

# PET- Cylinder Phantom

## Field of Application

Performance measurements according to NEMA-Standard NU 2-2007 for verification or for comparison of count rates of PET-Systems, like Ring-PET-Scanner or Coincidence Cameras.

## Product Specifications

- Phantom body with single segments that are screwed together by guiding rods
- Line source with application adapter and automatic valve, for filling with one-way syringes

## Product Description

The PET-Cylinder phantom is including the phantom body and the line source.

The phantom body is including 7 single cylinders made from polyethylene with 3 guiding borings each and the boring for positioning the line source. The single cylinders are pressed together according to size with threaded rods, also made from polyethylene.

## Specifications Phantom Body

Type of phantom:	PET Cylinder phantom
Material:	Polyethylene 0,96g/cm <sup>3</sup>
Measuring length:	700 mm
Length with add-on pieces:	760 mm
External diameter:	200 mm
Diameter of the meas. boring:	5 mm
Length of the meas. boring:	700 mm
Excenter of the meas. boring:	48 mm
Total weight of the phantom:	21 kg

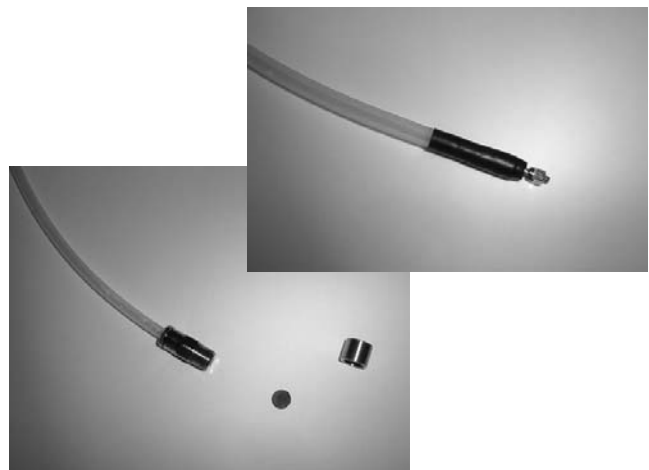
## Advantages

- ✓ High precision of the boring, being excentric over 700 mm in the phantom body
- ✓ Problem-free and air bubble-free filling of the line source

The line source is made from polyethylene-tube material with an application adapter for filling with a one-way syringe and at the other end with a semi-automatic valve device. The pricking-rubber joints can be replaced.

## Accessories

Set of pricking-rubber joints (20 pcs.)



*Application adapter and automatic valve. The pricking-rubber joints can easily be replaced.*