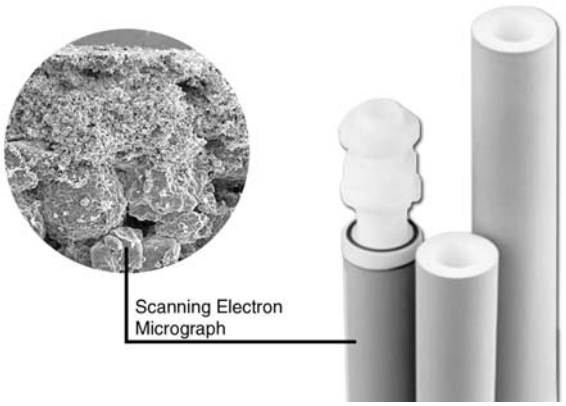
Pall Corporation

Pall Dia-Filtroplast®
Filter Elements

Description

Pall **Dia-Filtroplast** filter elements are manufactured from High Density PolyEthylene (HDPE). The coarse grained support body is coated with a thin, fine filtering polyethylene membrane, and both are strongly sintered together in a controlled sintering process.

This results in an integral fusing of support and membrane layers giving a high abrasion resistance. Furthermore, the **Dia-Filtroplast** barrier filter element can be backflushed even at high pressures.



Applications

- Backwashable surface filter for liquids
  - Polish filtration of cell brine in the chlor-alkali electrolysis according to the membrane or diamphragm process
  - Polish filtration of concentrated salt solutions (e.g. NaCl, KCl, $MgCl_2$)
  - Catalyst recovery of reactive solutions (e.g. at hydroxylamine production)
  - Removal of suspended particles from pure water
- Backpulsable surface filter for gases
  - Recovery of valuable substances
- Suction Device
  - Dust separation in sacking plants

Chemical Resistance[1]

Dia-Filtroplast filter elements have an excellent chemical resistance. **Dia-Filtroplast** filter elements are hydrophobic and do not swell in water. They are resistant against alcohol, aliphatic hydrocarbons, organic fluids, e.g. oil. The media also resists strong alkalies, acids and saline solutions. Chemical cleaning using sodium hypochloride or hydrochloric acid is possible without any problems.

For more detailed information please refer to our brochure "Chemical resistance of Filtroplast® and **Dia-Filtroplast** filter elements"

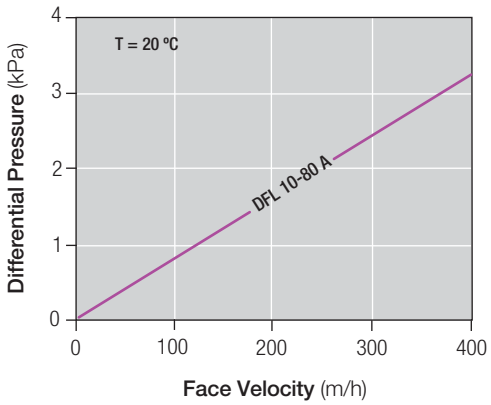
[1] As end use conditions can vary, it is the users responsibility to verify compatibility with their specific use conditions.

Technical Information

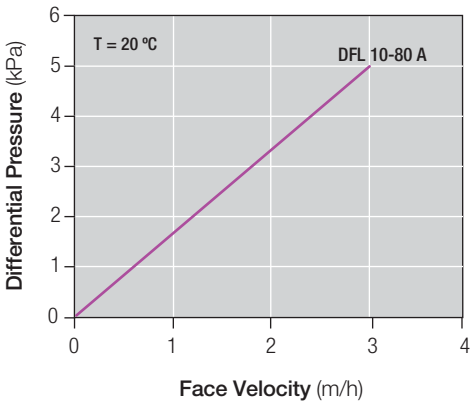
Dia-Filtroplast (DFL)	DFL 10-80 A
Filtration Grade for Liquids	<1 µm
Porosity Grade for Support	40 %
Material Density	0.55 g/cm³
Maximum Backflushing Pressure	6 bar
Specific Permeability (air)	90 10^{-13}m²
Specific Permeability (water)	25 10^{-13}m²
Maximum Temperature	70 °C
Thermal Expansion Co-efficient (25 - 70 °C)	2 10^{-4}/K
Dimensions (Do / Di)	70 / 40 mm

Flow vs Differential Pressure

Differential Pressure for Air Flow



Differential Pressure for Water Flow



General Information

- Custom manufactured connection parts on demand.
- Easy handling during installation.
- All connection parts manufactured from Polyethylene. Gaskets are manufactured from EPDM (standard).

Ordering Information

Part Number	DFL	Type	Do / Di (mm)	Length* (mm)	Area (m^2)	Weight (kg)
84274200	Filter candle	DFL 10-80 A Pin with fixation	70/40	1195	0.22	1.5
84236500		DFL 10-80 A Pin with fixation	70/40	1695	0.33	2.3
84243000		DFL 10-80 A Pin with fixation	70/40	2045	0.41	2.7
89472655	Flanged Filter Candle	DFL 10-80 A	70/40	1040	0.22	1.4
89472756	Suction Device, Candle	DFL 10-80 A Pin	70/40	500	0.10	0.7

[2] Candle length without connection parts. Special dimensions and special products available upon request.

Please contact Pall for enquiries relating to dimensions not specified above.

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Visit us on the Web at www.pall.com

Pall Corporation has offices and plants throughout the world. For Pall representatives in your area, please go to www.pall.com/corporate_contact.asp

Please contact Pall Corporation for product applicability to specific National legislation and/or Regional Regulatory requirements for water and food contact use.

Because of technological developments related to the products, systems, and/or services described herein, the data and procedures are subject to change without notice. Please consult your Pall representative or visit www.pall.com to verify that this information remains valid.

Filtration. Separation. Solution.SM

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