

Orifice Plate Assembly with RTJ Holder

Introduction

The **Orifice Plate Assembly with RTJ Holder (ARO-OPA-RTJ)** by Arrotop is engineered for accurate fluid flow measurement in high-pressure and high-temperature applications. This assembly integrates an orifice plate with a Ring Type Joint (RTJ) holder ring that serves as both a support for the orifice plate and a gasket to prevent leakage, making it ideal for demanding industrial environments.

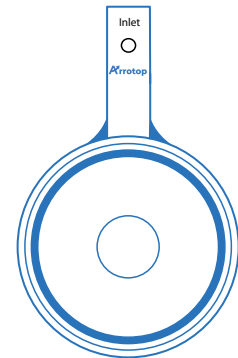
Product Overview



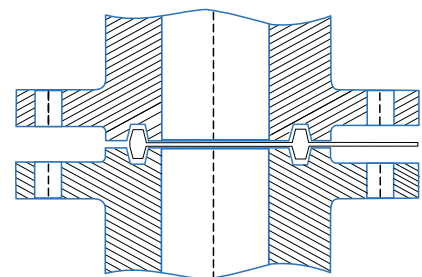
Designed to comply with international standards like ISO 5167-2 and ASME MFC-3M, the **ARO-OPA-RTJ** series ensures precise differential pressure measurement and high-quality orifice tapplings. It is suitable for various industrial applications, including oil and gas, chemical processing, and power generation. The assembly is available with multiple orifice plate designs to accommodate different measurement requirements.

Technical Specifications

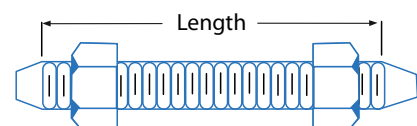
Model Number	ARO-OPA-IPA
Orifice Plate Types	Concentric Square Edge, Quadrant Edge, Eccentric, Conical Entrance, Segmental
Standards	ISO 5167-2, AGA 3, ASME MFC-3M, JIS Z 8762, BS 1042
Pressure Classes	600, 900, 1500, 2500, 4500
Flanged Rating	ANSI B16.36, ISO 5167-2, ASME MFC-3M, API, JPI
Size Range	DN15 (1/2") to DN1200 (48")
Plate Thickness	3.18 mm, 6.35 mm, 9.52 mm, 12.7 mm
Holder Width	27.50 mm, 28.70 mm, 30.50 mm, 31.80 mm
Materials	SS 304/L, SS 316/L, Duplex, Super Duplex, Monel, Hastelloy, Inconel, other alloys on request
Pressure Taps	Flange Taps, Corner Taps, Radius Taps
Markings	Upstream, " bore type, size, line size, tag number, flange rating
Flow Turndown	Typically >10:1
Accuracy	±1% with calibrated spool, typically ±2 to 3%



RTJ Holder



RTJ Flange



Stud Bolt

Advantages

- ➡ High Accuracy
- ➡ Robust Construction
- ➡ Versatility
- ➡ Efficient Sealing
- ➡ Ease of Installation
- ➡ Low Maintenance
- ➡ Customizable
- ➡ Noise Reduction

Applications

- ➡ Chemical Processing
- ➡ Oil and Gas
- ➡ Water Treatment
- ➡ Power Generation
- ➡ HVAC Systems
- ➡ Food and Beverage
- ➡ Pharmaceutical
- ➡ Marine and Shipbuilding
- ➡ Automotive
- ➡ Mining

Dimensional Details

Holder Type : Available in oval or octagonal shapes for compatibility with RTJ flanges.

Bore Diameter : Sized to match the internal diameter of the pipe to ensure precise measurement.

Flange Thickness : Determined by the pressure class and line size, compliant with ANSI and ISO standards.

Installation and Maintenance

Installation : Proper alignment and installation are crucial to achieve accurate measurement and prevent leaks. Align the orifice plate accurately with the pipe axis according to RTJ flange standards.

Maintenance : Regular inspection and maintenance are recommended to ensure continued performance. Check for wear, proper alignment, and sealing integrity periodically.

Conclusion

The **Orifice Plate Assembly with RTJ Holder (ARO-OPA-RTJ)** series by Arrotop provides a robust, accurate, and reliable solution for fluid flow measurement in challenging high-pressure and high-temperature environments, meeting a wide range of industrial needs.

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