

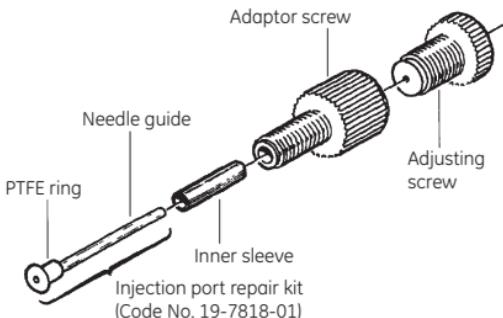
## Injection fill port

The injection fill port (Code No. 19-7687-01) is used together with the Valves V-7, IV-7, MV-7 and IMV-7 when they are functioning as injection valves. It serves as a needle insertion port for loading sample into a sample loop. A PTFE seal accommodates 0.55 mm o.d. needles. We recommend you to use injection Needles, o.d. 0.55 mm (Code No. 18-7143-01). When inserting the needle push it in gently as far as possible and then pull back about 2 mm. It is pushed against the PEEK surface, flow from the syringe is restricted.



To install the injection fill port:

1. Check to see that the PTFE ring, needle guide, and inner sleeve are inside the adaptor screw (Fig 1).



**Fig 1.** Disassembled injection fill port.

2. Loosen the adjusting screw from the adaptor screw.
3. Carefully thread the adaptor screw into the valve distributing plate at port 3. The adaptor screw must be started into the valve body correctly or the threads in the distributing plate can become damaged.
4. Finger tighten the adaptor screw into the distributing plate. Make sure that the end of the adaptor screw is seated up against the PEEK surface.
5. Insert the injection needle (0.55 mm o.d.) into the injection fill port.
6. Tighten the adjusting screw until the PTFE ring has formed a seal around the needle's tip. When the seal is adjusting correctly, it feels as if you are penetrating a septum at the end of the injection fill port. The seal should provide easy insertion and removal of the needle.

The injection fill port is now installed properly.

For repairing the injection fill port:

The PTFE ring and needle guide sometimes need replacement. If the ring has become splayed or the guide scratched, they should be replaced. The PTFE ring and needle guide are supplied together as an injection port repair kit (Code No. 19-7818-01). To replace these parts:

1. Detach the injection fill port from the valve's distributing plate.
2. Unscrew the adjusting and adaptor screws.
3. Push the needle guide and its attached PTFE ring out of the adaptor screw.
4. Replace these two parts and reassemble the injection fill port according to the diagram in fig 1.

Remember to follow the proper procedure for reconnecting the injection fill port.

## Ordering information

Designation	No. per pack	Code No.
Injection fill port	1	19-7687-01
Injection needles (o.d. 0.55 mm)	6	18-7143-01
Injection port repair kit	1	19-7818-01

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