RS Magnete GmbH Quellenweg 4 87700 Memmingen

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Applications:

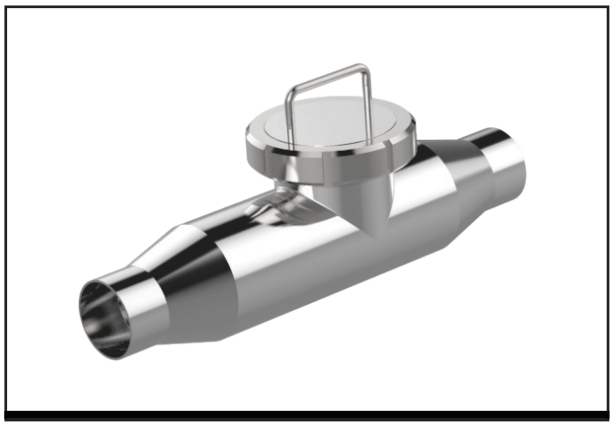
Tube filter magnets of series FRM-L are used where ferromagnetic particles are to be separated from liquid or viscous product flows.

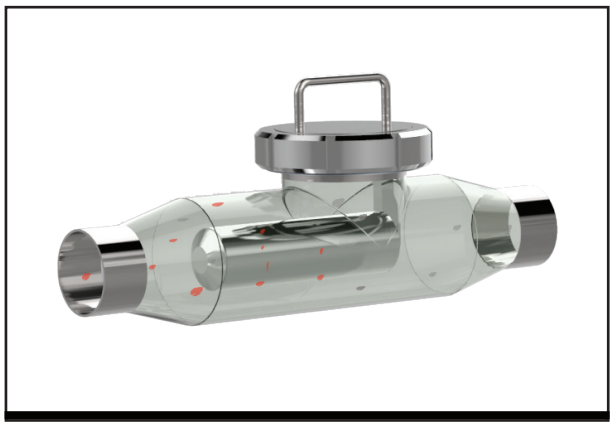
Description of functions:

The casing of the FluidMag-system is installed into the pipe system using system connections, flanges, clamp-sockets or a rigid welded connection thus ensuring an uninterrupted product flow. The material conveyed flows through the Fluid-Mag-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.

FluidMag

FRM-L





Product requirements:

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

Housing:

Material: AISI 304
Surface:
Polished outside, ground inside
Connection via free plugs
(other designs by arrangement)

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 >= 860 kA/m
Br-value max. 1330 mT

Product description:

The FluidMag-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 system 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!

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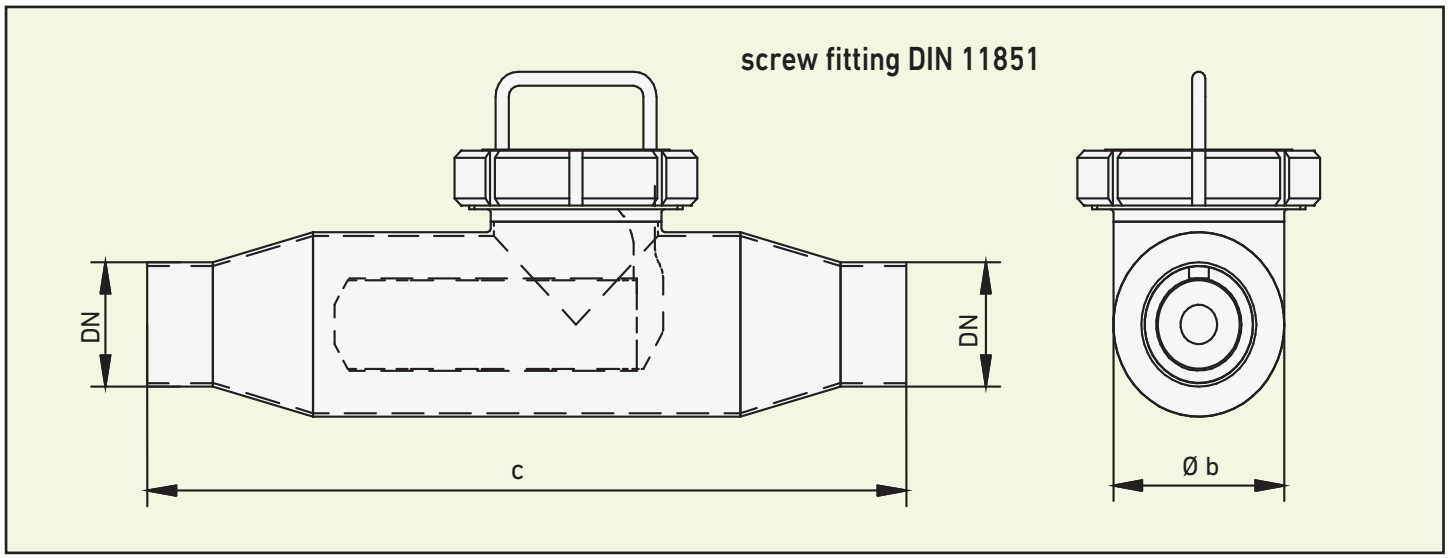

Type FRM-L	DN	øb	c	kg	Type FRM-L
NW 50	50	104	700	8,5	NW 50
NW 65	65	104	420	5,5	NW 65
NW 80	80	104	420	5,5	NW 80
NW 100	100	154	560	14,5	NW 100
NW 125	125	154	560	14,5	NW 125

Cleaning:

For easy removal of the control system, first loosen the locking ring 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.

Operating pressure:

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