Rotating Probe 425

Intended use: This device is only intended for perfusion measurements on animal brains.

Contents:
1 x PROBE 425/325 with Rotating Probe Head consisting of:
1 x Rotating Probe Head with Locking Nut
1 x Threaded Probe Support*
1 x Steering Tool*
5 x Disposable Ring
5 x Protective Plug
- Packed together, in a separate bag

Instructions

1. This Rotating Probe can be used on an animal skull which is prepared:
   I) for measurements on the cortex or in the parenchyma, through a burr-hole.
   II) for measurements on the skull, with the skull polished to a thin layer.
2. The tip of the Steering Tool is designed to allow easy positioning of the Disposable Ring (for "I" above). If no hole is made in the skull, the tip of the Steering Tool can be cut-off (for "II" above). The Steering Tool should still be used, however, to avoid glue on the Disposable Ring's threads.
3. Prepare the animal with I) burr-hole or II) polished skull.
4. Screw the Steering Tool into the Disposable Ring (Fig. 1).
   For I) locate the burr-hole with the tip of the Steering Tool.
5. Fix the Disposable Ring to the skull using cement, glue, screws or a combination of these. Do not allow the cement or glue to come in contact with the threads.
6. When the glue has dried, remove the Steering Tool carefully.
7. Apply a drop of silicon oil in the centre hole of both the disposable ring (if II -polished skull) and also in the Threaded Probe Support. (Fig. 2).
8. Place the Probe in the centre hole of the Threaded Probe Support and lock with the locking nut.
9. The Rotating Probe Head, complete with Threaded Probe Support, can now be screwed into the Disposable Ring (fixed to the skull).
10. The Probe should now rotate smoothly. If not, loosen the Locking Nut slightly.
11. A Protective Plug can be placed in the Disposable Ring (fixed to the skull) to seal-off the burr-hole/Disposable Ring, when the Laser Doppler Probe is not in place (Fig. 3.)
12. After the experiment is finished, all parts except the Disposable Ring may be reused. Sterilize with gas or disinfect with glutaraldehyde (Cidex).

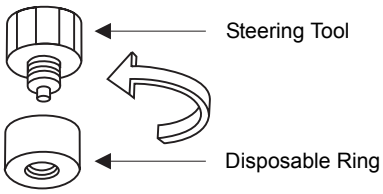


Figure 1

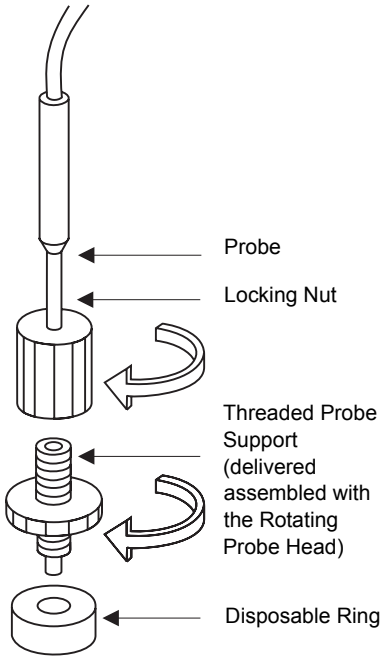


Figure 2

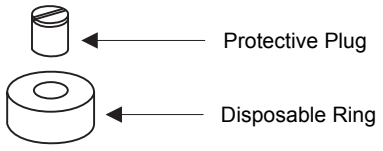


Figure 3

Note: *At delivery, the Rotating Probe Head is assembled together with the Threaded Probe Support and Locking Nut, to avoid particles in the optical part. (The Locking Nut holds the parts together.)* ***To disassemble:*** *The Threaded Probe Support can be unscrewed from the Locking Nut and the parts separated. Keep the parts clean.* ***To reassemble:*** *Replace the Rotating Probe Head onto the Threaded Probe Support and carefully tighten the Locking Nut.*

**) When ordering, the length of the tip of the Threaded Probe Support and the Steering Tool should be specified to suit the particular application.*

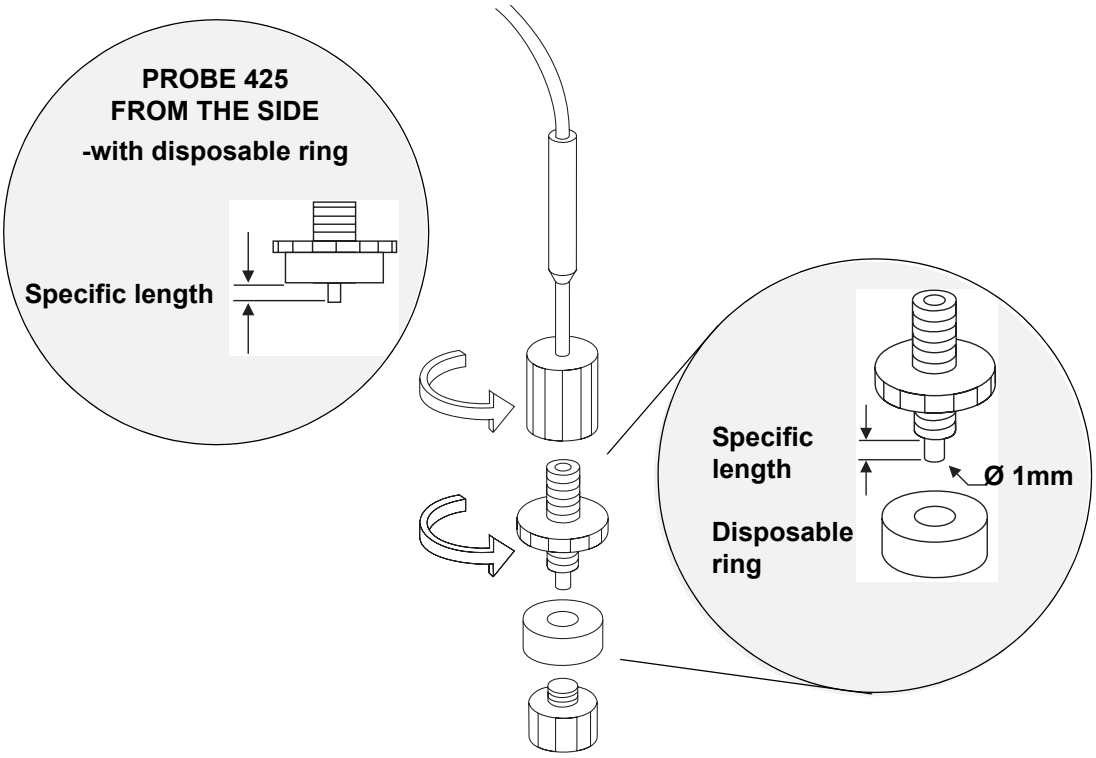
Perimed AB, Box 564, SE-175 26 Järfälla, Stockholm, Sweden
Phone: + 46-8-580 119 90, Fax: + 46-8-580 100 28
E-mail: mail@perimed.se, Webpage: http://www.perimed.se
Part no. 44-00156-01

Ordering Information for PROBE 425

Depending on what measurements you intend to do I) non invasive cortical measurements or II) invasive measurements (open scull), at certain depth, we need to know how long you want the tip to be (see figures below).

- For non invasive cortical measurements the scull can be polished very thin. For this application the glass tip shall stick out 0,5 - 0,6mm to ensure that the tip will touch the scull bone inspite the grinding is not perfect.
- For invasive measurements in Parenchyma, a glass tip with specific length sticks out of the probe. A hole is drilled in the scull and the tip is introduced through the hole.

The figures below shows the length that must be specified. Check the boxes below and send the information, together with the order, to Perimed AB. Please contact us if needed.



PROBE 425

Probe 425 (325) with...

☐ Tip for non invasive measurement (length 0,5 - 0,6mm)

☐ A tip that is _____ mm long

Name: _____

Institution: _____

Department: _____

Address: _____

Phone: _____

Fax: _____

E-mail: _____

Perimed AB, Box 564, SE-175 26 Järfälla, Stockholm, Sweden
Phone: + 46-8-580 119 90, Fax: + 46-8-580 100 28
E-mail: mail@perimed.se, Webpage: http://www.perimed.se
Part no. 44-00156-01