

PRODUCT INFORMATION

Magnetic filter, type series HLM C-1-...-HZ Magnetic filter, type series HLM TR-1-...-HZ



Area of application

The magnetic filter type HLM C-1-... HZ / TR-1-... HZ is used for separating ferromagnetic and paramagnetic iron impurities from liquid, pasty and pumpable product streams. It is designed for and used in the food, chemical and pharmaceutical industries in accordance with the requirements of the operating company.

In order to prevent cooling of the product, the magnetic filter is surrounded by a heating jacket in which a liquid heating medium can circulate.

Operating principle

The product to be cleaned flows through the magnetic filter 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, open magnetic filter and remove magnet insert. After rinsing off 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 C-1HZ										
Pipe connection		connection diameter	Magnetic rod diameter	Flux density in contact with the product in relation to the temperature range			Material qu component product	Heating jacket connection		
Norminal width (DN)	Throughput volume m³/h	Nennweite (DN)	mm	Flux density < 80°C	Flux density < 150°C	Flux density < 300°C	Magnetic rod	Housing	Bushing (Inch)	
25-50	1	50	25	10500	9000	9000	1.4571	1.4301 / 1.4404	1/2	
32 40	1-8 1-8	100 100	60 60	11000 11000	10000 10000	10000 10000	1.4571 1.4571	1.4301 / 1.4404 1.4301 / 1.4404	1/2 1/2	
50 65	1-8 1-8	100 100	60 60	11000 11000	10000 10000	10000 10000	1.4571 1.4571	1.4301 / 1.4404 1.4301 / 1.4404	1/2 1/2	
65	1-8	125	60	12000	11500	11500	1.4571	1.4301 / 1.4404	1/2	
80 100	20 25	125 150	60 60	12000 13000	11500 12000	11500 11500	1.4571 1.4571	1.4301 / 1.4404 1.4301 / 1.4404	1/2 1/2	
125	40	150	60	13000	12000	11500	1.4571	1.4301 / 1.4404	1/2	
The magnetic filters are manufactured with all required connections (milk pipe, flange, TriClamp, imperial, pipe ends, etc.).										

also according to

to wishes

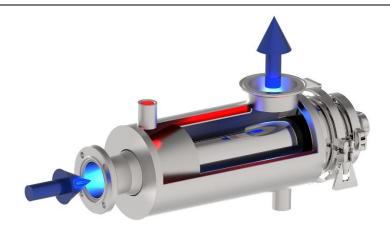
Horizontal or vertical installation is possible.

Dimensions of unit are adapted to flow volume and product properties (viscosity, lumpiness, etc.). Magnetic filter can be supplied in an aseptic version.



Inline filter C-1-60-100-50-HZ cleaning procedure





Inline filter C1-60-100-80-HZ (sectional illustration)

Technical data for magnet

Magnet material Rare earth material (NdFeB)

Magnetic field strength max. 16,000 Gauss on magnetic rod surface

max. 13,000 Gauss measured on cladding tube surface in contact with product, depending on

temperature range and housing size

Magnetic rod diameter 25 mm / 60 mm, depending on housing size

Housing data

Material quality Implementation in stainless steel 1.4301/1.4404

(brushed, frosted or polished)

Seals according to regulation EC no. 10/2011, EC no. 1935/2004, EC no. 2023/2006 (GMP)

Option housing combined with filter insert





Pipe connection		Housing diameter	Diameter of magnet(s)	the pro	nsity in cont duct relation ature range	n tot he	Material qualities of the components in contact with product		Heating jacket connection
Nominal width	Nominal width	Nominal width		up to	un to 150	un to 200	Magnetic rods	Housing	Bushing
(DN) 50	(Inch)	(DN) 100	60	80 11000	up to 150 10000	up to 300 10000	1.4571	Housing 1.4301 / 1.4404	(Inch) 1/2
65	2 1/2	125	60	12000	11500	11500	1.4571	1.4301 / 1.4404	1/2
80	3	125	60	12000	11500	11500	1.4571	1.4301 / 1.4404	1/2
80-100	4	150	25	10500	9000	9000	1.4571	1.4301 / 1.4404	1/2
100-150	5	200	60	11000	10000	10000	1.4571	1.4301 / 1.4404	1/2
>125	>5	250	60	11000	10000	10000	1.4571	1.4301 / 1.4404	1/2
The magnetic filters are manufactured with all required connections (milk pipe, flange, Tri-Clamp, pipe ends, etc.) as per customer request. Horizontal or vertical installation is possible. Dimensions of unit are adapted to flow volume and product properties (viscosity, lumpiness, etc.). Magnetic filter can be supplied in an aseptic version.									



Inline filter TR-1-60-100-50-HZ cleaning procedure





Inline filter TR-1-60-125-80 (sectional illustration)

Technical data for magnet

Magnetic rod Magnet material Magnetic field strength 1 magnetic rod
Rare earth material (NdFeB)
max. 15,000 Gauss on magnetic rod surface
max. 12,000 Gauss measured on cladding tube
surface in contact with product, depending on
magnetic rod length and temperature range

Housing data

Material quality

Implementation in stainless steel 1.4301/1.4404 (brushed, frosted or polished)

Seals according to EC no. 10/2011, EC no. 1935/2004, EC no. 2023/2006 (GMP)