

[See all 96 Products in Family](#)

## 1000 $\mu$ m Aperture Diameter, 1" OD Mounted, Precision Pinhole



Unmounted Precision Pinhole



Stock #90-310 **NEW** 4 In Stock

⊖ 1 ⊕ €89.<sup>00</sup>

**ADD TO CART**

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | €89,00 each                   |
| Qty 6+         | €79,30 each                   |
| Need More?     | <a href="#">Request Quote</a> |

ⓘ Prices shown are exclusive of VAT/local taxes

### Product Downloads

### General

Mounted **Type:**

### Physical & Mechanical Properties

25.4 +0.000/-0.05 **Outer Diameter (mm):**

|                                 |                                      |
|---------------------------------|--------------------------------------|
| Stainless Steel                 | <b>Construction:</b>                 |
| 1000                            | <b>Fixed Aperture Diameter (µm):</b> |
| 0.03 Nominal                    | <b>Thickness (mm):</b>               |
| ±5                              | <b>Aperture Tolerance (µm):</b>      |
| ±125                            | <b>Aperture Centration (µm):</b>     |
| <b>Threading &amp; Mounting</b> |                                      |
| 2.54                            | <b>Mount Thickness (mm):</b>         |
| <b>Regulatory Compliance</b>    |                                      |
| <a href="#">Compliant</a>       | <b>RoHS 2015:</b>                    |
| <a href="#">View</a>            | <b>Certificate of Conformance:</b>   |
| <a href="#">Compliant</a>       | <b>Reach 247:</b>                    |

## Product Details

- Available in Aperture Mounts for a Secure Mechanical Support
- Pinhole Sized Ranging from 1 to 1,000 Microns
- [High Power Apertures](#) Available

### Unmounted Precision Pinholes

Precision Pinholes are high quality apertures centered to  $\pm 0.002"$  (50 microns). They are constructed of stainless steel and are  $3/8"$  (9.5mm) in diameter. Smaller diameter pinholes will reduce energy throughput, while larger diameter pinholes will pass more spatial noise. Precision pinholes have sizes ranging from 1 to 1,000 microns. Typical applications include leak detection, aerosol studies, holography, fiber optics guides, spatial filtering, research, and more.

Use the [Precision Pinhole Mount](#) to integrate unmounted pinholes into a variety of mechanical components easily.

### Mounted Precision Pinholes

Precision Pinholes are available in aperture mounts for secure mechanical support. The mounts also fit into various optical assemblies. Each 9.5mm diameter pinhole is sealed within a 25mm diameter black-anodized aluminum mount. The mount is clearly labeled with a pinhole aperture diameter for easy identification.

**Note:** Aperture Centering to Mount  $\pm 125$  microns.

Edmund Optics offers a wide selection of precision pinholes for leak detection, aerosol studies, holography, fiber optic guides, spatial filtering, research, and more. These pinholes are available in a range of diameters and are ideal for controlling light propagation. Each pinhole is manufactured using high-accuracy techniques, providing consistent circular aperture geometry and high edge quality. Available in both mounted and unmounted formats, these pinholes support a variety of optical setups, from experimental labs to industrial environments.

## Technical Information

