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Applications:

BoxMag-Systems are installed into pipings or drop shafts where powder or fine-grained granulate material are separated from magnetizable particles.

I Description of functions:

The BoxMag-System's casing is connected to the piping system by flanges. Thus ensures a dust-free and unimpaired product flow in the production plant. The material to be conveyed flows through the BoxMag-System and is exposed to the strong magnetic field of the installed magnetic filter rods. Even weak magnetic contaminations in the product are seized, attracted by the filter rods and held tight.

BoxMag



RFM-S double layer



I Product requirements:

The material to be controlled must be dry, powdery or short-fibred and free-flowing.

I Housing:

Material: Stainless steel AISI 304 Surface: Outside blasted with ceramic beads, Inside smoothed Inlet and outlet with flanges (Connection pieces for connecting to the pipes are available upon request)

I 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. 1370mTActive surface: max. 1000mTOperating temperature max. 80°C

I Product description:

The magnetic rods of the BoxMag-separator are arranged in such a way that the product will touch the surface of one filter rod with high probability when flowing through the system. There, it is most likely that even low magnetic particles can be held tight by the strong permanent magnets.

Apart from the optimized arrangement of the magnetic rods it is most important to make the operator's daily work easier during the removal and installation of the magnetic insertion.

The magnetic plug-in unit is equipped with hand grips at its side brackets. These grips are placed within the centre of the plug-in unit – balanced carrying is possible

During the removal or mounting of the magnetic plug-in unit the weight is located on a guide rail at the casing. The operator's workload is reduced and the plug-in unit is exactly positioned at the same time. The magnetic plug-in unit is fixed in the casing with spring compressors – easy handling without tools.



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	magnetic bars	а	b	С	d	е	kg
Type RFM-S							
150 x 150	5	150	156,5	153	226	226	13
200 x 200	7	200	206,5	203	276	276	20,5
250 x 250	9	250	256,5	253	326	326	28
300 x 300	11	300	306,5	303	376	376	35,5

I Cleaning:

For cleaning purposes the operator opens the two spring compressors and pulls the magnetic plug-in unit in the guide rails out of the casing. Only if the unit leaves the guide rails must it hold their weight. It is supported by the hand grips lying laterally at the centre of the plug-in unit.

The operator removes the magnetic plug-in unit from the EasyClean-stripping device outside the product range.

As soon as the plug-in unit is removed, the metallic parts break away and fall off.



I ATEX:

BoxMag 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.