

## Eccentric Orifice Plate

### Introduction

The **Arrotop Eccentric Orifice Plate (Model: ARO-EP-002)** is a premium flow measurement device engineered for optimal performance in challenging fluid conditions. Its unique off-center hole design is ideal for applications involving fluids with suspended particles, slurries, or high-viscosity materials. This design minimizes clogging, ensuring accurate and reliable flow measurement in diverse industrial environments.

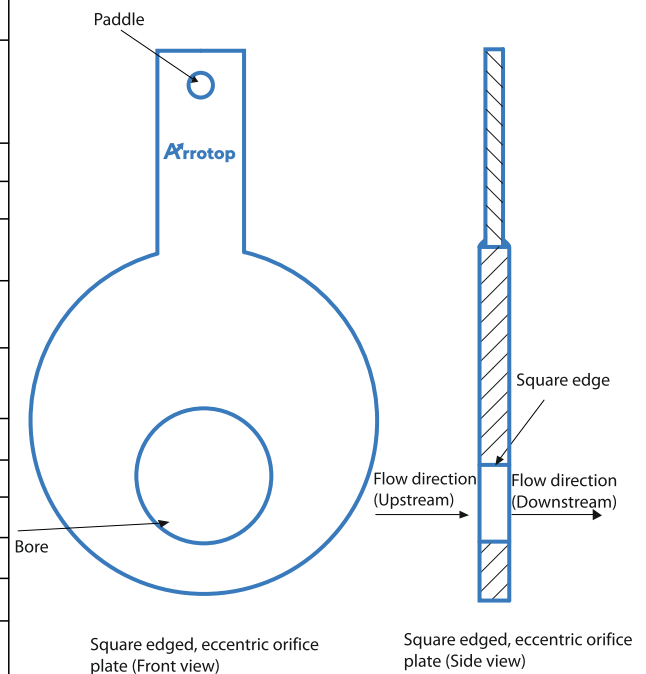
### Product Overview



The **Arrotop Eccentric Orifice Plate (Model: ARO-EP-002)** provides reliable and precise flow measurement for pipelines handling fluids with particulates or high viscosity. Its eccentric bore design, where the center of the orifice is offset from the pipe axis, allows particles and condensation to flow freely, reducing the risk of clogging and maintaining accurate measurements. This makes the ARO-EP-002 ideal for challenging applications in industries such as chemical processing, oil and gas, and water treatment. Constructed from high-quality materials, it is available in various sizes and can be customized with specialized coatings to meet specific operational requirements, ensuring durability and long-term performance.

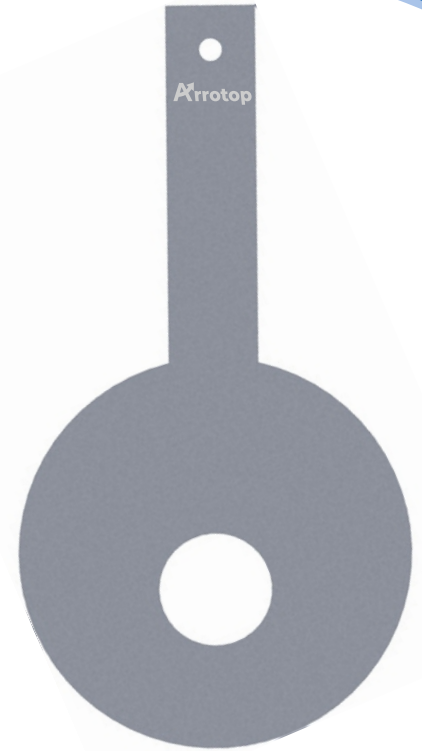
### Technical Specifications

Model Number	ARO-EP-002
Material	SS 304/L, 316/L, Duplex, Super Duplex, Hastelloy, Carbon Steel, Monel, Inconel, PP, PVC, PTFE-coated, Stellite-coated (special alloys on request)
Sizes	0.5" to 24" (up to 48" on request)
Beta Ratio	0.2 to 0.75
Thickness	3.18 mm, 6.35 mm, 9.52 mm, 12.7 mm (other on request)
Effective Range	Typically suitable for Reynolds number between $2 \times 10^4 \beta^2$ and $10^6 \beta$
Standards	ISO 5167, ASME B16.36, BS 1042, API 2530, AGA Report 3
Pipe Sizes	From 100mm to 1,000mm
Fluid Types	Liquid, Gas, Steam
Accuracy	Within 1% of the maximum flow rate
Repeatability	$\pm 0.1\%$ of the indicated flow rate
Tapping Methods	Flange Taps
Limit of use	Orifice Diameter(d) : 50mm, Pipe Diameter(D) : $100 \text{ mm} < D < 1,000 \text{ mm}$ , Beta Ratio( $\beta$ ) : 0.45 to 0.85



## Sizes and Dimensions

DN (Nominal Diameter)	Orifice Diameter (mm)	Plate Thickness (mm)
DN15 (0.5")	15	3.18
DN25 (1")	25	3.18
DN50 (2")	50	6.35
DN100 (4")	100	6.35
Dn150 (6")	150	9.52
DN200 (8")	200	9.52
DN300 (12")	300	12.7
DN400 (16")	400	12.7
DN600 (24")	600	12.7



## Advantages

- ➡ High Accuracy
- ➡ Versatility
- ➡ Durability
- ➡ Ease of Installation
- ➡ Low Maintenance
- ➡ Cost-Effective
- ➡ Wide Range of Sizes
- ➡ Customizable
- ➡ Robust Construction
- ➡ Reliable Performance

## Applications

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

## Additional Features

- ▶ **Customization** : Available in various materials and sizes to meet specific application requirements.
- ▶ **Accessories** : Gaskets, bolts, and nuts available upon request.
- ▶ **Compliance** : Meets international standards ensuring reliable and accurate performance.
- ▶ **Installation Support** : Technical support available for installation and maintenance.
- ▶ **Calibration Services** : Optional calibration services to ensure precise measurements.
- ▶ **Documentation** : Comprehensive documentation provided for installation, operation, and maintenance.

## Conclusion

**Arrotop's Eccentric Orifice Plates** offer a reliable and precise solution for fluid flow measurement, especially for fluids with particulates. Our commitment to quality and innovation ensures superior performance and longevity. Choose Arrotop for your orifice plate requirements and experience our dedication to excellence.

## Contact Us



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