



Gas



Liquid & Slurry



Solid & Powder



Steam & Water

SENTRY MT-1 MAGNETIC TRAP

Sample Conditioning Components

STEAM & WATER SAMPLING

Magnetite particles can cause huge problems within a sampling system by jamming and plugging components. The Sentry® MT-1 magnetic trap isolates magnetite particulates to protect sample conditioning and analytical instruments from critical downtime and costly repairs. The magnetic trap uses high strength neodymium magnets in its core to attract and capture the magnetite before it can cause damage, protecting Sentry VREL® control valves, flowmeters and analyzers.

To meet varying power plant needs, the magnetic trap is available in low- to high-pressure models, as stand-alone traps as well as complete valve assemblies.

MODELS

MT-1 low-pressure model (with mounting bracket)

MT-1V low-pressure model (with valve assembly)

BENEFITS

While conventional filters trap all particulates and choke off sample flow as the filtering media becomes plugged with contaminants, the Sentry MT-5 magnetic trap captures only entrained oxide particulate and lets the remaining particulates pass, protecting conditioning equipment while maintaining sample integrity.

FEATURES

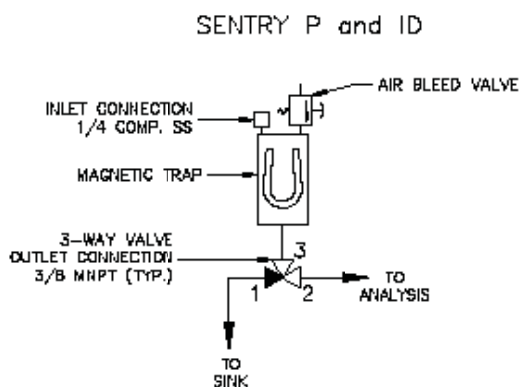
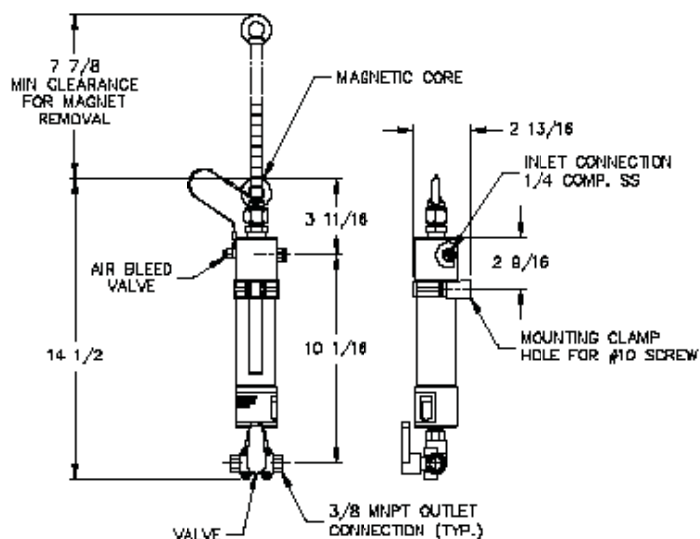
- Designed specifically for the extreme conditions of power plants
- NEVER plugs
- Single-stroke actuator and purge-in-place requires no tools or disassembly and prevents the introduction of O₂ into the sample stream
- Spring-return air bleed bleeds any trapped air at start-up
- Available as a stand-alone trap or as a complete assembly with all necessary components
- Large 8.8 in² (57 cm²) magnetic surface area captures over 60 g of magnetic particulate when operated within EPRI guidelines
- Hydrottested for simple field retrofit or new panel installation



Sample. Monitor. Measure.

SENTRY

Any Application. Anywhere.



SPECIFICATIONS

pressure ratings	trap: 100 psig at 175°F (6.75 bar at 79°C) valve: 125 psig at 140°F (8.6 bar at 60°C)
flow rate	1200 cc per minute
wetted materials	316 SS, PDM, polycarbonate, glass-filled polypropylene, Buna-N
particle size	5 µm–1.4 mm
maximum particle loading	65 g

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