

Multi-Hole

Introduction

The **Arrotop Multi-Hole Orifice Plate** is designed with multiple holes to enhance flow conditioning, reduce noise, and minimize pressure drop. This design is particularly effective in applications with limited straight lengths available upstream and downstream of the orifice, ensuring accurate flow measurement with minimal disturbance. Ideal for use in gas, liquid, and steam applications, the multi-hole orifice plate provides reliable performance in various challenging fluid measurement scenarios.

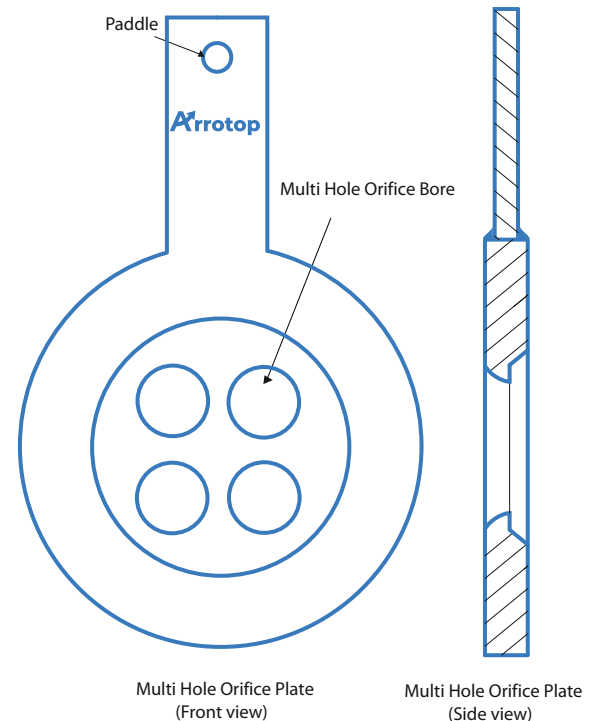
Product Data



The **Arrotop Multi-Hole Orifice Plate (Model: ARO-MP-005)** features multiple symmetrically placed holes relative to the plate's center. This configuration enhances flow uniformity and reduces turbulence, making it suitable for installations with space constraints. The design ensures effective performance with only 2D upstream and downstream straight lengths, providing improved flow conditioning and reducing noise and pressure drop.

Technical Specifications

Model Number	ARO-MP-005
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 requests)
Beta Ratio	0.2 to 0.75
Thickness	3.18 mm, 6.35 mm, 9.52 mm, 12.7 mm (other on request)
Standards	ISO 5167, ASME B16.36, BS 1042, API 2530, AGA Report 3
Fluid Types	Gas, Liquid and Steam Application
Accuracy	Within 1% to 2.5% of the maximum flow rate
Repeatability	± 0.1% of the indicated flow rate
Tapping Methods	Flange Taps or Radius Taps



Sizes and Dimensions

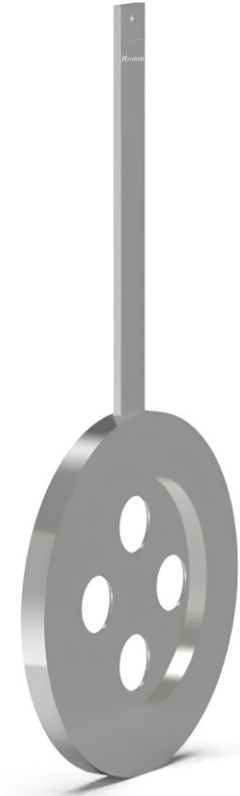
DN (Nominal Diameter)	Orifice Diameter (mm)	Plate Thickness (mm)
DN15 (0.5")	15	3.18
DN25 (1")	25	3.18
DN50 (2")	50	6.35
DN100 (4")	100	6.35
Dn150 (6")	150	9.52
DN200 (8")	200	9.52
DN300 (12")	300	12.7
DN400 (16")	400	12.7
DN600 (24")	600	12.7

Advantages

- ➡ Improvement Flow Conditioning
- ➡ Noise Reduction
- ➡ Reduced Pressure Drop
- ➡ Versatility
- ➡ Durability
- ➡ Easy Installation
- ➡ Low Maintenance

Applications

- ➡ Chemical Processing
- ➡ Oil and Gas
- ➡ Power Generation
- ➡ Water Treatment
- ➡ Food And Beverage
- ➡ Pharmaceutical



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 **Multi-Hole Orifice Plates** provide a precise and reliable solution for fluid flow measurement, particularly in applications requiring noise reduction and minimal pressure drop. With a commitment to quality and innovation, Arrotop delivers products that ensure superior performance and longevity. Choose Arrotop for your orifice plate requirements and experience our dedication to excellence.

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