

ISOVOLT X-ray Tubehousing

ISOVOLT 450M1/25-55



Application

Radiographic and radioscopic inspections of welds and castings.
Radiometric and dosimetry applications.

Features

- Direct radiating tube with double focus, bipolar, oil-cooled anode, axial high voltage connections with maintenance-free radial HV plugs
- 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
- Tube yokes



GE imagination at work

Technical Data

	Large focal spot	Small focal spot
Maximum tube voltage	450 kV	
Maximum anode dissipation	4500 W	1500 W
Tube current at max. tube voltage	10 mA	3.3 mA
Focal spot size (EN 12 543)	5.5 mm (~3.0 IEC 336)	2.5 mm (~1.2 IEC 336)
Emergent beam angle	40°	
Inherent filtration	7 mm Be + 2 mm Al (removable)	
High voltage connection	2 disk connections for 225 kV	
Cooling oil flow rate	min. 17 l/min	
Cooling oil temperature	max. 50° C (inlet)	
Cooling oil pressure	max. 9 bar	
Weight (with optional cable quick-lock)	90 kg (198 lbs)	
Dimensions	see drawing	

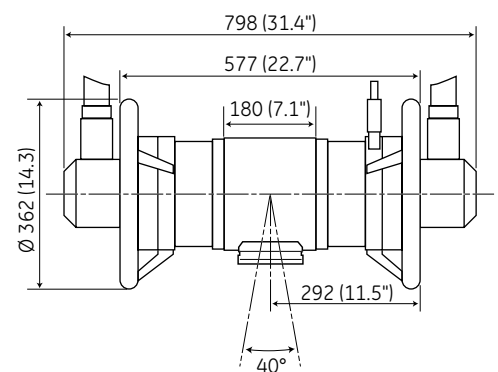
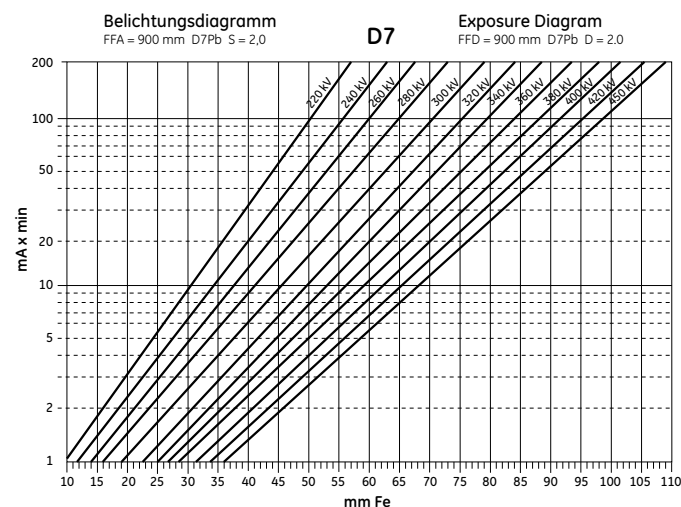
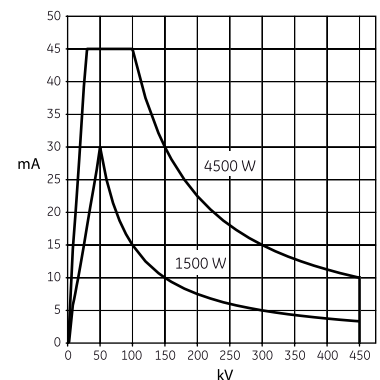
Dose Rate within the Central Beam

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 450M1/25-55,

measured at a distance of 1 m from the focal spot, amounts to 40 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.



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