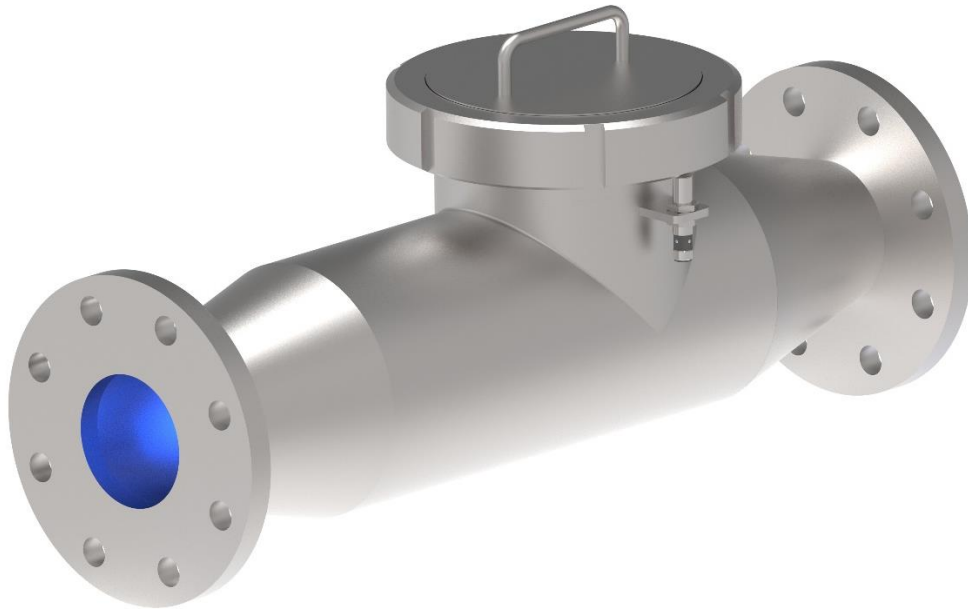


## PRODUCT INFORMATION

### Magnetic filter type series HLM T-1-...



Inline filter HLM T-1 with inductive proximity switch

#### **Area of application**

The magnetic filter type HLM T-1-... is used for separating ferromagnetic and paramagnetic iron impurities from dried, powdery, free-flowing, lumpy, partially hydroscopic and bridge-forming product streams, in dense-phase conveying and pneumatic conveying systems. The filter is designed for and used in the food, chemical, pharmaceutical, mineral and raw material industries depending on the respective requirements of the operating company.

#### **Operating principle**

The product to be cleaned flows through the magnetic filter in pneumatic conveying systems with the magnetisable ferromagnetic and paramagnetic iron impurities being attracted by the magnetic rod and adhering to the cladding tube.

#### **Cleaning**

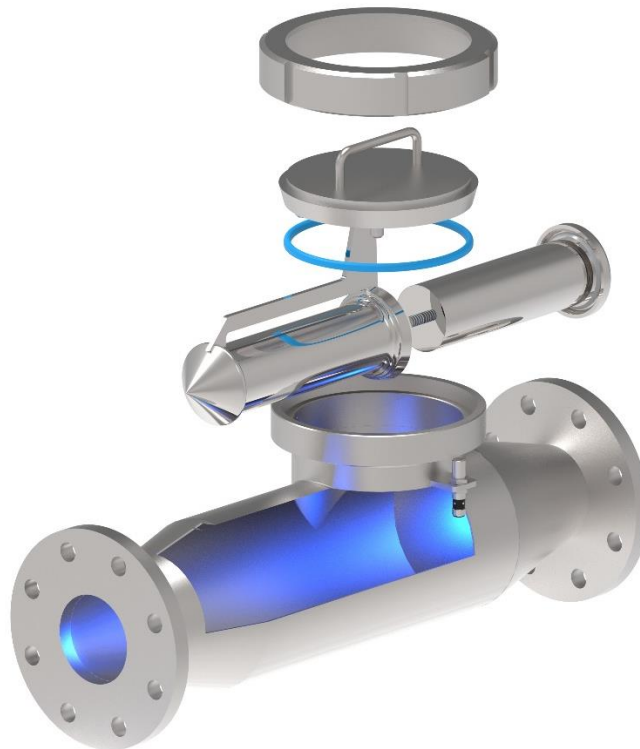
To remove any captured impurities, the magnetic filter is opened and the magnetic insert removed. After cleaning off the adhering product residues the actual magnetic rod can be pulled out of the cladding tube. Impurities can easily be removed from the non-magnetic cladding tube.

Reassemble magnetic filter in reverse order.

## Technical data for magnetic filter T1-60-...

| Pipe connection    |                      | Housing diameter   | Diameter Magnetic rod | Temperature range in °C |           |           | Material qualities of the components in contact with product |                 |
|--------------------|----------------------|--------------------|-----------------------|-------------------------|-----------|-----------|--|-----------------|
| Nominal width (DN) | Nominal width (Inch) | Nominal width (DN) | mm                    | up to 80                | up to 150 | up to 300 | Magnetic rod   | Housing         |
| 50                 | 2                    | 125                | 60                    | X                       | X         | X         | 1.4571   | 1.4301 / 1.4404 |
| 65                 | 2 1/2                | 125                | 60                    | X                       | X         | X         | 1.4571   | 1.4301 / 1.4404 |
| 80                 | 3                    | 125                | 60                    | X                       | X         | X         | 1.4571   | 1.4301 / 1.4404 |
| 100                | 4                    | 150                | 60                    | X                       | X         | X         | 1.4571   | 1.4301 / 1.4404 |
| 125                | 5                    | 150                | 60                    | X                       | X         | X         | 1.4571   | 1.4301 / 1.4404 |
| 150                | 5 1/2                | 150                | 60                    | X                       | X         | X         | 1.4571   | 1.4301 / 1.4404 |

The magnetic filters are manufactured with all required connections (milk pipe, flange, Tri-Clamp, pipe ends, BFM fitting etc.) as per customer request. Horizontal or vertical installation is possible. Dimensions of unit are adapted to flow volume and product properties. The container opening can be monitored by means of a safety position switch. The magnetic rod is welded / encapsulated watertight in a stainless steel jacket. ATEX available for all device sizes



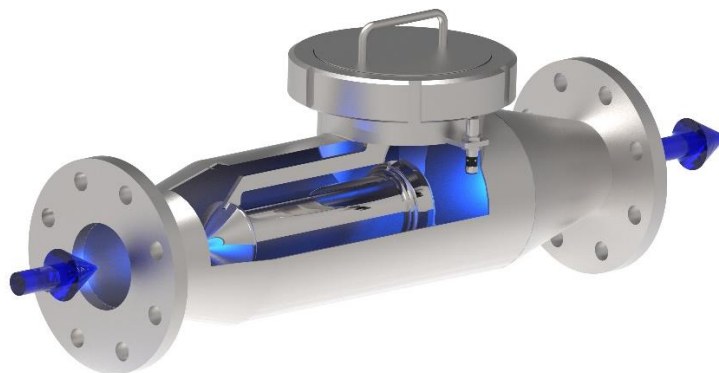
Inline filter T-1-60-150-80 with safety position switch in the cleaning state

## Technical data for magnetic rod

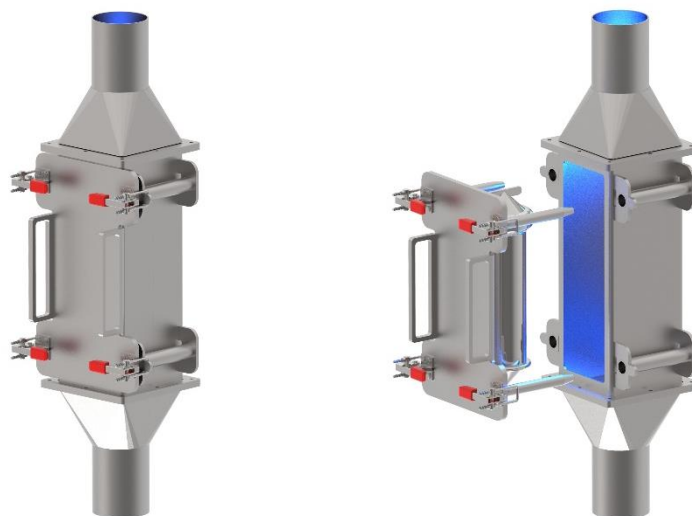
|                         |   |
|-------------------------|---|
| Magnet material         | Rare earth material (NdFeB)   |
| Magnetic field strength | max. 16,000 Gauss on magnetic rod surface<br>max. 12,500 Gauss measured on the cladding tube surface depending on the magnetic rod length and temperature range |
| Diameter                | 63 mm   |

## Housing data

|                  |  |
|------------------|--|
| Material quality | Implementation in stainless steel 1.4301/4404 (brushed, frosted or polished)<br>Seals according to regulation (EC) no. 10/2011, regulation (EC) no. 1935/2004, regulation (EC) no. 2023/2006 (GMP) |
|------------------|--|



Sectional illustration of inline filter T-1-60-150-100



Inline filter TQ-1-60-80