

SEIFERT X-ray Tubehousing

ISOVOLT 420 / 5



Application

Preferably radioscopic inspections of welds and castings for a wall thickness of more than 20 mm Fe.

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

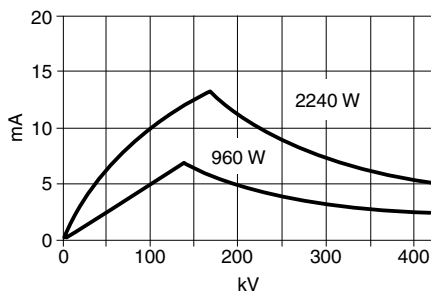
The generation of radiation in an X-ray tube solely depends on the operation values, not on the make.

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

protection values is defined by national standards; thus the dose rate of the tubehousing ISOVOLT 420/5, measured at a distance of 1 m from the focal spot, amounts to 17.7 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 | 420 kV | |
| | Large focal spot | Small focal spot |
| Maximum anode dissipation | 2240 W | 960 W |
| Tube current at max. tube voltage | 5.3 mA | 2.3 mA |
| Focal spot size (EN 12 543) | 3.60 mm (~ 1.5 IEC 336) | 1.90 mm (~ 0.8 IEC 336) |
| Emergent beam angle | 20° x 40° | |
| Inherent filtration | 7 mm Be | |
| High voltage connection | 2 disk connections for 225 kV | |
| Cooling oil flow rate | min. 17 l/min | |
| Cooling oil temperature | max. 50° C | |
| Cooling oil pressure | max. 7 bar | |
| Weight (with optional cable quick-lock) | 75 kg (165 lbs) | |
| Dimensions | see drawing | |

