

Description

Lithography Filter for Leading-edge Process

The PhotoKleen™ NTD filter capsule is designed for aggressive organic solvent applications, in advanced, high through-put track systems.

It is available in three filter configurations designed for point of use on advanced track systems (PhotoKleen EZD3X/ PHF12, PhotoKleen EZD3XL/ PHF13) and for chemical cabinet feed system (PhotoKleen EZD/ PHF23).

The PhotoKleen™ NTD filter utilizes an all fluoropolymer construction for the ultimate compatibility and cleanliness. It also offers extremely low pressure drop.

Features

- Easy change out style filter capsule
- Minimized hold-up volume, and top in / top out flow direction, with inlet flow stream down to the bottom
- Guaranteed metal, particle and organic cleanliness¹

Benefits

- Offers extremely low delta-P, enabling use in higher viscosity fluids
- Reduces tool down time during filter start up and change out
- Offers optimized membrane for target application

¹ Contact Pall technical service for device claims



Specifications

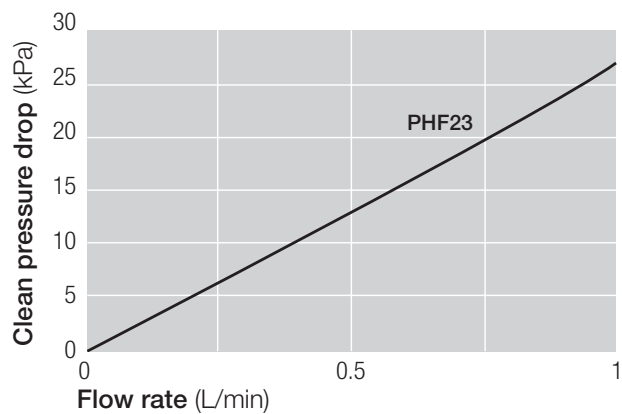
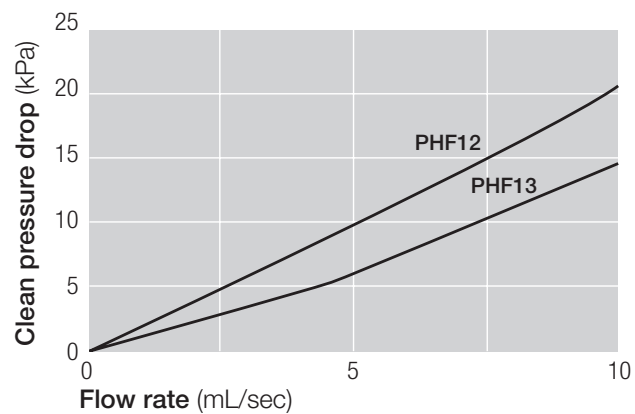
Materials of Construction

Components	Materials ²
Filter Medium	Functionalized PTFE
Support and Drainage	PFA
Core, Cage and End Caps	PFA
Housing	PFA
O-ring	Perfluoroelastomer

² All fluoropolymer materials made without PFOA

Removal Ratings	5 nm
Filter Areas	PHF12 : 1,200 cm ² PHF13 : 2,400 cm ² PHF23 : 2,400 cm ²
Maximum Operating Temperature	PHF12, PHF13 : 30 °C / 86 °F PHF23 : 23 °C / 73 °F
Maximum Operating Pressure	PHF12, PHF13 : 0.29 MPaG @ 30 °C / 42 psig @ 86 °F PHF23 : 0.39 MPaG @ 23 °C / 57 psig @ 73 °F

Typical Flow Characteristics - 1cP fluid, 20 °C



Part Numbers / Ordering Information

PHF12NTD2EH11B

PHF13NTD2EH11B

PHF23NTD2EH11

PhotoKleen™ NTD PHF12NTD2EH11B
requires PhotoKleen™ EZD-3 head manifold



PhotoKleen™ EZD3 head Manifold
(PHF1 Type)

PhotoKleen™ NTD PHF23NTD2EH11
requires PhotoKleen™ EZD head manifold



PhotoKleen™ EZD head Manifold
(PHYG type)

Dummy Capsules



PHFC1B



PHFC2H11

Part Numbers / Ordering Information

PHFC1H11B (for PhotoKleen™ EZD-2, 3 manifolds)

PHFC2H11 (for PhotoKleen™ EZD manifolds)

Specifications

Materials of Construction

Components	Materials
Housing	PFA
O-ring	Perfluoroelastomer
Available head manifold	PHFC1 : Fits into the PhotoKleen™ EZD2/3 manifolds PHFC2 : Fits into the PhotoKleen™ EZD manifolds
Hold up volume	PHFC1 : 1 mL PHFC2 : 14 mL
Maximum Operating Temperature	PHFC1 : 30 °C / 86 °F PHFC2 : 23 °C / 73 °F
Maximum Operating Pressure	PHFC1 : 0.29 MPa @ 30 °C / 42 psi @ 86 °F PHFC2 : 0.39 MPa @ 23 °C / 57 psi @ 73 °F



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