

I Applications:

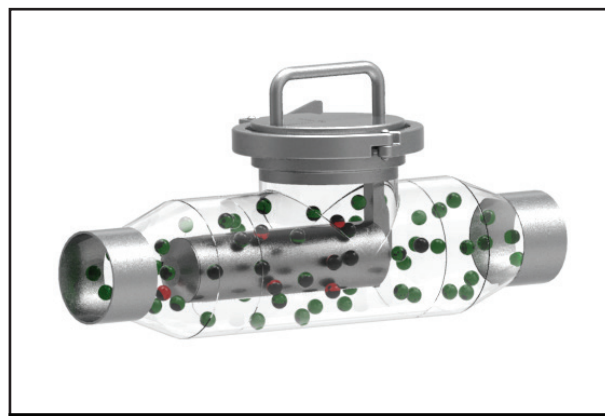
Tube filter magnets of series PFM-L are used where ferromagnetic particles are to be separated from fine-grained product flows. The pipe systems can either be suction lines or pressure feed lines.

I Description of functions:

The casing of the ProMag-system is installed into the pipe system using flanges, clamp-sockets or a rigid welded connection thus ensuring an uninterrupted product flow. The material conveyed flows through the ProMag-System and it is thus exposed to the strong magnetic field of the installed magnetic filter rod. Consequently, even weak magnetic contamination of the product will be detected and attracted by the magnetic system.

ProMag

PFM-L



I Product requirements:

The product to be controlled must be fluid and must not damage the stainless steel materials used.

I Housing:

Material: AISI 304

Surface:

Polished outside, ground inside

Connection via free plugs

(other designs by arrangement)

I Magnetic material:

High energy neodymium magnets for the separation of very fine iron particles. The ambient temperature must not exceed 80°C.

(higher temperatures to be agreed upon)..

Magnetic material:

energy product max. 418 kJ/m³

HcJ-value \geq 860 kA/m

Br-value max. 1330 mT

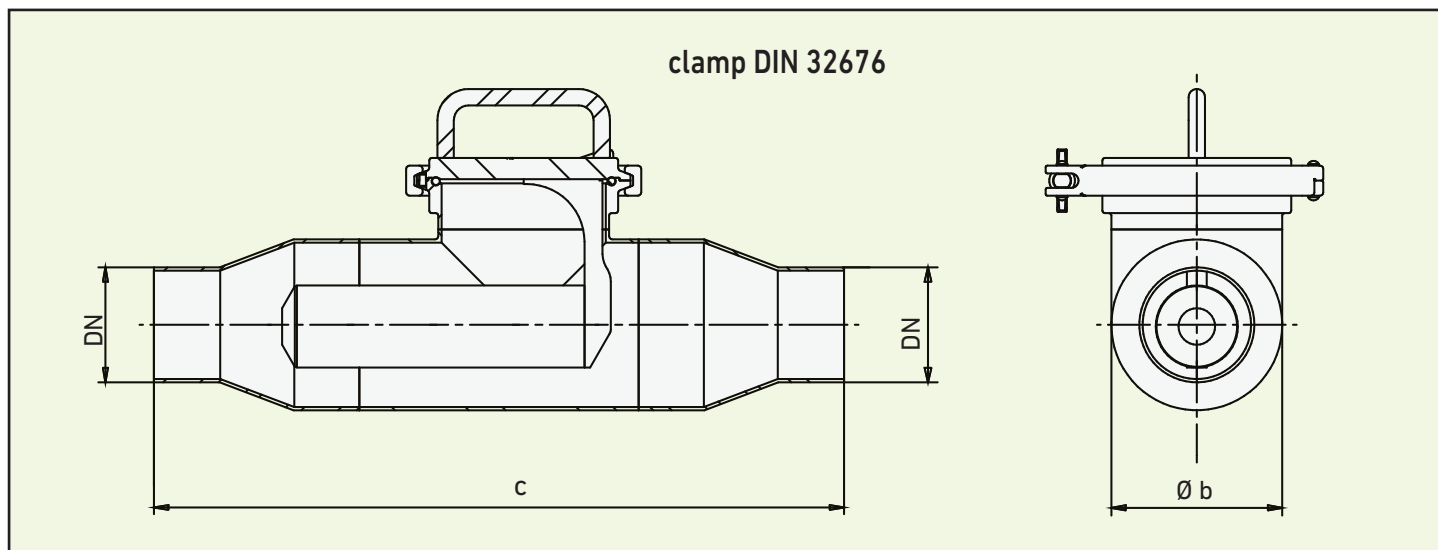
I Product description:

The ProMag-system has a stainless steel case with a surface finish to suit industry requirements.

The magnetic insertion - consisting of a centrally arranged filter magnet is fixed in the casing with a clamp connection.

The pole spacing of the magnetic rod is so designed that the flow space between magnetic system and housing wall can be reliably monitored for magnetic particles. This is successful also at high flow rates. The casing design and the dimensioning of the magnetic insertion are selected in such a way that there is virtually no restriction within the tube system and that the product can flow without any interference.

After the activation of the magnetic insertion there are no further fittings - ideal for cleaning and rinsing!



Type PFM-L	DN	Øb	c	kg	Type PFM-L
NW 50	50	104	620	8,5	NW 50
NW 65	65	104	420	7,0	NW 65
NW 80	80	104	420	5,5	NW 80
NW 100	100	154	750	14,5	NW 100
NW 125	125	154	750	14,5	NW 125

I Cleaning:

For easy removal of the control system, first loosen the clamp and pull the insertion out of the casing using the handle. All the attracted magnetic particles are securely held by the magnetic system.

Then, carefully wipe the metallic particles along the filter rod towards the cone head piece with a soft cloth for cleaning purposes. The magnetic field around the head piece is distinctly weakened.

All the foreign particles will be detached from the magnetic rod's surface and fall off.



I Operating pressure:

The maximum permissible pressure for the standard design is 6 bar! Higher requirements can be realized in agreement with us.

I Atex:

ProMag systems have been tested for freedom from ignition sources in accordance with EU Directive 94/9/EC. All machines are also suitable for use in ATEX Zone 20 (dust) provided the design is adapted accordingly.