

Technical Information

No. FO 5133

Edition: 01/03 - subject to change

Substitutes: - / -

Status: valid

Mercury Short Arc Lamp
for Microlithography

HBO[®] 3500 W/NIL

■ Product description

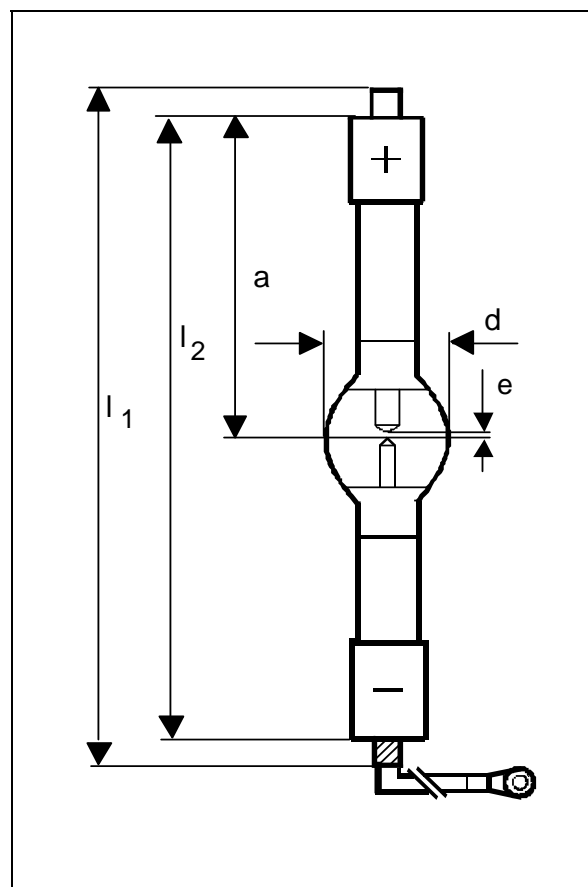
The OSRAM HBO[®] 3500 W/NIL is a direct current high intensity mercury short arc i-line lamp designed for the manufacture of integrated circuits (microlithography). This lamp type emits a very high radiant intensity in the ultraviolet and visible wavelength range and is optimized for use in Nikon equipment SF 100 and SF 110. Approved by Nikon.

■ Technical data

Order reference		HBO [®] 3500 W/NIL
Rated lamp wattage	W	3,500
Rated lamp voltage	V	27
Rated lamp current (=)	A	130
Ignition voltage (cold)	kV _S	20
Electrode gap e (cold)	mm	5.5
Lamp length (overall) l ₁	mm	max.382
Lamp length l ₂	mm	335/max.337
Bulb diameter d	mm	82
LCL a	mm	180
Guaranteed life	h	1,500

Base

- Cathode SFa33.5-12/50 with cable (M8)
- Anode SFc33.5-16/50 with thread (M16)



■ Lamp operation

Maximum base temperature	°C	200
Cooling		forced base cooling
Burning position		vertical, anode (+) upwards

■ 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).

The lamp contains overpressure even in the cold status – additional safety regulations, supplied with the lamps, have to be fulfilled.

