

Magnetic Separator and Cyclone Separator

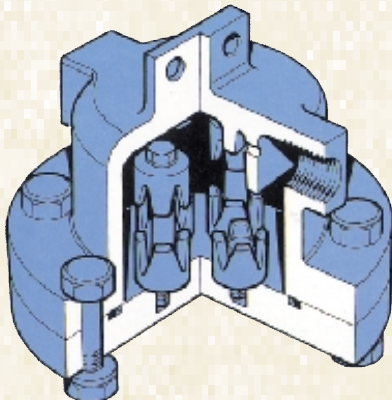
Magnetic Separators

The magnetic separator is designed for mechanical seal injection flow (API Plan 23) as well as installation in control lines and other locations. Creates a magnetic field that separates and holds iron oxide particles from the process liquid to prevent them from causing abrasion or hang-up.



Operating Parameters

- Capacity: To 4 gpm (15 l/m)
- Pressure: To 1500 psi (103.4 bar)
- Temperature: To 400° F (204° C)
- Connections: 0.500" NPT, MS-6670-DJ
0.750" NPT, MS-0750-DJ



Separation Efficiency

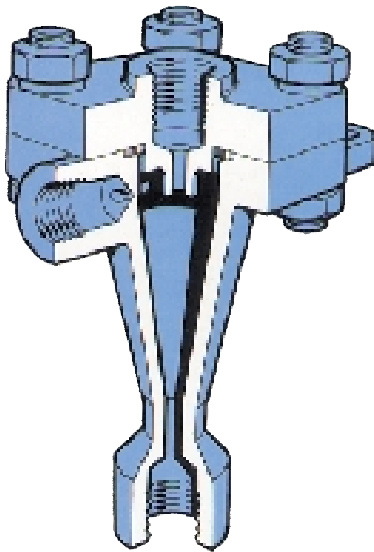
Flow gpm	Iron Collection gram/min
0.5	120
1.0	115
2.0	105
3.0	90
4.0	70

Cyclone Separators

Offered in three different sizes, cyclone separators are designed to efficiently remove sand, pipe scale and other abrasive particles from injection flow (API Plan 31) to mechanical seals. Separation is accomplished by centrifugal force generated by differential pressure across the cyclone.

Operating Parameters

- Capacity: clean flow from 0.9-15 gpm (3.4-57 l/m)
- Pressure: To 2000 psi (138 bar) at 650° F (330° C)
To 1350 psi (93 bar) at 850° F (455° C)
- Temperatures: To 850° F (455° C)
- Connections: 0.500" to 0.750", NPT or socket weld



Separation Efficiency

Particle Size	% Solids removed*
Sand	>99
9.5 micron powder	99
5.0 micron powder	94
2.5 micron powder	93

*with 100 psi differential pressure

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Licensees, authorized agents, and affiliated companies located worldwide.

United States	Canada	Netherlands	Argentina	Australia
Kalamazoo, MI Phone 616-381-2650 Fax 616-381-8368	Edmonton, Alberta Phone 780-463-7958 Fax 780-450-1241	Scarborough, Ontario Phone 416-292-2877 Fax 416-292-5190	Roosendaal Phone 31-165-581400 Fax 31-165-552622	Villa Martelli Phone 54-11-4790-6800 Fax 54-11-4709-7072
Singapore	Mexico	Brazil	Japan	Germany
Phone 65-746-4318 Fax 65-747-1963	Tlaxcala Phone 52-2-461-6791 Fax 52-2-461-6847	Sao Paulo Phone 55-11-4066-8600 Fax 55-11-4066-7014	Osaka Phone 81-720-85-5571 Fax 81-720-85-5575	Dortmund Phone 49-231-6964-0 Fax 49-231-6964-248

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