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Applications:

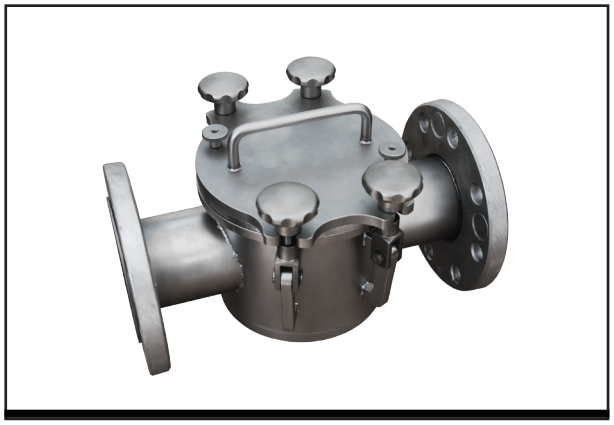
ProMag separators monitor pneumatic conveying systems for metallic contamination. The systems can either be suction lines or pressure feed lines with a maximum operating pressure of 8 bar.

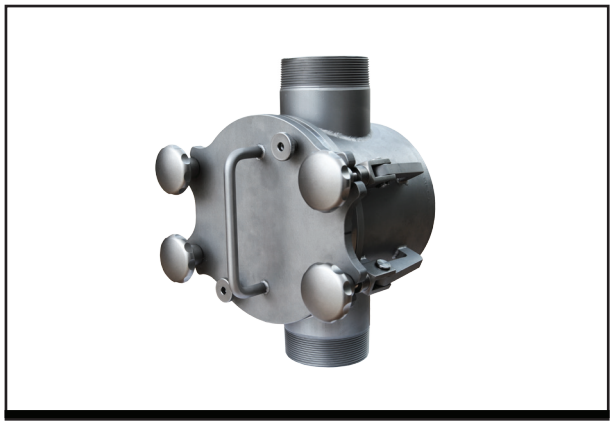
Description of functions:

The magnetic separator that is integrated in the pipe line monitors the product flowing through for magnetizable contamination. The arrangement of the magnetic rods ensures the magnetic control of the whole pipe cross sections and guarantees that seized metallic particles are held tight.

ProMag

PFM-T





Product requirements:

Important for bulk materials: The product to be monitored must be dry, powdery or small-sized.
It must not be abrasive!

Housing:

Material: 1.4301
Surface:
glass bead blasted outside, ground inside
Connection via flanges according to
EN 1092-1 PN16 Type 11
(other designs to be agreed upon)
max. operating pressure: 6bar

Magnetic material:

High energy neodymium magnets that remove even the finest metal contaminants are used.

Magnetic material:
Energie procuct max. 342 kJ/m^3
Coercive force HcJ >= 876 kA/m
Remanence B_R max. 1370mT
Active surface: max. 1000mT
Operating temperature max. 80°C

Product description:

Standard flanges of series EN 1092-1 PN16 Type 11 for the inlet and for the outlet are used for the connection with the tube pipe system. The magnetic separator can thus be safely and interchangeably installed into pipelines under pressure.

The filter rods in the housing interior are so arranged that the whole tube´s cross section is controlled by the magnetic monitoring field. Particles passing by thus hardly have a chance to flow through the magnetic separator without direct contact towards one of the magnetic rods. Seized metallic particles are held tight by the extremely strong neodymium magnetic rods and are not carried away by the product flow.
The magnetic insertion is fixed by several swivellable star handle lock at the casing´s body. After the extraction of the insertion they remain at the casing and are thus always within reach.

After the drawing of the magnetic insertion there is no further installed equipment within the casing – this ensures an easy cleaning

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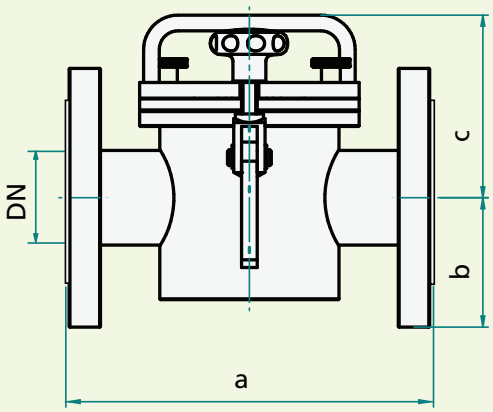
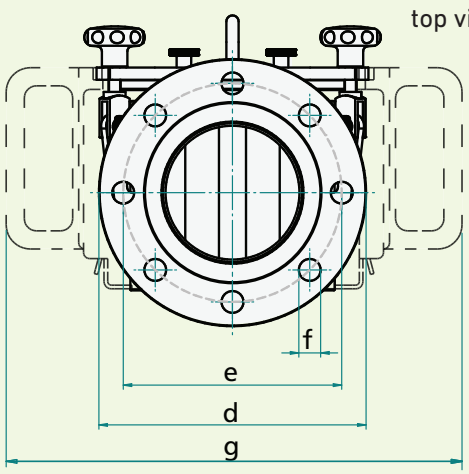
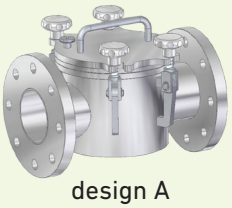
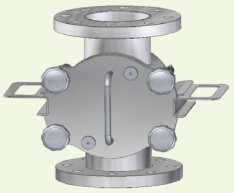


flange according to EN 1092-1, type 11





design A
without handles



design B
with handles

Type PFM

		DN	magnetic bars	a	b	c	d	e	f	g	kg
NW 50	A	50	4	250	82,5	116,5	165	125	4 x 18	-	12,5
NW 65	A	65	4	250	92,5	124	185	145	8 x 18	-	14,0
NW 80	A	80	7	300	100	132	200	160	8 x 18	-	22,5
NW 100	A	100	7	300	110	144	220	180	8 x 18	-	25,0
NW 100	B	100	7	300	110	144	220	180	8 x 18	377	26,5
NW 125	A	125	7	330	125	156,5	250	210	8 x 18	-	28,0
NW 125	B	125	7	330	125	156,5	250	210	8 x 18	377	29,0

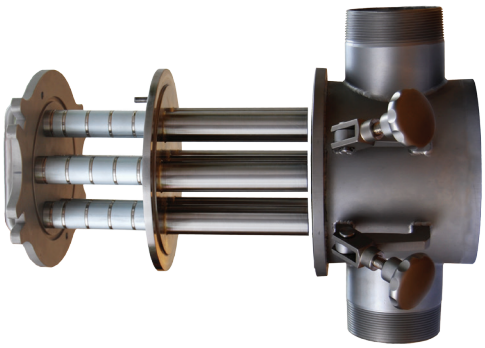
Cleaning:

Open the star handles and pivot them laterally for cleaning the insertion. Pull the insertion out of the casing at the strap grip.

With nominal widths of more than DN100 – lateral guide rails at the casing support the user in vertical fitting position. They carry the weight until the insertion is completely pulled out.

Furthermore, hand grips located beside the centre of gravity are at your disposal.

As soon as the magnetic insertion is removed, the metallic particles separate from the stripping unit and fall down.



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.