

# Precision Pinholes

## Optics

Lenses

Mirrors & Beamsplitters

Prisms & Polarizers

Filters

Pinholes

- **Designed for general laboratory use**
- **Range of pinhole sizes available**



## Opto-mechanics

Breadboards & Rails

Mounting Hardware

Mirror & Component Mounts

Manual Micro Positioners

Motorized Positioners

Precision Pinholes can be used in a wide variety of optical applications, including spatial filtering, creating point light sources, photography, and image analysis and processing.

Ealing Precision Pinholes are available with diameters from 1 to 1000  $\mu\text{m}$ . Each pinhole aperture is round, calibrated, and free from edge distortion. The aperture is centered to  $\pm 0.13$  mm within a stainless steel 302 series disc 9.5 mm diameter.

Pinholes are supplied mounted in 16 mm and 25 mm black, anodized mounts.

### Specifications

**Pinhole Thickness:** 13  $\mu\text{m}$   $\pm$  2.5  $\mu\text{m}$

**Pinhole Centering in Mount:**  $\pm 0.2$  mm

**Mount Diameter:**

16 mm  $\pm$  0.13 mm

25 mm  $\pm$  0.13 mm

**Mount Thickness:**

16 mm: 2.6 mm  $\pm$  0.25 mm

25 mm: 1.2 mm  $\pm$  0.25 mm

### Precision Pinholes

Diameter ( $\mu\text{m}$ )	Tolerance ( $\mu\text{m}$ )	16 mm Diameter		25 mm Diameter	
		Catalog Number	Price US	Catalog Number	Price US
1.0	$\pm 0.50$	43-5008	\$99.00	43-5172	\$99.00
2.5	$\pm 0.75$	43-5016	\$79.00	43-5180	\$79.00
5.0	$\pm 1$	43-5024	\$65.00	43-5198	\$65.00
10.0	$\pm 1$	43-5032	\$54.00	43-5206	\$54.00
12.5	$\pm 1$	43-5040	\$54.00	43-5214	\$54.00
15.0	$\pm 2$	43-5057	\$49.00	43-5222	\$49.00
17.5	$\pm 2$	43-5065	\$49.00	43-5230	\$49.00
25.0	$\pm 3$	43-5073	\$49.00	43-5248	\$49.00
35.0	$\pm 4$	43-5081	\$49.00	43-5255	\$49.00
50.0	$\pm 5$	43-5099	\$49.00	43-5263	\$49.00
70.0	$\pm 7$	43-5107	\$49.00	43-5271	\$49.00
100.0	$\pm 10$	43-5115	\$49.00	43-5289	\$49.00
200.0	$\pm 20$	43-5123	\$49.00	43-5297	\$49.00
400.0	$\pm 40$	43-5131	\$49.00	43-5305	\$49.00
600.0	$\pm 60$	43-5149	\$49.00	43-5313	\$49.00
800.0	$\pm 80$	43-5156	\$49.00	43-5321	\$49.00
1000.0	$\pm 100$	43-5164	\$49.00	43-5339	\$49.00

### Precision Pinhole Kits

Mount Diameter (mm)	Pinhole Sizes ( $\mu\text{m}$ )	Catalog Number	Price US
16	5, 10, 25, 35, 50, 100	43-6691	\$315.00
25	5, 10, 25, 35, 50, 100	43-6709	\$315.00