All 316L Stainless Steel Or All PTFE
Hastelloy And Monel Units Also Available
Compact Design For Fast Response Time
Choose From Four Housing Sizes
Accepts Stainless Steel, PTFE And PEL Elements



Our Fast Loop filters are constructed from 316L stainless steel. This straight through design is ideal for heavily contaminated systems since the filter element is continuously flushed by the high flow rate stream. Only the low flow (analyzer) stream is filtered, thus maximizing filter element life. Traditional T-type by-pass filters are detailed in Filters for Instrumentation & Analysis.

The Fast Loop filters use axial velocity to flush heavy contaminates down stream while passing the sample through the element wall with low flow and radial velocity. The annular cavity is filled and the sample passes into the sample line. Our 127IL-3 has an offset sample port for even more sweeping action and is available with (standard) 1/4" ports or 1/2". The annular cavity has very low volume to minimize lag time and keep the samples clean. For best results, a minimum of a 4 to 1 flow rate should be maintained for continuous flushing.

Housing Model	126IL-3	127IL-3*	136IL-3	146IL-3
Inline port size	1/4"	1/4"	1/2"	1/2"
Sample port size	1/4"	1/4"	1/4"	1/4"
Max. pressure (psig)	5000	5000	1500	1500
Max. temp. (°F)	400	400	400	400
PTFE Model (2)	126PIL-3	127PIL-3	136PIL-3	146PIL-3
Standard Viton O-Ring	GV126IL-3	GV127IL-3	GV136IL-3	GV136IL-3
Optional Kalrez O-Ring	KZ126IL-3	KZ127IL-3	KZ136IL-3	KZ136IL-3
Principal dimensions: (inches)				
Overall length	3.80	6.50	4.50	9.00
Diameter	1.96	1.96	2.50	2.50
Element size	1/2" x 2 1/4"	1/2" x 5	1 x 2 1/2"	1 x 7
Element codes (1)				
Stainless Steel	SS-12-57-□	SS-127-□	SS-25-64-□	SS-25-178-□
PTFE	PT-12-57-□	N/A	PT-25-64-□	PT-25-178-□
Internal Volume (cc)	22	44	65	180
Annular Volume (cc)	15	30	32	90

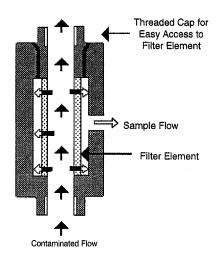
Note: (1) Enter grade requires (e.g. SS-25-64-10T, PT-25-178-25).

(2) Maximum temperature on PIL-3 Models 300°F, maximum psig 100, Viton seal standard.

(*) 127IL-3 comes standard with all 1/4" ports. 127IL-3-1/2"-1/4" has 1/2" inlet/outlet ports, and 1/4" sample.



Stainless Steel elements consists of five layers of precision-woven 316L stainless steel mesh formed into cylinders and sintered together; the filter layer being supported, protected and prefilitered by two inner and two outer layers. Five layers offer surface area and depth area for removing solids and dropping out liquids. PFP offers seven standard grades of filtration with a 98% efficiency in the following microns: 01, 03, 10, 25, 50, 100 and 200. Grade 25 (25 micron) is widely used to protect sample flows from visible particulate while grade –03 is recommended for the removal of pipe scale from steam. Non-standard micron sizes are typically sintered elements, such as the 005, (0.5 micron).



PTFE sintered elements are used where sample compatibility is of concern. Three grades of filtration are available with a 98% efficiency: 03, 10 and 25 micron.

SAMPLE STREAM WATER FLOW RATES IN GPH (LPM) AT 1.5 PSI DROP

Stainless Steel	PTFE	Housing Model Series			
(micron) Element Grade	(micron) Element Grade	126IL-3 126PIL-3	127IL-3	136IL-3 136PIL-3	146IL-3 146PIL-3
		120		130	140
		Series		Series	Series
005 (0.5 micron)		2 (.2)	4 (1)	5 (.3)	13 (.9)
01 (1 micron)		5 (.3)	10 (.6)	13 (.9)	32 (2)
03 (3 micron)	03	11 (.7)	20 (1.2)	26 (1.6)	61 (3.8)
10	10	26 (1.6)	45 (2.9)	62 (3.9)	111 (7)
25	25	27 (1.7)	57 (3.6)	84 (5.3)	132 (8.3)
50		30 (2.0)	63 (4)	88 (6)	141 (9)
100		33 (2.1)	65 (4.1)	95 (5.9)	158 (9.9)
200		41 (2.6)	81 (5.1)	118 (7.4)	185 (11.7)

Above flow rates are gallons per hour (liter per minute).

Note: Support cores should not be used with Fast Loop housings 126IL-3, 127IL-3, 136IL-3 and 146IL-3. They should only be used with traditional T-type housings,

Flow rates are generally proportional to pressure drop. If initial pressure drop of 3 psi can be tolerated, then the above flow rate can be doubled. Flow rates are generally inversely proportional to liquid viscosity.

We do not recommend using disposable micro fiber elements with Fast Loop assemblies.

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