

DFA™ Filter Capsules



Description

The DFA filter assembly is a compact capsule, ideally suited for the filtration of point-of-use DI water.

- Vent at highest location
- Drain at lowest location
- High flow rates
- Manufactured in a cleanroom environment
- O-ringless design
- Minimized dead space for complete and easy venting

Specifications

Materials

P-Nylon Filter

- Hydrophilic Nylon 6,6 Medium
- Shell, core, cage and end caps: Polypropylene
- Support and drainage: High Density Polyethylene (HDPE)

Ultipor® Filter

- Hydrophilic Nylon 6,6 Medium
- Shell, core, cage and end caps: Polypropylene
- Support and drainage: Polypropylene

Fluorodyne® Filter

- Hydrophilic PVDF Medium
- Shell, core, cage and end caps: Polypropylene
- Support and drainage: Polypropylene

Removal Ratings

- P-Nylon: 0.2 µm, 0.1 µm, 0.04 µm, 0.02 µm
- Ultipor: 0.2 µm, 0.1 µm
- Fluorodyne: 0.1 µm, 0.2 µm

Connections

Inlet, outlet / vent, drain

- ¼" NPT / ⅜" NPT
- ⅜" Swagelok¹ / ¼" Swagelok
- ½" Swagelok / ¼" Swagelok²
- 6 mm Pillarfitting³ / 4 mm Pillarfitting
- 8 mm Pillarfitting / 4 mm Pillarfitting
- 10 mm Pillarfitting / 4 mm Pillarfitting²
- ¼" Pillarfitting / ¼" Pillarfitting
- ⅜" Pillarfitting / ¼" Pillarfitting
- ⅜" Flaretek⁴ / ¼" Flaretek

Operating Conditions

Maximum Pressure:

- 75 psig @ 100°F / 5 bar @ 38°C

¹ Swagelok is a trademark of Swagelok Co.

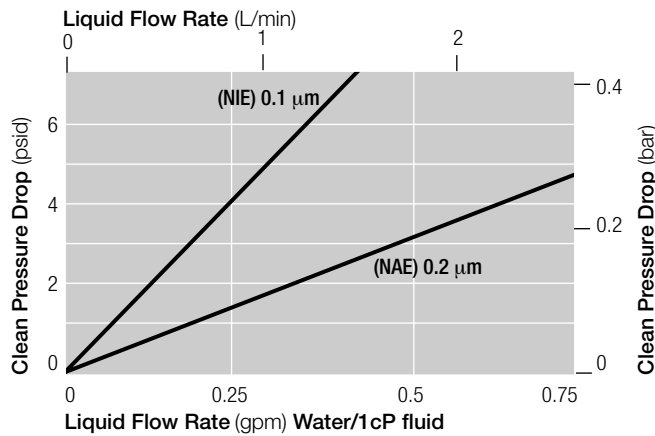
² Contact Pall Microelectronics for these fitting options

³ Pillarfitting is a trademark of Pillar Packing Co.

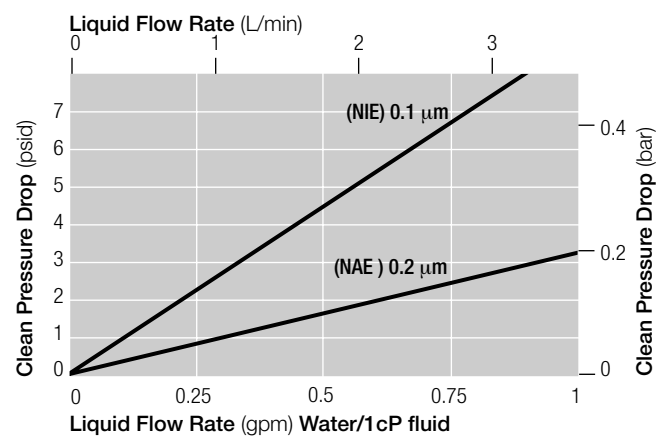
⁴ Flaretek is a trademark of Entegris, Inc.

Pressure Drop vs. Liquid Flow Rate

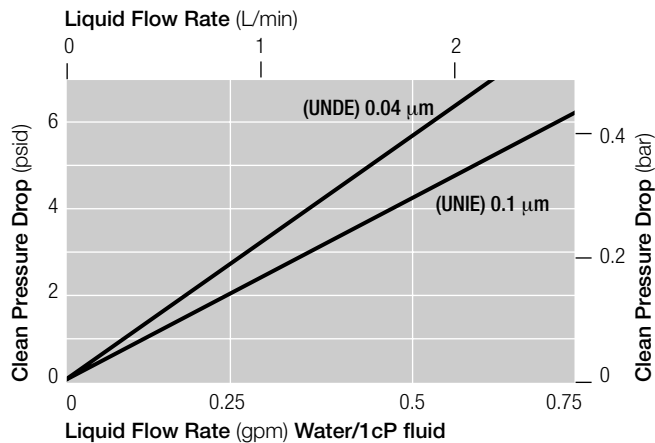
Ultipor Filters



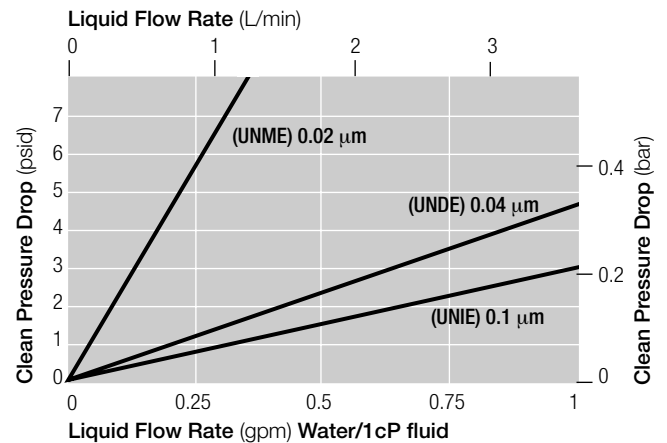
Ultipor Filters



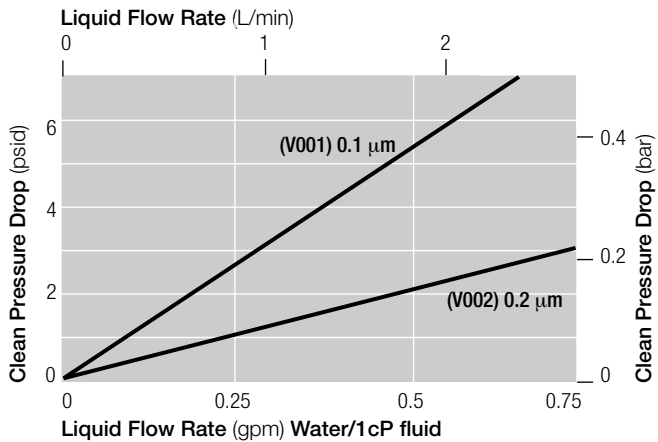
P-Nylon Filters



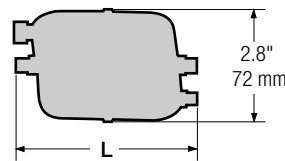
P-Nylon Filters



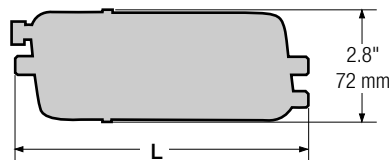
Fluorodyne Filters



Dimensions



DFA1 / DFA4201



DFA6402 / DFA2

Unit conversion: 1 bar = 100 kilopascals

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Part Numbers / Ordering Information

Part Number	Removal Rating (µm)	Filter Area (in ² / cm ²)	Connections Inlet, Outlet / Vent, Drain	Nominal Length L (in / mm)
<i>P-Nylon Filter (Nylon 6,6 Media / HDPE Support and Drainage Layer)</i>				
DFA4201UNAE	0.2	279 / 1800	¼" NPT / ⅛" NPT	4.51 / 114.5
DFA4201UNIE	0.1	279 / 1800	¼" NPT / ⅛" NPT	4.51 / 114.5
DFA1UNIENP64M	0.1	279 / 1800	6 mm Pillarfitting / 4 mm Pillarfitting	4.51 / 114.5
DFA1UNIENP84M	0.1	279 / 1800	8 mm Pillarfitting / 4 mm Pillarfitting	4.70 / 119.5
DFA6402UNIE	0.1	574 / 3700	⅜" Swagelok / ¼" Swagelok	6.80 / 173
DFA4201UNIE	0.1	279 / 1800	¼" NPT / ⅛" NPT	4.51 / 114.5
DFA2UNIEFL64	0.1	574 / 3700	⅜" Flaretek / ¼" Flaretek	8.40 / 214.5
DFA1UNDENP64M	0.04	341 / 2200	6 mm Pillarfitting / 4 mm Pillarfitting	4.51 / 114.5
DFA1UNDENP84M	0.04	341 / 2200	8 mm Pillarfitting / 4 mm Pillarfitting	4.70 / 119.5
DFA6402UNDE	0.04	713 / 4600	⅜" Swagelok / ¼" Swagelok	6.80 / 173
DFA2UNDEFL64	0.04	713 / 4600	⅜" Flaretek / ¼" Flaretek	8.40 / 214.5
DFA2UNDENP84M	0.04	713 / 4600	8 mm Pillarfitting / 4 mm Pillarfitting	7.77 / 197
DFA2UNDENP64R	0.04	713 / 4600	⅜" Pillarfitting / ¼" Pillarfitting	7.62 / 194
DFA2UNMENP84M	0.02	961 / 6200	8 mm Pillarfitting / 4 mm Pillarfitting	7.77 / 197
DFA2UNMENP64R	0.02	961 / 6200	⅜" Pillarfitting / ¼" Pillarfitting	7.62 / 194
DFA2UNMEFL64	0.02	961 / 6200	⅜" Flaretek / ¼" Flaretek	8.40 / 214.5
<i>Ultipor Filter (Nylon 6,6 Media / Polypropylene Support and Drainage Layer)</i>				
DFA4201NAEY	0.2	215 / 1390	¼" NPT / ⅛" NPT	4.51 / 114.5
DFA6402NAEY	0.2	400 / 2600	⅜" Swagelok / ¼" Swagelok	6.80 / 173
DFA1NIEYNP64M	0.1	215 / 1390	6 mm Pillarfitting / 4 mm Pillarfitting	4.51 / 114.5
DFA1NIEYNP84M	0.1	215 / 1390	8 mm Pillarfitting / 4 mm Pillarfitting	4.70 / 119.5
DFA1NIEYSW44	0.1	215 / 1390	¼" Swagelok / ⅛" Swagelok	4.51 / 114.5
DFA6402NIEY	0.1	400 / 2600	⅜" Swagelok / ¼" Swagelok	6.80 / 173
<i>Fluorodyne Filter (PVDF Media / Polypropylene Support and Drainage Layer)</i>				
DFA4201V002EY	0.2	202 / 1300	¼" NPT / ⅛" NPT	4.51 / 114.5
DFA4201V001EY	0.1	202 / 1300	¼" NPT / ⅛" NPT	4.51 / 114.5
DFA1V001EYSW44	0.1	202 / 1300	¼" Swagelok / ⅛" Swagelok	4.51 / 114.5



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