The Thermo Scientific Sarasota RTR900 instrument retractor allows the Thermo Scientific 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 while contributing to plant safety.

**Thermo Scientific Sarasota RTR900**
Instrument Retractor for use with the Thermo Scientific Sarasota ID900 Gas Density Meter

- 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

The Thermo Scientific Sarasota RTR900 instrument retractor 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, enabling 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 to maximize uptime.
Specifications and Ordering Information

Thermo Scientific Sarasota RTR900

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
- Seal Housing: Stainless steel
- Leadscrew: Dry lubricant coated stainless steel
- Gland Nut: Aluminum bronze
- Seal: Silver plated Inconel® X750
- Handwheel: Nylon coated aluminum 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)
- 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
- CE Mark: Compliant
- Pressure Equipment Directive (97/23/EC) SEP (sound engineering practice)
- BS EN ISO 15156 / NACE MR0175 Conformance
- Materials Traceability: Wetted parts traceable to BS EN 10204.3.1.b; Certification available

Sarasota RTR900 + Sarasota ID900 Dimensional Diagram

Ordering Information
- MODEL NUMBER: RTR900: Sarasota RTR900 Instrument Retractor
  - A. PRESSURE CLASS
    - B: ASME B16.5 Class 150
    - F: ASME B16.5 Class 300
    - A: ASME B16.5 Class 600
    - E: ASME B16.5 Class 900
  - H: BS EN 1092 PN40
  - J: BS EN 1092 PN100
  - X: Other pressure class
  (Note: consult Thermo Fisher Scientific)
- B. FLANGE SIZE
  - 2: 3-in ASME B16.5 / BS EN 1092 DN80
  - 3: 4-in ASME B16.5 / BS EN 1092 DN100
  - X: Other flange size
  (Note: consult Thermo Fisher)
- C. FLANGE FACE FINISH
  - RF: ASME B16.5 raised face / BS EN 1092 type B
  - RJ: ASME B16.5 ring joint
  - X: Other flange face finish
  (Note: consult Thermo Fisher)
- D. TEMPERATURE RATING
  - S: -50°C to +200°C (-58°F to +392°F)
  - T: -200°C to +50°C (-328°F to +122°F)
- E. VENT VALVES
  - 1: Single vent valve
  - 2: Dual vent valve

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