

Technical Information

No. FO 4993

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Substitutes: Edition --/--

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Mercury Short Arc Lamp

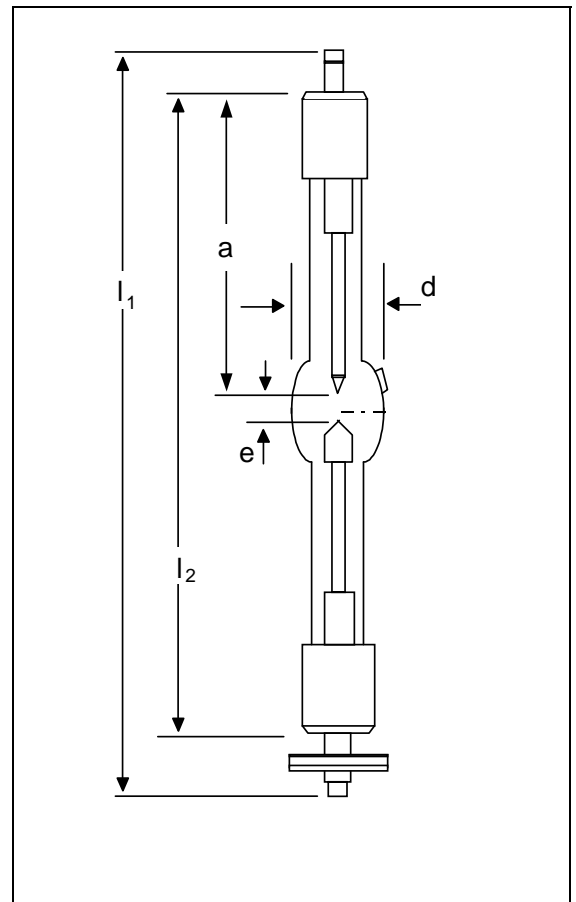
HBO[®] 450 W/GS

■ Product description

The OSRAM HBO[®] 450 W/GS belongs to the family of mercury short arc lamps, of which the discharge arc burns in an atmosphere of high pressure mercury vapour. The HBO[®] 450 W/GS is a direct current, UV-emitting lamp type, which is used in ASML PAS 2500/10-PEP; /30-PEP and /40-TEP illumination systems.

■ Technical Data

Order reference	HBO [®] 450 W/GS	
Rated lamp wattage	W	450
Lamp voltage	V	50
Operating current (=)	A	9
Luminous flux	lm	22.000
Lamp length overall l_1	mm	max. 150
Lamp length l_2	mm	max. 105
Bulb diameter	mm	22
LCL a	mm	53
Electrode gap e	mm	2.2
Average service life	h	
Bases	• Cathode: SFc 13-5/15 • Anode: SFc 13-5/15	



■ Lamp operation

Maximum base temperature allowed	°C	230
Cooling	Convection	
Burning position	vertical $\pm 15^\circ$, s 15; anode underneath	

■ Safety Instruction

Because their high luminous efficacy, the UV radiation which they emit and the high pressure within the lamp, HBO[®] lamps must be operated within enclosed, purpose-built housings. When a lamp breaks, mercury is released. Particular safety regulations must be paid attention (for details please request technical information sheet no. FO 4574).