

Technical Information

No. FO 4771

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Mercury Short Arc Lamp
for microlithography

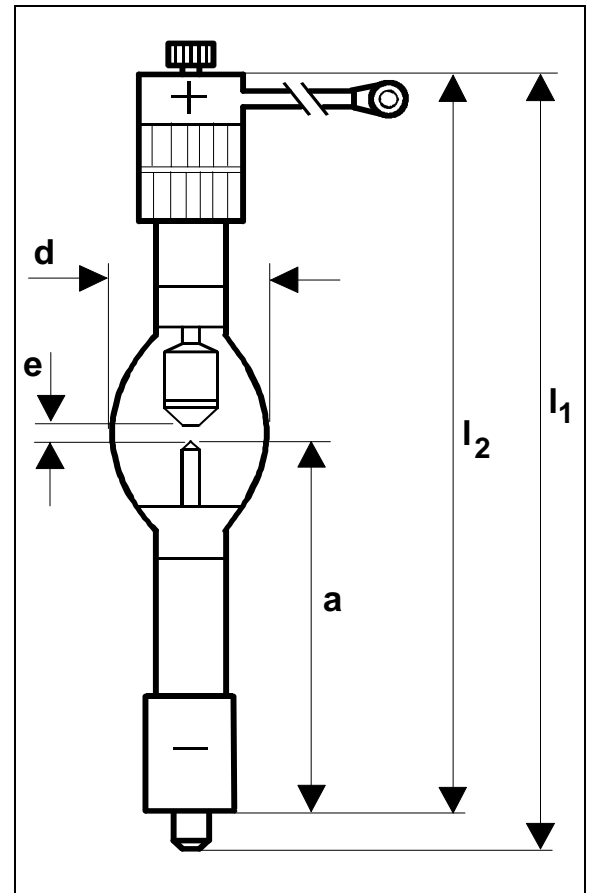
HBO[®] 2500 W/PIL

■ Product description

The OSRAM HBO[®] 2500 W/PIL is a direct current mercury short arc i-line lamp designed for the manufacture of integrated circuits (microlithography). This lamp type emits a very high radiant intensity in the ultraviolet and visible wavelength range, designed and optimized for use in ASML equipment (PAS 5500/200).

■ Technical data

Order reference	HBO [®]	2500 W/PIL
Rated lamp wattage	W	2,500
Rated lamp voltage	V	28
Rated lamp current (=)	A	90
Radiant intensity (wave length range 365 ± 2,5 nm)	mW/sr	8,200
Electrode gap e	mm	6.7
Lamp length l ₁	mm	max. 340
Lamp length l ₂	mm	312.5
Bulb diameter d	mm	62
LCL a	mm	149
Guaranteed life	h	1,500



Base	<ul style="list-style-type: none">• Cathode: SFc 30-6.5/50• Anode: SFa 30-6/50 with cooling fins and cable connection (M10)
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■ Lamp operation

Maximum permissible base temperature	°C	200
Cooling	Forced base cooling and cooling fins	
Burning position	Vertical, anode up	

■ Safety Instruction

Due to 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).

