

SID-5714-ID-18 - Iris Diaphragm

The SID-5714 iris diaphragm was especially designed as a modular component which consists of a motorized stage and an iris diaphragm insert.

Motorized iris diaphragms are used for example in the fields of opto-electronics, lasers and medical technology and create the possibility to fully remote control optical setups. This comes in handy especially in confined spaces like chambers, cabinets, enclosures or simply when automation is required. These precision opto-mechanical devices allow perfect dosing of the amount of light and the exact control of the projection and the size of the illuminated surface. Due to the used high quality materials the iris diaphragms keep their reliable functionality over many thousand open-close cycles, even in extreme conditions. The iris diaphragms can be optionally equipped with positioning sensors allowing for a closed-loop control of the aperture diameter. Furthermore, high and ultra-high vacuum compatible versions are also available as well as customized assemblies regarding aperture size, base materials and overall dimensions.
A modular iris diaphragm system with an iris diaphragm that offers a controllable opening in the range of 1.2 to 18 mm.

	Mechanical
Aperture [mm]	1.2 ... 18
Dimensions [mm]	57 x 19.9 x 57
Weight [g]	130
	Material
Base Material	Aluminum
	Closed-Loop
Opening Resolution [µm]	< 1
Opening Velocity [mm/s]	6
Uni-Directional Repeatability [µm]	20 (unidirectional)
	Options
Material Options	Aluminum as standard: Titanium base (-TI) and others on request
Vacuum Options	HV (1E-6 mbar); UHV (1E-11 mbar)

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