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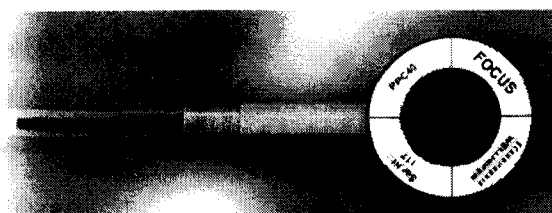
RPD Product Information

Item Number Description

300-740	Scanditronix / Wellhofer PPC40 Parallel Plate Chamber
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Technical description

Parallel Plate Chamber PPC40



Applications

- ☐ absolute dosimetry of electron, photon and proton beams in radiotherapy
- ☐ measurements in air, in solid or in water phantoms

Features

- ☐ air ionization chamber
- ☐ waterproof
- ☐ vented through waterproof sleeve
- ☐ fully guarded
- ☐ superior physics characteristics:
 - stabilization time after polarity change approx. 30 s
 - perturbation correction approx. equal to unity
 - polarity effect < 1 % for all usable energies, field sizes and depths at linear accelerators
- ☐ supplied with individual factory calibration certificate and user's guide

Material

- ☐ outer electrode
PMMA (1.18 g/cm³)
- ☐ inner electrode
PMMA graphitised (1.18 g/cm³)

Cable & Connector

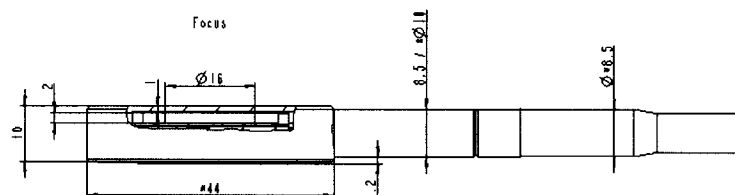
- ☐ connector type TNC or BNC triaxial
- ☐ cable length 1.40 m

Active Dimensions

- ☐ volume (nominal) 0.40 cm³
- ☐ cylinder height 2.0 mm
- ☐ front window thickness 1.0 mm
- ☐ diameter of inner electrode 16.0 mm

Operational Data

- ☐ leakage current < $\pm 4 \times 10^{-15}$ A
- ☐ sensitivity 12×10^{-9} C/Gy
- ☐ radiation quality (e) > 2 MeV
- ☐ polarizing voltage + 300 V
- ☐ reference point
in water 1.0 mm below the outer surface



* add 0.2 mm for tolerance if you intend to make adapters
dimensions in mm