



Steam & Water Sampling

Sample Conditioning Products

Sentry Magnetic Trap MT-1V

description

The Sentry® MT-1V magnetic trap isolates magnetite particulates to protect both sample conditioning and analytical instrumentation from critical downtime and costly repairs. The MT-1V magnetic trap uses high strength neodymium magnets that are inserted into the core of the trap to attract and capture magnetite.

models

MT-1V

benefits

Particulates have always posed a challenge for sample conditioning and analysis systems. However, as traditional baseload plants shift to cyclic operation, entrained oxide particulates present an even greater challenge to maintaining sample availability and reliable results demanded by cycle chemistry programs.

Crud bursts caused by chemical and mechanical upsets in power plants carry particulates downstream, causing restrictions and other damage to the plant's critical instrumentation and sampling systems.

Conventional filters trap all particulate and choke off sample flow as the filtering media becomes plugged with contaminants. The Sentry Magnetic Trap captures only entrained oxide particulate and lets the remaining particulate pass, protecting the conditioning equipment while maintaining sample integrity.

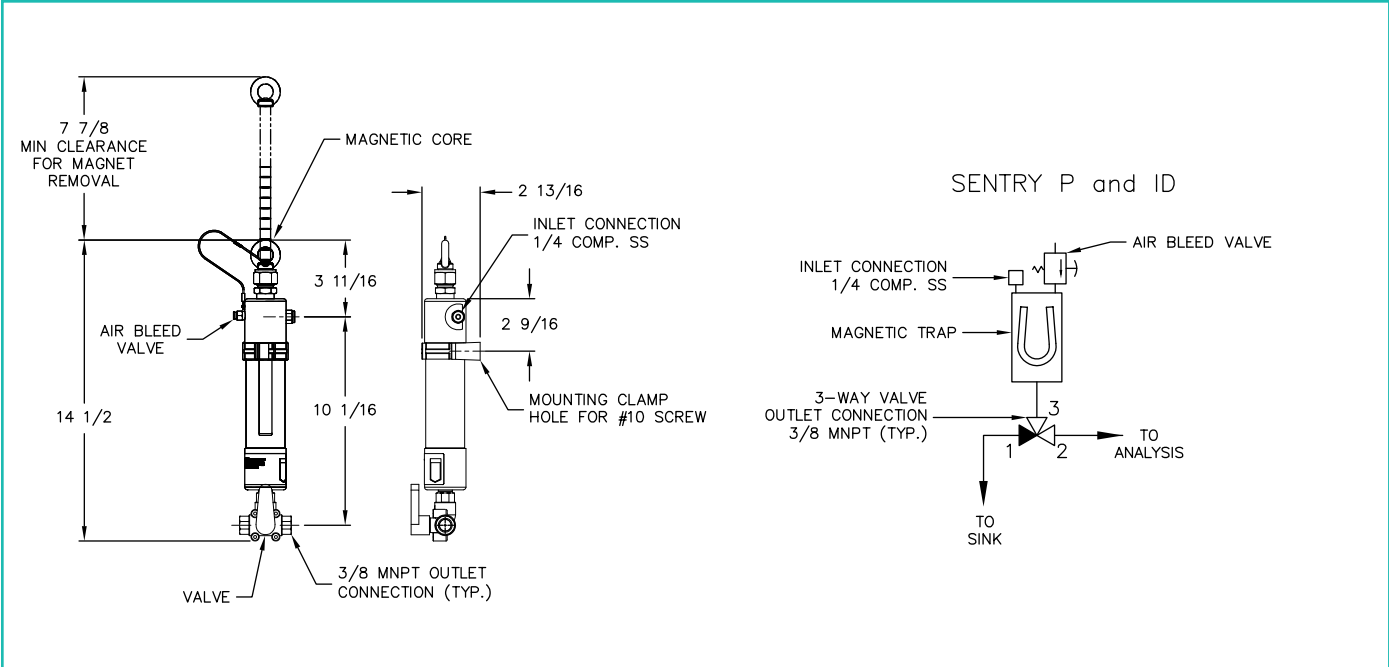
The large 8.8 in² (57 cm²) magnetic surface area captures over 60 g of magnetic particulate when operated within EPRI guidelines. The magnetic trap is purged in place, requires no tools or disassembly.

features

- **Plug-free design** – Unlike conventional filters and strainers that plug and restrict flow, the Sentry MT-1V magnetic trap isolates magnetic particulate from the sample stream to minimize plugging
- **Maintains sample integrity** – Traps only magnetite contamination and allows sample to flow around the trapped contaminant, not through it
- **Low pressure** – For pressures up to 100 psig at 175°F (6.75 bar at 79°C)
- **Purge-in-place** – Purge-in-place requires no tools or disassembly and prevents the introduction of oxygen into the sample stream
- **Versatile** – Available as a stand-alone trap or as a complete assembly with all necessary components and hydrotested for simple field retrofit or new panel installation
- **Spring-return air bleed** – To bleed any trapped air at start-up
- **Wetted materials** – Include PDM, polycarbonate, 316 stainless steel, glass-filled polypropylene, Buna-N



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specifications						
model	description		rating	flow rate	particle size	max particle loading
part no.						
MT-1V	Low Pressure Trap with valve assembly		trap: 100 psig at 175°F (6.75 bar at 79°C) valve: 125 psig at 140°F (8.6 bar at 60°C)	1200 cc/min max	5 µm–1.4 mm	65 g
7-04950D						

