SEIFERT X-ray Tubehousing

ISOVOLT 160 M2 / 0.4-0.4

Application

The application of this tube is recommended for all cases where only a 0.4 focal spot can be used.

In these cases the two identical small focal spots could contribute to an extended lifetime.

The main application is therefore the sophisticated radioscopic inspection.

Features

- Direct radiating tube with double focus, unipolar, grounded anode, water cooled
- Metal-ceramic tube with oblique anode and beryllium window
- Compatible with X-ray equipment of the ISOVOLT series
- Produced under ISO 9001 certified quality management system

Options

- Quick-lock cable flange
- Centering and collimator attachment with laser centering device or telescopic rod
- Tube yokes
- Beam shutters
- Motorized limiting diaphragms

GE imagination at work

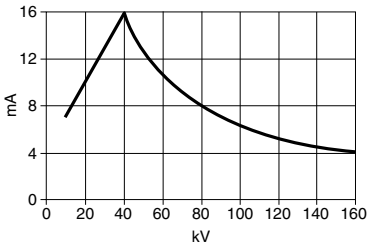
Dose Rate within the Central Beam

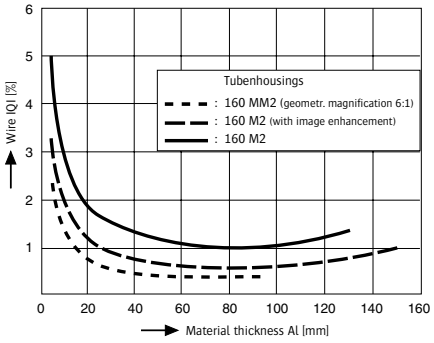
The generation of radiation in an X-ray tube solely depends on the operation values, not on the make.

The dose rate relevant in practice and suitable for calculations of radiation protection values is defined by national standards; thus the dose rate of the tubehousing ISOVOLT 160 M2/0.4-0.4, measured at a distance of 1 m from the focal spot, amounts to 1.62 Sv/h at maximum tube voltage and maximum anode dissipation.

This value must not be used to assess biological effects.

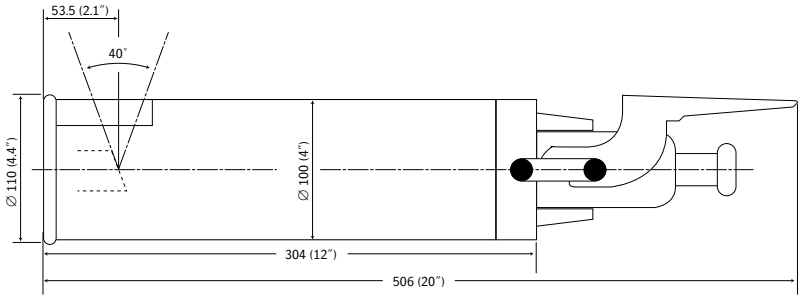
The dose rate of the leakage radiation is < 2.5 mSv/h (250 mrem/h).





Technical Data

Maximum tube voltage	160 kV	
	Focal spot 1	Focal spot 2
Maximum anode dissipation	640 W	640 W
Tube current at max. tube voltage	4 mA	4 mA
Focal spot size (EN 12 543)	1.00 mm (~ 0.4 IEC 336)	1.00 mm (~ 0.4 IEC 336)
Emergent beam angle	40°	
Inherent filtration	1 mm Be	
High voltage connection	Plug socket for rubber cone plug R24 with optional quick-lock cable flange	
Cooling water flow rate	min. 4 l/min	
Cooling water temperature	max. 40° C	
Cooling water pressure	max. 6 bar	
Weight (with optional cable quick-lock)	8.5 kg (18.7 lbs)	
Dimensions	see drawing	



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