

LiquiPro™ DI

PES Membrane Cartridge Filters



Superior filters made of high quality PES (Polyethersulfone) membrane with low pressure drop, high flow rate and long service life for direct DI water, TMAH developer, weak acids and base solutions.

Features and Benefits

- Optimised mirrored asymmetric PES membrane structure and support materials that ensure low pressure drop, high flow rate and long service life.
- Permanent hydrophilic membrane without the use of additives, surface modification agents or post-treatments to ensure purity performance is not compromised.
- Certificate of quality enclosed with each lot of product for quality assurance that ensures filter-to-filter, lot-to-lot performance.
- High purity application filters with double-bag packaging and manufactured in clean room environment.
- 100% virgin polypropylene support material construction without the use of binders, adhesive or surfactants to ensure purity performance is not compromised.
- Fast rinse up time as filters has been pre-flushed with Ultrapure DI water (18.2 Megaohm-cm, TOC less than 40ppb).

Typical Applications

- General direct DI and recirculation DI water bath applications.
- Direct DI Water application for fat panel display manufacturing.
- Direct DI water application for solar and wafer bumping.
- Recommended for TMAH 2.38%.

Performance Specifications

Pore size rating

0.05, 0.1, 0.2, 0.45, 1.2µm

Maximum differential pressure:

5.39 bard (78 psid) @20°C (68°F)

1.7 bard (24psid) @80°C (176°F)

Recommended change-out differential pressure

2.0 bard (30 psid)

Compatibility and purity

Filters do not use any binders, surfactants and adhesives for broad usage compatibilities.

Materials of construction

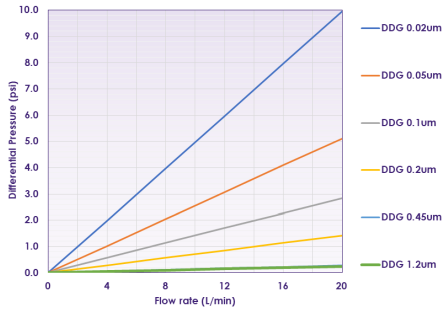
Filter media: Polyethersulfone (PES)

Support: Polypropylene

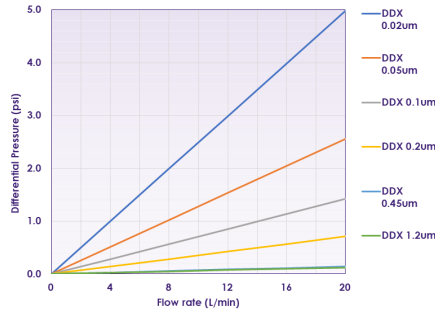
End caps, core, cage: Polypropylene

O-rings: EPDM, FKM and E-FKM

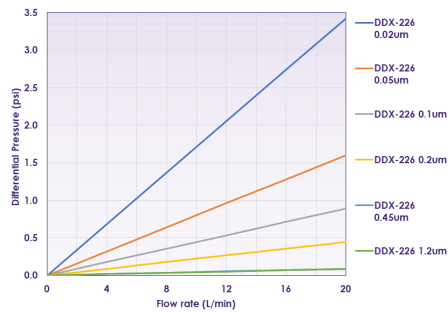
Flow Rates: LiquiPro™ DI (DG) 222 series



Flow Rates: LiquiPro™ DI (DGX) 222 series



Flow Rates: LiquiPro™ DI (DGXW) 226 series



*Flow rate is for water at 20°C through a 10 in cartridge. For liquids other than water, multiply differential pressure by fluid viscosity (cP).

Ordering Information

To form a part number, please chose one option from each column below.

Product Name	Micron Rating	Adaptor Code	Seals	Diameter	Length	Key Option
DG: LiquiPro™ DI (Standard)	005: 0.05 µm	A : 222/flat	E: EPDM	A: 70mm	05: 5in	- : N/A
DGW: LiquiPro™ DI (226mm dia)	010: 0.1 µm	K: 226/flat	T: E-FKM	B: 80mm	10: 10in	
DGX: LiquiPro™ DI (Xtra life)	020: 0.2 µm	M: DOE	V: FKM	C: 130mm	20: 20in	
DGXW: LiquiPro™ DI (Xtra life 226mm dia)	045: 0.45 µm	R: 334/flat	S: Silicone		30: 30in	
DGU: LiquiPro™ DI (ultra life)	120: 1.2 µm	J: 213 internal			40: 40in	
DGUW: LiquiPro™ DI (ultra life 226mm dia)						

Diameter	Code
222 (10in)	Dia 70 mm = 266 +/- 2
222 (20in)	Dia 70 mm = 506 +/- 4
222 (30in)	Dia 70 mm = 750 +/- 4
226 (10")	Dia 70 mm = 226 +/- 2
226 (10")	Dia 80 mm = 245 +/- 2
213 (20")	Dia 70 mm = 494 +/- 4

Customer to specify length if different from the above.