

PREPARATIVE SYSTEM ACCESSORIES

USER'S GUIDE

Fig.	Qty	Description	Mark
	1 m	PEEK Tubing OD 1/16"x ID 0.75mm Green (Max. flow-rate 100 ml/min., Max. press. 30 MPa)	
	1 m	PTFE Tubing OD 1/16"x ID 0.50mm (Max. flow-rate 50 ml/min., Max. press. 5 MPa)	
	2 m	FEP Tubing OD 1/8" x ID 1/16" (Max. flow-rate 500 ml/min., Max press. 3 MPa)	
	3 pc	PEEK One-Piece Handtight Nut 1/16", 10-32 (Max. press. 35 MPa)	
	3 pc	Flangeless Nut 1/16", 1/4"-28, PPS	
	3 pc	Tefzel Ferrule 1/16" big (Max. press. 3 MPa)	
	6 pc	PEEK Nut 1/8", 1/4"-28 threads	
	6 pc	KEL-F Ferrule 1/8" (Max. press. 3 MPa)	
	1 pc	Adapter Extra long PEEK 1/4-28F to 10-32M (Max. press. 3 MPa, Max. flow-rate 100 ml/min.)	
	1 pc	Syringe LUER 10mL, plastic	-
	1 pc	Syringe LUER 20mL, plastic	-
	1 pc	Wrench 1/4" (UNF 10-32 nuts.)	-
	1 pc	Hexagon socket screw key SS 3mm (Dismounting pumps heads – seals replacement.)	-
	1 pc	Open End Wrench 8-10 mm (Dismounting check valves holders–replacement.)	-
	1 pc	Open End Wrench 13-17 mm (Replacement of by-pass valve needle.)	-
-	1 pc	User's guide	-



Showcase of ferrule and screw on 1/8" tubing. The ferrule tip should head to the screw. Tefzel ferrule is used similar on 1/16" tubing.

Caution it is not possible to interchange screws and ferrules for 1/16" and 1/8" tubing.

Preparative systems connections examples

All connections should be made with **shortest possible length of tubing and capillaries** for reducing dead volumes. PEEK capillary and tubing could be easily shortened by cutting. If system works with higher pressures and PEEK handtight nuts is shot out then try coarsen of capillaries ends by sandpaper.

Preparative development systems are best to connect according to figure 1. Column connection system is UNF 10-32. 50 ml/min. flow-rate restriction of this connection is based on ID=0.5mm tubing after column. This tubing reduce dead volume and it may help with peak sharpness and also shortened delay between detector and fraction collector. You can reduce dead volume between injector and column by using capillary with ID=0.5mm, but it have to be ordered separately.

Preparative systems with flow-rate over 50 ml/min. are best to connect according to figure 2. Flow-rate restriction is based on using adapter with 0.75 mm thru-hole and PEEK capillary with ID=0.75mm. Max. flow-rate is 100 ml/min.

Systems with 1/4"-28 column connection are best to connect according to figure 3. Flow-rate is restricted to 100 ml/min. by using adapter (see above) and pressure is restricted to 3 MPa.

CONNECTIONS EXAMPLES

