



# Liquid Flow Rates For Headline Products

## Details

- Excellent Chemical and Solvent Resistance with all SS Models
- XX Micron Retention Efficiency Grades
- Up to 2" Connections
- Can Accept Industry Standard 10" and 20" Liquid Elements

By utilizing Stainless Steel (SS), PTFE, and Sintered PEL elements Headline filter housings may be utilized in liquid service. The below chart should only be used as a basic flow guide.

By employing a DOE element adaptor industry standard 10" and 20" liquid elements can be used in Headline Filters housings. Applying this popular option on our 150 and 160 series of stainless steel housings provides pressure ratings to 1500 PSIG and above. Most industry standard liquid housings have a maximum 250 PSIG.

### WATER FLOW RATES IN LPM AT 1.5 PSI DROP

Stainless Steel Micron Size	PTFE Micron Size	PEL Micron Size	Housing Model Series					
			110 315 Series	120 315L Series	130 360 Series	140 370 Series	150 385AHP Series	160 390AHP Series
005 (0.5 Micron)	--	--	.0	0.2	0.3	0.7	2.0	4.0
01 (1 Micron)	--	--	0.2	0.3	0.82	2.0	5.0	9.9
03 (3 Micron)	03 Micron	--	0.4	0.7	1.6	3.8	9.9	16.6
10 (10 Micron)	--	10 Micron	1.0	1.6	3.9	7.0	20.0	23.3
25 (25 Micron)	25 Micron	25 Micron	1.3	1.7	5.3	8.3	21.6	25.0
50 (50 Micron)	--	--	1.4	1.8	5.6	8.8	23.0	26.0
100 (100 Micron)	--	75 Micron	1.5	2.1	5.9	9.9	23.3	26.6
200 (200 Micron)	--	--	1.8	2.6	7.4	11.7	29.0	33.2

Above flow rates are liters per minute.

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 advise using Borosilicate Glass Microfiber elements for liquid service in T-Type housings.

**Disposable In-Line Filters** should only be used in ultra-low flow applications for liquid samples to analyzers and/or where minimum hold up volume is critical.

### LIQUID FLOW RATES (12-16-□) - MINI

DIF Model Number	Filtration Efficiency 98% Removal Rating	Water Flow Rates with 1.5 PSID
DIF-MN30	0.3 micron	0.6 GPH / 0.04 LPM
DIF-MN40	1 micron	1.6 GPH / 0.12 LPM
DIF-MN50	2 micron	3.3 GPH / 0.25 LPM
DIF-MN60	8 micron	6.5 GPH / 0.49 LPM
DIF-MN70	25 micron	8.0 GPH / 0.60 LPM
DIF-MN80	75 micron	8.5 GPH / 0.64 LPM

### LIQUID FLOW RATES – (12-32-□) - STANDARD

DIF Model Number	Filtration Efficiency 98% Removal Rating	Water Flow Rates with 1.5 PSID
DIF-BN30 or BK30	0.3 micron	1.3 GPH / 0.10 LPM
DIF-BN40 or BK40	1 micron	3.2 GPH / 0.24 LPM
DIF-BN50 or BK50	2 micron	6.6 GPH / 0.50 LPM
DIF-BN60 or BK60	8 micron	13.0 GPH / 0.98 LPM
DIF-BN70 or BK70	25 micron	16.0 GPH / 1.21 LPM
DIF-BN80 or BK80	75 micron	17.0 GPH / 1.29 LPM

### LIQUID FLOW RATES – (12-57-□) - INTERMEDIATE

DIF Model Number	Filtration Efficiency 98% Removal Rating	Water Flow Rates with 1.5 PSID
DIF-IN30	0.3 micron	2.6 GPH / 0.19 LPM
DIF-IN40	1 micron	6.4 GPH / 0.48 LPM
DIF-IN50	2 micron	13.2 GPH / 1.00 LPM
DIF-IN60	8 micron	26.0 GPH / 1.97 LPM
DIF-IN70	25 micron	32.0 GPH / 2.42 LPM
DIF-IN80	75 micron	34.0 GPH / 2.57 LPM

### LIQUID FLOW RATES – (25-64-□) - LARGE

DIF Model Number	Filtration Efficiency 98% Removal Rating	Water Flow Rates with 1.5 PSID
DIF-LN30 or LK30	0.3 micron	13.0 GPH / 0.98 LPM
DIF-LN40 or LK40	1 micron	26.0 GPH / 19.7 LPM
DIF-LN50 or LK50	2 micron	62.0 GPH / 4.70 LPM
DIF-LN60 or LK60	8 micron	84.0 GPH / 6.36 LPM
DIF-LN70 or LK70	25 micron	95.0 GPH / 7.20 LPM
DIF-LN80 or LK80	75 micron	118.0 GPH / 8.94 LPM

