

## Product Information Bulletin

# HBO<sup>®</sup> 103 W/2

## Mercury Short Arc Lamp

- HBO lamps are a perfect point source of light providing radiant power in both the UV and visible range.
- 30% increase in luminous flux in the 450-500 nanometer wavelength range.
- Optimized arc stability.
- Extended service life.



### Specification Information

Lamp Ordering Abbreviation Code: **HBO 103 W/2**

#### Electrical data:

Rated lamp wattage	W	100
Initial voltage range	V	20 - 25
Rated lamp current (DC)	A	4.44
Ignition voltage (cold)	V	850

#### Photometric data: <sup>1</sup>

Initial luminous flux	lm	2,550 min.
Initial light intensity <sup>2</sup>	cd	270 min.
Initial average luminance	cd/cm <sup>2</sup>	150,000 min.

Note: Full luminous flux is generated after a run-up phase of approximately five minutes.

#### Geometrical data:

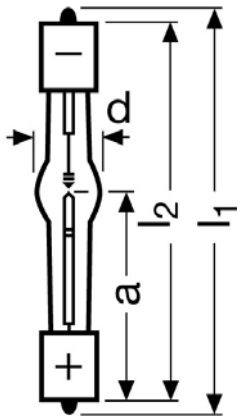
Lamp length L <sub>1</sub>	mm	max. 90
Lamp length L <sub>2</sub>	mm	max. 82
Bulb diameter d	mm	10
Distance a <sup>3</sup>	mm	43.0 ± 1.5
Arc length	mm	0.60

#### Other data:

Average service life <sup>4</sup>	Hrs	300
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#### Lamp operation:

Maximum permissible base temperature	230 °C
Cooling	Convection
Operating position	s90, anode down



1. At rated power if not otherwise specified; data pertains to both vertical & horizontal operation.
2. Light intensity in the plane containing anode tip and vertical to lamp axis.
3. 'Distance a' specifies the position of the anode tip referring to reference plane at room temperature.
4. Operation cycle: 2 hours on, 2 hours off.

### Application Information

#### Applications

- UV light curing
- Fluorescence microscopy
- Photo-polymerization

#### WARNING

This lamp emits a high level of UV radiation and operates at high internal pressure with high luminance. It may only be operated in enclosed lamp casings. Always use the safety boxes supplied when handling this lamp.

#### Disposal

When disposing of spent lamps, always consult federal, state, local and provincial hazardous waste disposal rules and regulations to ensure proper disposal.

## Ordering Information

Lamp Description	NAED Code	Standard Case Quantity
HBO 103 W/2	69182	1/case

For Orders and General Information

**In The United States:**

**OSRAM SYLVANIA**

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