

ISOVOLT X-ray Tubehousing

ISOVOLT 320 M2 / 0.4 - 1.0 HP



Application

Radiographic and radioscopic inspections of welds and castings.

Features

- Direct radiating tube with double focus, bipolar, oil-cooled anode, axial high voltage connections
- Metal-ceramic tube with tungsten 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 | 320 kV | |
| Maximum anode dissipation | 1800 W | 800 W |
| Tube current at max. tube voltage | 5.6 mA | 2.5 mA |
| Focal spot size (EN 12 543) | 1.0 mm | 0.4 mm *) |
| Emergent beam angle | 30° x 40° asymmetric (see drawing) | |
| Inherent filtration | 3 mm Be + 2 mm Al, removable | |
| High voltage connection | 2 Plug sockets for rubber cone plugs R24 | |
| Cooling oil flow rate | min. 14 l/min | |
| Cooling oil temperature | max. 50° C | |
| Cooling oil pressure | max. 6 bar | |
| Weight (with optional cable quick-lock) | 40 kg (88 lbs) | |
| Dimensions | see drawing | |

*) Deviation from EN12543-2: evaluation of the focal spot based on 25% threshold

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.

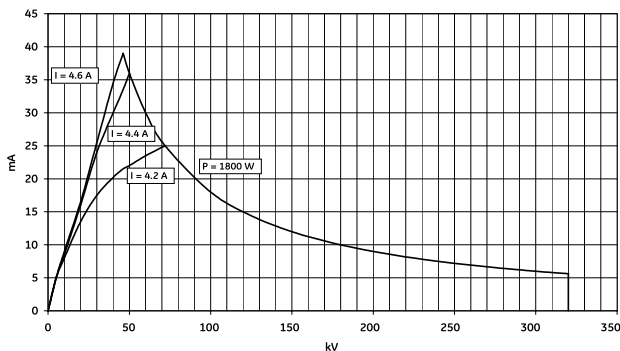
The dose rate relevant in practice and suitable for calculations of radiation protection values is defined by national standards; thus the dose rate of the tubehousing ISOVOLT 320 M2 /0.4 - 1.0 HP, measured at a distance of 1 m from

the focal spot, amounts to 11.39 Sv/h at maximum tube voltage and maximum anode dissipation.

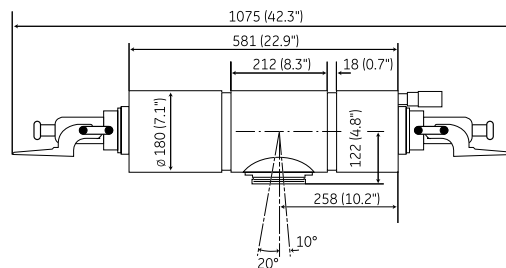
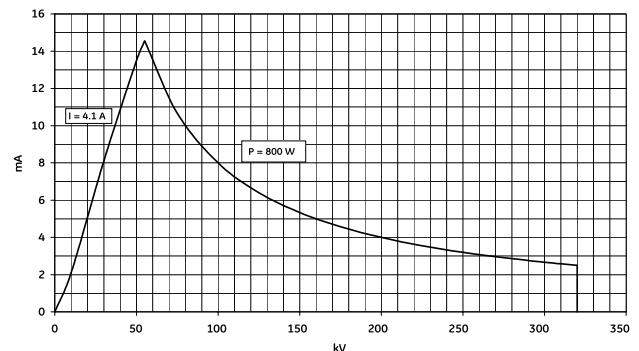
This value must not be used to assess biological effects.

The dose rate of the leakage radiation is < 5 mSv/h (0.5 rem/h), certified by PTB.

Focal Spot Size d = 1.0 mm



Focal Spot Size d = 0.4 mm



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GEIT-30169 EN (04/11)

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