The Sarasota RTR900 instrument retractor allows the Sarasota ID900 gas density meter to be installed directly into the pipeline or tank under operational conditions. The Sarasota RTR900 enables the safe insertion and removal of the Sarasota ID900 without the need to isolate or depressurize the pipeline or process, avoiding the inconvenience and costs associated with downtime, as well as contributing to plant safety.

Product Specifications

Sarasota RTR900

Instrument Retractor for use with the Sarasota ID900 Gas Density Meter





Features

- · High pressure capability
- Enables safe insertion and removal of Sarasota ID900
- Wide operating temperature range
- Rugged construction
- Interlock vent valve for safe operation
- Integral seal housing
- Suitable for use with pipelines or vessels
- Dual vent valve option for in-situ calibration check

Thermo Electron Corporation's Sarasota RTR900 instrument retractor enables the safe insertion or removal of a Sarasota ID900 gas density meter from a pipeline or tank without the need to shut down the process. It is suitable for use in high pressure applications up to the maximum working pressure of the Sarasota ID900 of 150 bar (2175 psi), or flange rating.

Mounted on a standard ball or gate isolation valve, the Sarasota RTR900 is secured to the system pipeline with a flange to suit customer requirements. Designed to accommodate the Sarasota ID900 with a 1000 mm (39.4 in) stem within the retractor shaft, the Sarasota RTR900 also comprises a handwheel, seal housing, and vent valve. The Sarasota ID900 is inserted or removed from the line or vessel by the rotation of the handwheel. After retracting the instrument from the line, a simple venting procedure ensures that the meter is fully isolated and depressurized before removal. The option of a second vent valve allows the density meter to be isolated in the retractor and the isolated volume to be evacuated or purged. This allows the introduction of a sample gas for online validation of the density meter's calibration. Complete retraction requires an unobstructed headroom of 1400 mm (55 in).

A simple mechanical interlock between the vent valve and the retractor closure system minimizes the likelihood of the retractor seal housing being opened while the retractor is still pressurized.

Routine maintenance to the Sarasota RTR900 is minimal and can usually coincide with the routine maintenance of the Sarasota ID900 and other line instruments.

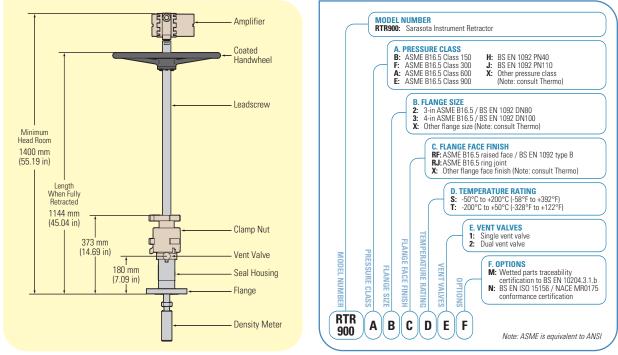


Sarasota RTR900 — Instrument Retractor

	Specification
Functional Specifications	
Process Temperature Range	-50°C to +200°C (-58°F to +392°F) or -200°C to +50°C (-328°F to +122°F)
Operating Pressure Range	177 bar (2567 psi) maximum or flange pressure/temperature rating
	Note: maximum working pressure of Sarasota ID900 is 150 bar (2175 psi)
Length of Stroke	660 mm (26 in)
Leadscrew Pitch	4.23 mm (6 threads per inch)
Physical Specifications	
Materials	Seal Housing: Stainless steel
	Leadscrew: Dry lubricant coated stainless steel
	Gland Nut: Aluminium bronze
	Seal: Silver plated Inconel® X750
	Handwheel: Nylon coated aluminium alloy
Net Weight	Typically 40 kg (90 lb) Note: based on 3-in ASME B16.5 RF Class 300 flange
Shipping Weight	Typically 45 kg (100 lb) Note: based on 3-in ASME B16.5 RF Class 300 flange
Dimensions	See dimensional diagram; Minimum headroom required 1400 mm (55 in);
	For use with Sarasota ID900 with 1000 mm (39.4 in) stem; Handwheel diameter 510 mm (20 in)
Shipping Dimensions	1020 mm x 660 mm x 380 mm (40 in x 26 in x 15 in)
Installation Requirements	Sarasota RTR900 must be mounted on a full bore isolation valve or ball valve. The isolation valve must be mounted
	squarely on the nozzle attached to the system pipeline or tank, and must be clear of obstructions. The Sarasota RTR900
	should be installed directly on a mating flange allowing a minimum headroom of 1400 mm (55 in) for complete retraction.
Environmental Rating	IP65 (NEMA 4X)
Compliance/Certification	
Quality Assurance	ISO 9001:2000
CE Mark	Compliant
Pressure Equipment Directive (97/23/EC)	SEP (sound engineering practice)
BS EN ISO 15156 /	Available as option
NACE MR0175 Conformance	
Materials Traceability	Wetted parts traceable to BS EN 10204.3.1.b; Certification available

RTR900 + ID900 Dimensional Diagram

Ordering Information



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