



PhotoKleen™ Filter Assembly



Description

The PhotoKleen filter assembly is a compact capsule assembly designed for clean, simple and safe filter changeout. It is well suited for applications that demand higher purity—such as developer, solvents and photoresist filtration—because it eliminates all polypropylene components. Use of the assembly in systems can improve overall performance.

- Low hold-up volume
- Vent at highest location
- Drain at lowest location
- Low pressure drop
- Manufactured in a cleanroom environment
- O-ringless design
- Minimized dead space

Specifications

Materials

- Medium:
 - Asymmetric P-Nylon filter: Hydrophilic nylon 6,6
 - P-Nylon filter: Hydrophilic nylon 6,6
 - PE-Kleen filter: Hydrophobic High Density Polyethylene (HDPE)
- Shell, core, cage, and end caps: High Density Polyethylene (HDPE)
- Support and drainage: high density polyethylene (HDPE)

Removal Ratings

- Asymmetric P-Nylon filter: 20 nm, 40 nm
- P-Nylon filter: 0.1 μm , 40 nm
- PE-Kleen filter: 0.15 μm , 0.07 μm , 0.05 μm , 30 nm, 10 nm

Connections

Inlet, outlet / vent, drain

- $\frac{1}{4}$ in Pillarfitting¹ / $\frac{1}{4}$ in Pillarfitting
- $\frac{3}{8}$ in flare style / $\frac{1}{4}$ in flare style

Operating Conditions

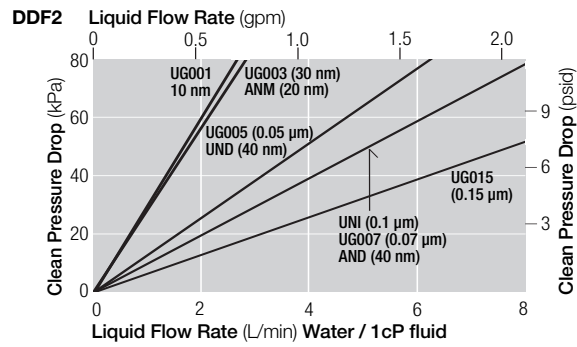
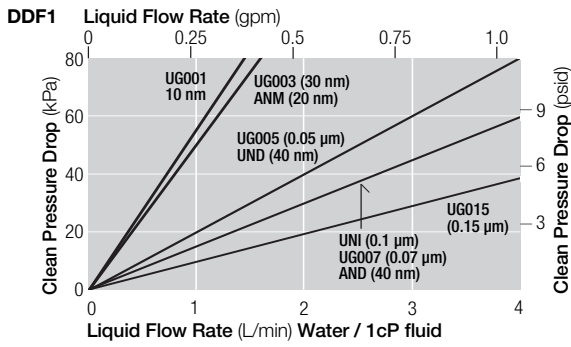
- Maximum operating temperature: 30°C / 86°F
- Maximum forward differential pressure: 290 kPa @ 30°C / 42.6 psid @ 86°F

Recommended Applications

- Solvent dispense
- Photoresist dispense

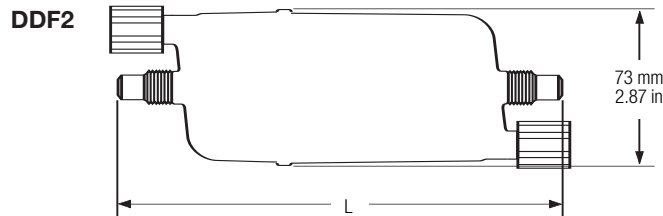
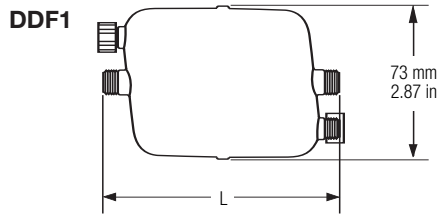
¹ Pillarfitting is a trademark of Nippon Pillar Packing Co., Ltd.

Pressure Drop vs. Liquid Flow Rate²



² For liquids with a viscosity differing from water, multiply the pressure drop by the viscosity in centipoise.

Dimensions



Part Numbers / Ordering Information

Part Number	Removal Rating	Filter Area (cm ² / in ²)	Connections Inlet, Outlet / Vent, Drain	Nominal Length (mm / in)
P-Nylon Filter: Nylon 6,6 Media				
DDF1UNIENP44	0.1 µm	1800 / 279	¼ in Pillarfitting / ¼ in Pillarfitting	122 / 4.8
DDF2UNIEFL64	0.1 µm	3700 / 574	⅜ in flare style / ¼ in flare style	212 / 8.3
DDF1UNDENP44	40 nm	2200 / 341	¼ in Pillarfitting / ¼ in Pillarfitting	122 / 4.8
DDF2UNDEFL64	40 nm	4600 / 713	⅜ in flare style / ¼ in flare style	212 / 8.3
PE-Kleen Filter: High Density Polyethylene Media				
DDF1UG015ENP44	0.15 µm	2200 / 341	¼ in flare style / ¼ in flare style	148 / 5.8
DDF1UG007ENP44	0.07 µm	2200 / 341	¼ in Pillarfitting / ¼ in Pillarfitting	122 / 4.8
DDF2UG007EFL64	0.07 µm	4400 / 682	⅜ in flare style / ¼ in flare style	212 / 8.3
DDF1UG005ENP44	0.05 µm	2200 / 341	¼ in Pillarfitting / ¼ in Pillarfitting	122 / 4.8
DDF2UG005EFL64	0.05 µm	4400 / 682	⅜ in flare style / ¼ in flare style	212 / 8.3
DDF1UG003ENP44	30 nm	2200 / 341	¼ in Pillarfitting / ¼ in Pillarfitting	122 / 4.8
DDF2UG003EFL64	30 nm	4400 / 682	⅜ in flare style / ¼ in flare style	212 / 8.3
DDF1UG001ENP44	10 nm	2200 / 341	¼ in Pillarfitting / ¼ in Pillarfitting	122 / 4.8
DDF2UG001EFL64	10 nm	4400 / 682	⅜ in flare style / ¼ in flare style	212 / 8.3
Asymmetric P-Nylon Filter: 6,6 Media				
DDF1ANMENP44	20 nm	2500 / 388	¼ in Pillarfitting / ¼ in Pillarfitting	122 / 4.8
DDF2ANMEFL64	20 nm	5300 / 822	⅜ in flare style / ¼ in flare style	212 / 8.3
DDF1ANDENP44	40 nm	2500 / 388	¼ in Pillarfitting / ¼ in Pillarfitting	122 / 4.8
DDF2ANDEFL64	40 nm	5300 / 822	⅜ in flare style / ¼ in flare style	212 / 8.3

Unit conversion: 1 bar = 100 kilopascals



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