

Iris diaphragm holders that can change the aperture size without changing the center of the aperture. Can be used to change the depth of field in imaging systems. And passing necessary laser beam while blocking optical feedback or stray light in laser experiments.

- You can change the aperture diameter by loosening the adjustment lever and moving it from side to side.
- The scale provides an estimate on the aperture diameter.



### Guide

- ▶ Unmounted iris diaphragms (IDC/IH) can be purchased. [Reference](#) C064
- ▶ Post length can be changed by specifying the post length when you place an order. We may charge the difference in price depending on the length. Contact our Sales Division for more information.

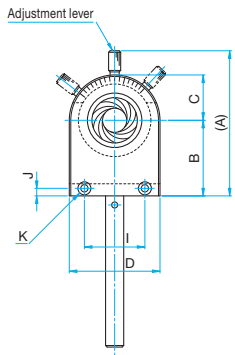
### Attention

- ▶ Take care when adjusting the lever and handling the iris diaphragms.
- ▶ These parts are not recommended for high power lasers. The heat from the lasers may cause the blades to seize. (recommended max power: CW 500mW or less, pulse 30mJ or less).
- ▶ The scale is only a rough guide. There is considerable backlash due to the structure of the iris diaphragm. There may be a difference between the hole diameter of iris diaphragm and the scale.
- ▶ The iris diaphragm is a very delicate mechanism. Do not push or pull on the blades.

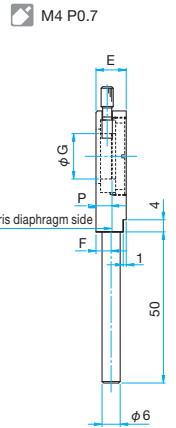


## Outline Drawing

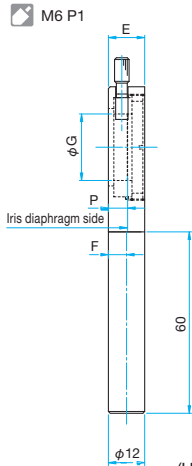
### IH-R



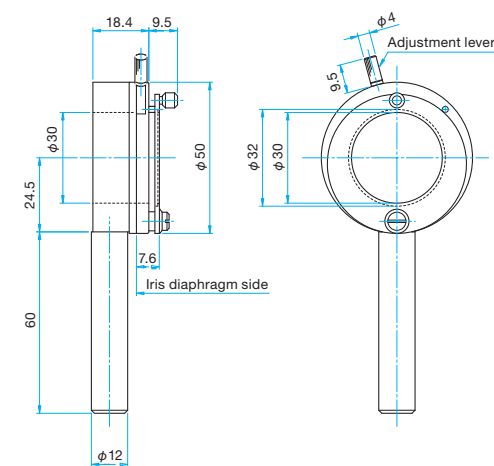
### IH-08R/12R/15R



### IH-22R/36R/50R



### IH-30 M6 P1



(Units: mm)

| Part Number | A    | B  | C    | D  | E  | F   | MAX Aperture Diameter $\phi G$ | I  | J   | K   | P   |
|-------------|------|----|------|----|----|-----|--------------------------------|----|-----|---|-----|
| IH-08R      | 38.5 | 20 | 10   | 20 | 10 | 4.7 | $\phi 8$                       | 15 | 2.5 | 2- $\phi 2.4$ mounting hole, $\phi 4.2$ counterbore | 4.9 |
| IH-12R      | 41   | 20 | 12.5 | 25 | 10 | 5.3 | $\phi 12$                      | 20 | 2.5 | 2- $\phi 2.4$ mounting hole, $\phi 4.2$ counterbore | 5.2 |
| IH-15R      | 48   | 25 | 15   | 30 | 10 | 5   | $\phi 15$                      | 20 | 2.5 | 2- $\phi 2.4$ mounting hole, $\phi 4.2$ counterbore | 5.2 |
| IH-22R      | 57.5 | 30 | 19   | 38 | 12 | 6   | $\phi 22$                      | 28 | 10  | 2- $\phi 4.5$ mounting hole, $\phi 8$ counterbore   | 6.2 |
| IH-36R      | 75   | 35 | 30   | 60 | 12 | 6.4 | $\phi 36$                      | 44 | 10  | 2- $\phi 4.5$ mounting hole, $\phi 8$ counterbore   | 6.9 |
| IH-50R      | 95   | 45 | 40   | 80 | 14 | 7.4 | $\phi 50$                      | 60 | 10  | 2- $\phi 4.5$ mounting hole, $\phi 8$ counterbore   | 7.9 |

| $\phi 8 - \phi 50$ |                    | Primary material: Aluminum<br>Finish: Black Anodized |            |             |
|--------------------|--------------------|--|------------|-------------|
| Part Number        | Options specified* | Aperture Diameter                                    |            | Weight [kg] |
|                    |                    | MAX [mm]   | MIN [mm]   |             |
| IH-08R             | N                  | $\phi 8$   | $\phi 0.7$ | 0.03        |
| IH-12R             | N                  | $\phi 12$  | $\phi 0.8$ | 0.03        |
| IH-15R             | N                  | $\phi 15$  | $\phi 0.9$ | 0.09        |
| IH-22R             | N/EE/UU            | $\phi 22$  | $\phi 0.9$ | 0.10        |
| IH-36R             | N/EE/UU            | $\phi 36$  | $\phi 1.3$ | 0.15        |
| IH-50R             | N/EE/UU            | $\phi 50$  | $\phi 1.5$ | 0.20        |

| $\phi 30$   |                   | Primary material: Aluminum<br>Finish: Black Anodized |          |             |
|-------------|-------------------|--|----------|-------------|
| Part Number | Aperture Diameter | Aperture Diameter                                    |          | Weight [kg] |
|             |                   | MAX [mm]   | MIN [mm] |             |
| IH-30       | $\phi 30$         | $\phi 1$   |          | 0.12        |

\* For specifying options, please refer to "Conversion of Posts, Post Holders and Pedestal Bases of Holders". [Reference](#) C007