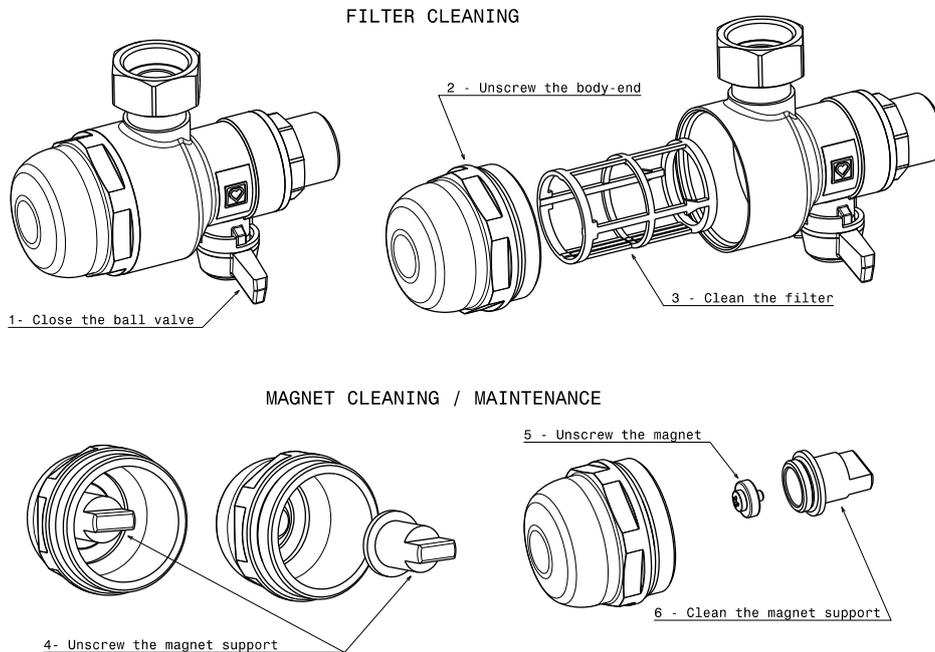
Clean the filter (can be cleaned by water flow) – Fig. 3,

Unscrew the magnet support – Fig. 4,

Unscrew the magnet – Fig. 5,

Clean the magnet support (wash away the ferrite impurities) – Fig. 6,

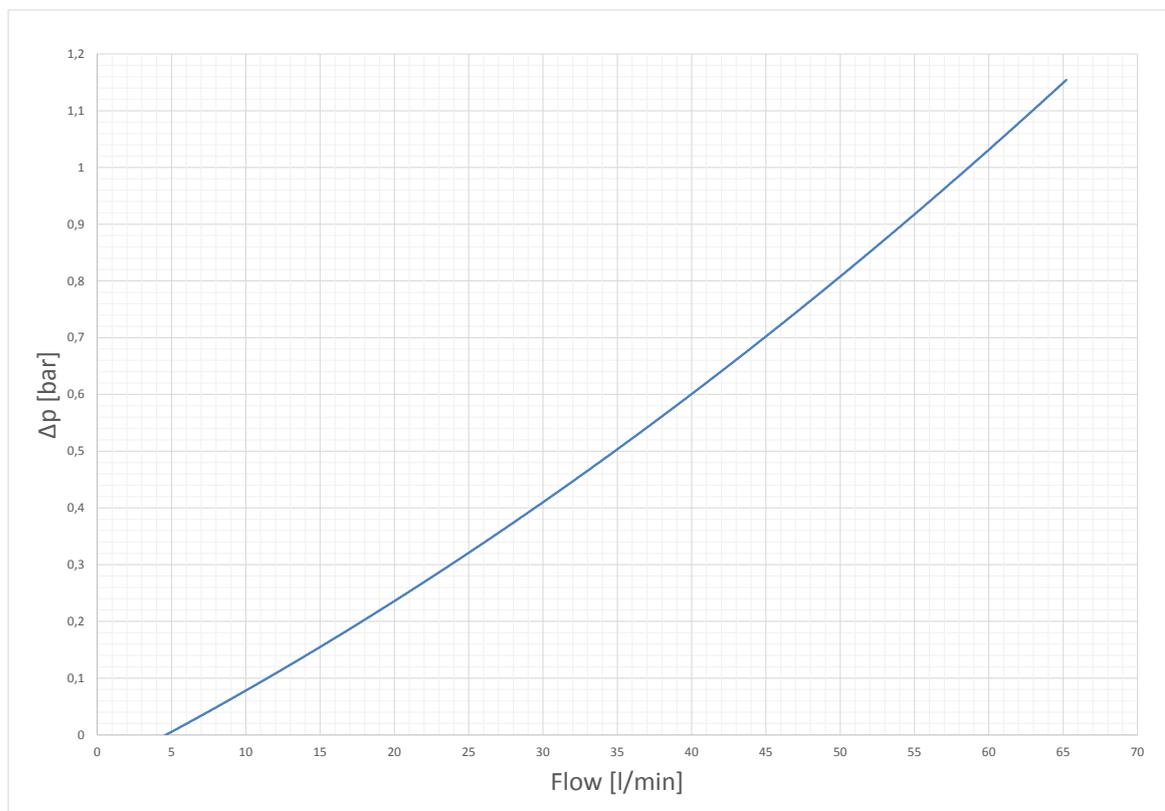
Refit all components in reverse order and open ball valve.



**Disposal instruction**

The disposal of HERZ Underboiler magnetic filter must not endanger the health or the environment. National legal regulations for proper disposal of the HERZ Underboiler magnetic filter have to be followed.

**Pressure drop diagram**



**Spare parts**

Illustration	Description	Item number
	Filter	1 2682 28

**Please note:** All specifications and information within this document are reflecting the information available at the time of going to print and meant for informational purpose only. Herz Armaturen reserves the right to modify and change products as well as its technical specifications and/or its function according to technological progress and requirements. All diagrams are indicative in nature and do not to be complete. It is understood that all images of Herz products are symbolic representations and therefore may visually differ from the actual product. Colours may differ due to printing technology used. In case of any further questions don't hesitate to contact your closest HERZ Branch-Office.