

SEIFERT X-ray Tubehousing

ISOVOLT 320 M2 / 4.5-13



Application

Radiographic and radiosopic inspections
of welds and castings.

Radiometric and dosimetry applications

Features

- Direct radiating tube with double focus, bipolar, oil-cooled anode, axial high voltage connections
- 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

- 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

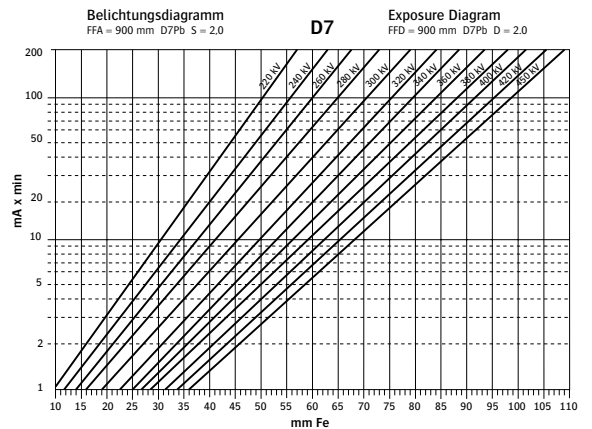
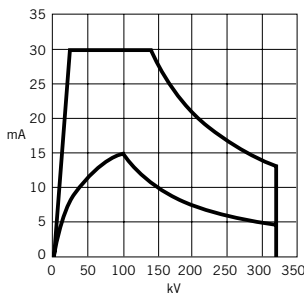
The generation of radiation in an X-ray tube solely depends on the operation values, not on the make.

The dose rate relevant in practice and suitable for calculations of radiation pro-

tection values is defined by national standards; thus the dose rate of the tubehousing ISOVOLT 320 M2/4.5-13, measured at a distance of 1 m from the focal spot, amounts to 26.44 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 < 10 mSv/h (1 rem/h).



Technical Data

Maximum tube voltage	320 kV	
	Large focal spot	Small focal spot
Maximum anode dissipation	4200 W	1500 W
Tube current at max. tube voltage	13 mA	4.5 mA
Focal spot size (EN 12 543)	5.50 mm (~ 4.0 IEC 336)	3.00 mm (~ 1.5 IEC 336)
Emergent beam angle	40°	
Inherent filtration	3 mm Be	
High voltage connection	2 Plug sockets for rubber cone plugs R24 with optional quick-lock cable flanges	
Cooling oil flow rate	min. 14 l/min	
Cooling oil temperature	max. 50° C	
Cooling oil pressure	max. 7 bar	
Weight (with optional cable quick-lock)	35 kg (77 lbs)	
Dimensions	see drawing	

