

PEEK Sample Loops

Flexible PEEK sample loops are alternatives to stainless steel loops. PEEK loop ends are provided with clean, straight cuts for easy valve installation.

PEEK polymer is inert to almost all organic solvents and is biocompatible, giving PEEK loops added versatility. Natural PEEK is used for these sample loops. Like metal loops, the size designations of PEEK loops are nominal. The actual volumes can differ from the theoretical designations because of the ± 0.05 mm (0.002") tolerance of the tubing bore. Accuracy of large PEEK loops (0.8 mm, 0.030" bore) is about $\pm 14\%$, intermediate loops (0.5 mm, 0.020") $\pm 21\%$, and small loops (0.2 mm, 0.007") $\pm 65\%$.

PEEK loops are also supplied with unswaged RheFlex® fittings but do not require the same swaging precaution. The fittings can reposition along the loop tubing when the fitting reinserts in the ports for correct loop installation.

Please Note: Several of our PEEK Sample Loops can also be used with Valco/MIC® sample injection valves. Please refer to the product listing on this page to aid selection.



APPLICATION NOTE

PEEK Physical Strength Characteristics

Although PEEK material is compatible with virtually all solvents, there are many factors that affect burst pressure of PEEK tubing. Factors such as increases in inner diameter, temperature, exposure time, and concentration of organic solvents affect the degradation of PEEK. Other solvents such as THF, methylene chloride and DMSO cause PEEK tubing to swell while concentrated nitric acid and sulfuric acid weaken the tubing.

Part No.	Volume	Tubing	Valco No.
PEEK LOOPS FOR 3725, 3725i INJECTION VALVES			
3055-018	2.0 mL Sample Loop	1.6 mm (0.062") ID x 1/8" OD	N/A
3055-019	5.0 mL Sample Loop	1.6 mm (0.062") ID x 1/8" OD	N/A
3055-023	10 mL Sample Loop	2.0 mm (0.080") ID x 1/8" OD	N/A
3055-025	20 mL Sample Loop	2.0 mm (0.080") ID x 1/8" OD	N/A
PEEK LOOPS FOR 9725, 9010, PR/EV750-100, PR/EV753-100 INJECTION VALVES			
Part No.	Volume	Bore / Tubing	Valco No.
9055-020	5.0 μ L Sample Loop	0.18 mm (0.007") ID x 1/16" OD	SL5CWPK
9055-021	10 μ L Sample Loop	0.25 mm (0.010") ID x 1/16" OD	SL10WPK
9055-022	20 μ L Sample Loop	0.25 mm (0.010") ID x 1/16" OD	SL20WPK
9055-023	50 μ L Sample Loop	0.51 mm (0.020") ID x 1/16" OD	SL50WPK
9055-024	100 μ L Sample Loop	0.51 mm (0.020") ID x 1/16" OD	SL100WPK
9055-025	200 μ L Sample Loop	0.51 mm (0.020") ID x 1/16" OD	N/A
9055-026	500 μ L Sample Loop	0.76 mm (0.030") ID x 1/16" OD	SL500WPK
9055-027	1.0 mL Sample Loop	0.76 mm (0.030") ID x 1/16" OD	SL1KCWPK
9055-028	2.0 mL Sample Loop	0.76 mm (0.030") ID x 1/16" OD	SL2KCWPK
9055-029	5.0 mL Sample Loop	0.76 mm (0.030") ID x 1/16" OD	N/A
9055-033	10 mL Sample Loop	0.76 mm (0.030") ID x 1/16" OD	N/A
PEEK LOOPS FOR 7725, 7725i, PR/EV700-100			
7123-227	1 μ L Sample Loop (models PR/EV700-100 and EV750-100 only)	Internal groove	N/A
7755-015	2 μ L Sample Loop (models 7725, 7725i, and 9725(i) only)	Internal groove	N/A
REPLACEMENT RHEFLEX FITTINGS FOR PEEK LOOPS			
Part No.	Description		Qty.
6000-078	Nut/Ferrule Set, Natural PEEK, 5/16-24, for 1/8" OD loops		ea.
6000-079	Ferrules, Natural PEEK, for 1/8" OD loops		5-pk
6000-251	Ferrules, Natural PEEK, for 1/16" OD loops		10-pk
6000-254	Nut/Ferrule Sets, Natural PEEK, 10-32, for 1/16" OD loops		10-pk