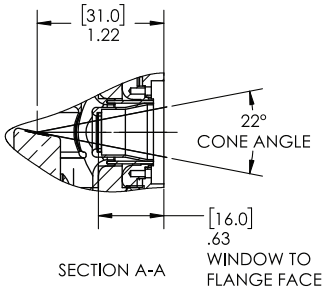
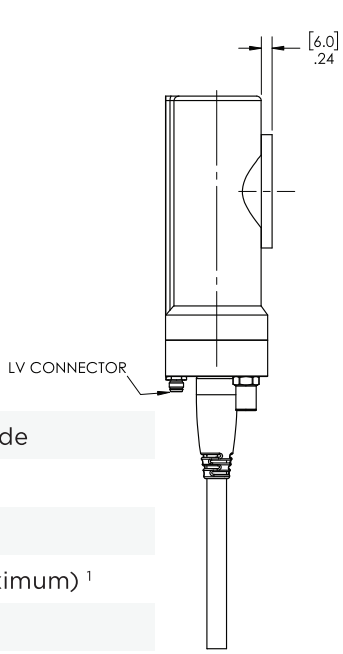
MICRO X-RAY INC.

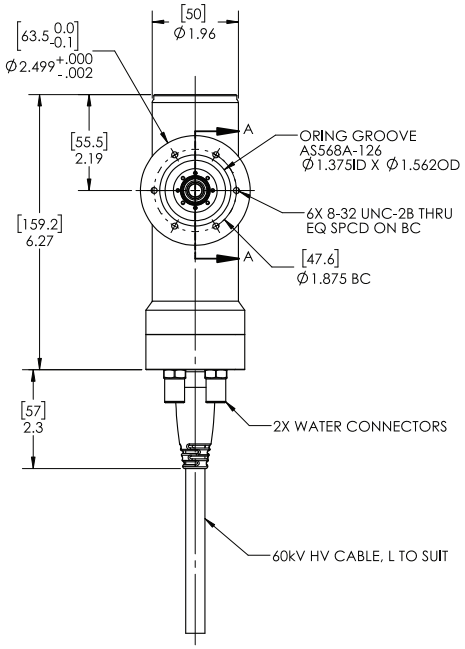
SILICON ENCAPSULATED X-RAY TUBE WITH INTEGRATED WATER COOLING

Our SeeRay series is ideally suited for end users wanting higher power requirements but wanting a smaller package both in terms of dimensions and weight. The tube is fully radiation shielded, high voltage isolated and includes a high voltage cable and low voltage cable. The design includes direct anode cooling for fast stabilization time.

Picture shows our unshielded tube







SPECIFICATIONS

Polarity	Grounded Cathode
Flange Type	(6) 8-32 thread
High Voltage Range	4-60 kV [1]
Anode Current	1.5mA (3mA maximum) [1]
Continuous Rating	50 W, 100 W [1]
Focal Spot	50 µm, 100 µm
Filament Current, max.	1.7 A
Filament Voltage, (nominal)	2.5 V
Flow Rate - Water	0.79 gallon/min (3 liters/min)
Inlet Water Temperature, max.	21°C
Stabilization Time	< 5 minutes
Weight	3.5 lbs (1.59 kg)
Inherent Filtration	0.005 inch Be
Target Materials	Mo, W, Rh, Cr, Ag, Cu, Co Cu/Diamond, W/Diamond available for higher power loading characteristics
Target Angle	20°
Radiation Coverage	26°
Radiation Leakage	<2 µSv/hr @ 50 mm (60 kV, 1 mA)

[1] Interrelationship between voltage, current and power will affect specs

GENERAL

Control of high voltage and filament current, as well as the design of the cooling system and the radiation protection, are the responsibility of the customer. Careful selection of power supply should ensure that the X-Ray tube will be protected against overcurrent and overvoltage. Otherwise the tube and/or the radiation protection may be damaged and become a hazard.

RADIATION PROTECTION

When installing the X-ray tube assembly into X-ray equipment and/or operating X-ray equipment, the responsibility for radiation protection from the X-ray window is with the user. Compliance with local regulatory requirements and limit values must be assured.