

## Square-Edged Orifice Plate

### Introduction

The **Arrotop Square-Edged Orifice Plate (Model Number: ARO-SEOP-008)** is a precision-engineered device widely utilized for fluid flow measurement. Renowned for its simple structure, high accuracy, and ease of installation, this orifice plate is ideal for measuring flow rates in clean liquids, gases, and steam. It adheres to stringent dimensional, surface roughness, and flatness standards, ensuring reliable performance in various industrial applications.

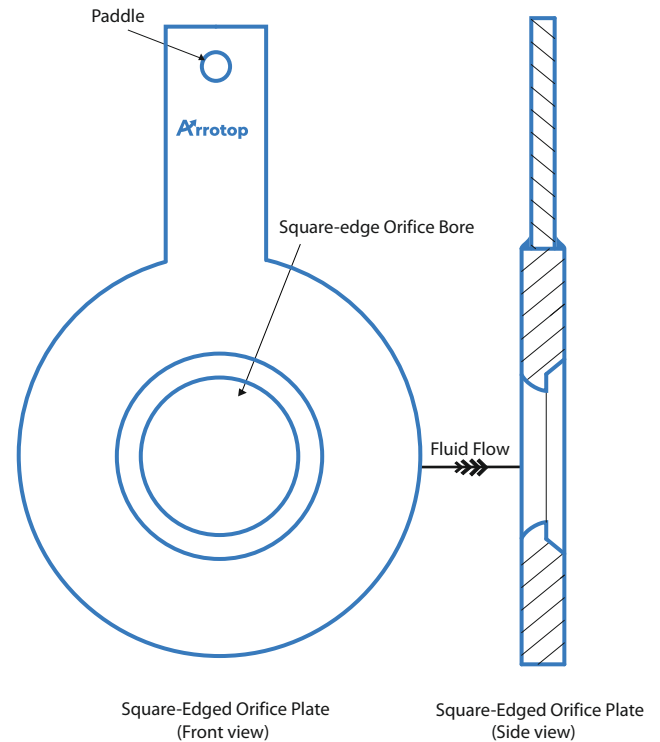
### Product Overview



Arrotop's **Square-Edged Orifice Plates** are designed for versatility and precision. They provide accurate measurement of flow rates by creating a differential pressure drop across the orifice. This design is particularly suitable for general applications involving clean fluids, offering excellent repeatability and accuracy. The square-edged orifice is characterized by a sharp edge that appears identical from either direction, making it ideal for bi-directional flow measurement.

### Technical Specifications

Model Number	ARO-SEOP-008
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	2" 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)
Standards	ISO 5167, ASME B16.36, BS 1042, API 2530, AGA Report 3
Reynolds No. Range	Effective from 10,000 to $10^7$
Accuracy	$\pm 0.5\%$ of full-scale flow rate
Repeatability	$\pm 0.1\%$ of flow rate
Tapping Methods	Flange Taps, Corner Taps



## Size Chart

DN (Nominal Diameter)	Orifice Diameter (mm)	Plate Thickness (mm)
DN50 (2")	50	6.35
DN100 (4")	100	6.35
Dn150 (6")	150	9.52
DN200 (8")	200	9.52
DN250 (10")	250	12.7
DN300 (12")	300	12.7
DN350 (14")	350	12.7
DN400 (16")	400	12.7
DN450 (18")	450	12.7
DN500 (20")	500	12.7
DN600 (24")	600	12.7

## Advantages

- ➡ High Accuracy
- ➡ Robust Construction
- ➡ Versatility
- ➡ Simplicity
- ➡ Bi-Directional Measurement
- ➡ Low Maintenance
- ➡ Customizable

## Applications

- ➡ Energy Generation
- ➡ Chemical Processing
- ➡ Oil and Gas
- ➡ Water Treatment
- ➡ Food And Beverage
- ➡ HVAC System
- ➡ Pharmaceutical
- ➡ Marine and Shipbuilding
- ➡ Automotive
- ➡ Mining



## Conclusion

Arrotop is committed to providing high-quality flow measurement solutions.

Our **Square-Edged Orifice Plates** exemplify our dedication to precision and performance, ensuring accurate and reliable results in demanding environments.

## Contact Us



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