

# 766 IC Sample Processor

## 8.766.1023 Annex to the 8.766.1003 Instructions for Use

From Series 04 of the 766 IC Sample Processor a new needle holder is built in for the 6.1835.010 PEEK needle supplied together with the standard 6.2624.000 Steel needle. The corresponding **changes** in the installation of this needle are given below together with some **fault remedies** and **additions** to 8.766.1001 Instructions for Use; the page numbers mentioned refer to the pages of these Instructions for Use.

### Parts and controls

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In *Fig. 1* there are the following alterations to the operating elements:

- |   |
|---|
| <b>2 Needle</b><br>PEEK needle (6.1835.020) or PEEK tube (6.1835.010)   |
| <b>4 Steel holder (4.766.4330)</b><br>attached (part of 6.2833.000 Needle holder)   |
| <b>5 PEEK compression fitting (4.766.4320)</b><br>for connection of PEEK capillary <b>8</b><br>(part of 6.2833.000 Needle holder) |

### Installing the splash protection

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First attach the needle (see below) before mounting the splash protection.

### Installing the needle

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The 6.1835.010 PEEK needle or 6.1835.020 PEEK tube belonging to the standard accessories are mounted as follows (see *Fig. 6*):

#### 1 Remove PEEK compression fitting 5

- Remove PEEK compression fitting **5** screwed onto the steel holder **4**.

#### 2 Insert needle

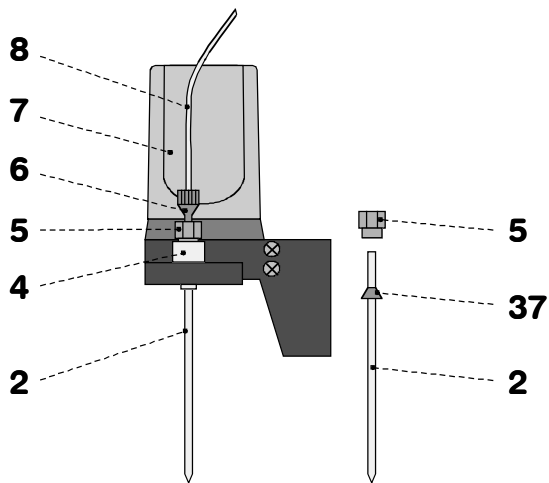
- Needle **2** (6.1835.010 PEEK needle or 6.1835.020 PEEK tube) is inserted a short distance into the opening of steel holder **4**.
- Push PEEK round seal **37** over needle **2** from above. The smaller end of the seal must face upwards.

#### 3 Fix needle

- Screw PEEK compression fitting **5** into steel holder **4** while pressing needle **2** gently upwards from below.
- Tighten compression fitting **5** in steel holder **4** by hand (never use tools!).



*If you are using the 6.1835.020 PEEK tube as needle, the sample tubes must **not be sealed with caps** because they cannot be pierced by the PEEK tube and this could damage the tube!*



**Fig. 6: Needle installation**

- |           |  |
|-----------|--|
| <b>2</b>  | <b>PEEK needle (6.1835.010) or PEEK tube (6.1835.020)</b>                          |
| <b>4</b>  | <b>Steel holder (4.766.4330)</b><br>(part of 6.2833.000 Needle holder)             |
| <b>5</b>  | <b>PEEK compression fitting (4.766.4320)</b><br>(part of 6.2833.000 Needle holder) |
| <b>6</b>  | <b>PEEK compression fitting (6.2744.010)</b>                                       |
| <b>7</b>  | <b>Swing head</b>  |
| <b>8</b>  | <b>PEEK capillary (6.1831.050)</b>   |
| <b>37</b> | <b>PEEK ferrule</b>  |

**Air bubbles when the enrichment column is used**

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If 6.1826.020 Pump tubing (1.6 mm i.d.) is used when operating the enrichment column then problems with air bubbles may occur. This can be remedied by degassing the samples with nitrogen or by using the normal 6.1826.040 Pump tubing (0.76 mm i.d.).

**Alterations to the standard equipment**

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- 1  $\checkmark$  **6.1835.010**    **PEEK needle** (instead of 6.2624.000 Steel needle) for aspiration of solutions from sealed sample tubes
- 1  $\checkmark$  **6.1835.020**    **PEEK tube** (instead of 6.1835.000 PEEK tube) for aspiration of solutions from open sample tubes
- 1  $\checkmark$  **6.2743.070**    **PP Cap with perforation** (instead of 2  $\times$  6.2743.060) for sealing the 6.2743.050 (11 mL) and 6.2743.040 (2.5 mL) sample tubes; set of 2000

**Alterations to the optional accessories**

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- 6.1835.000**    **PEEK tube** for 6.2833.010 Needle holder(1/16")
- 6.2624.000**    **Steel needle** for 6.2833.010 Needle holder (1/16")
- 6.2743.040**    **PP Sample tube 2.5 mL**; set of 2000



*The maximum immersion depth when using the small 6.2743.040 Sample vessels is **88 mm**. This is why the maximum lift path should be set to 88 mm in order to prevent damage to the needle!*

- 6.2833.000**    **Needle holder (1/8")**  
for 6.1835.010 Steel needle and 6.1835.020 PEEK tube
- 6.2833.010**    **Needle holder (1/16")**  
for 6.2624.000 Steel needle and 6.1835.000 PEEK tube