

# Magnetic Separator and Cyclone Separator

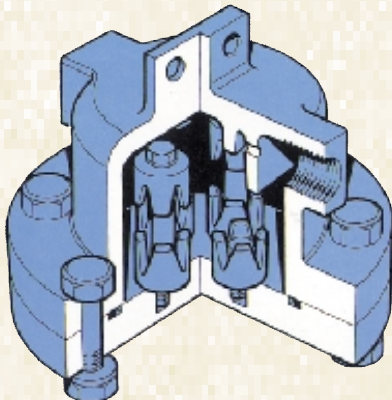
## Magnetic Separators

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

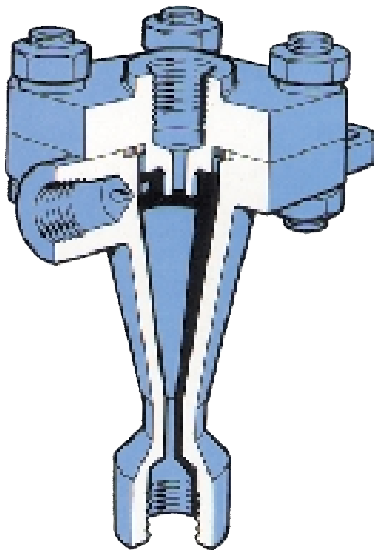
Flow gpm	Iron Collection gram/min
0.5	120
1.0	115
2.0	105
3.0	90
4.0	70

### 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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