

Description

The IonKleen SL purifier has been specifically designed for the removal of metal ions from organic solvents and mixtures of organic solvents and resins. It is well-suited for use with raw materials used in the production of photoresists and for ultra high purity solvent applications. By utilizing ion exchange groups, which are covalently bonded directly to the surface of a traditional membrane filter, the IonKleen SL purifier provides spontaneous and immediate metal removal from various base solvents and resin solvent mixtures.

Features

- 90% metal removal
- Simplifies purification techniques
- High capacity
- Shipped dry
- Manufactured in a cleanroom environment

Recommended Applications

The IonKleen SL purifier is recommended for solvent point-of-use purification and for use in purifying the precursor materials (solvents, resins and polymers) used in the manufacture of photoresists. It has also shown positive results in the purification of bulk and point-of-use IPA dispense.

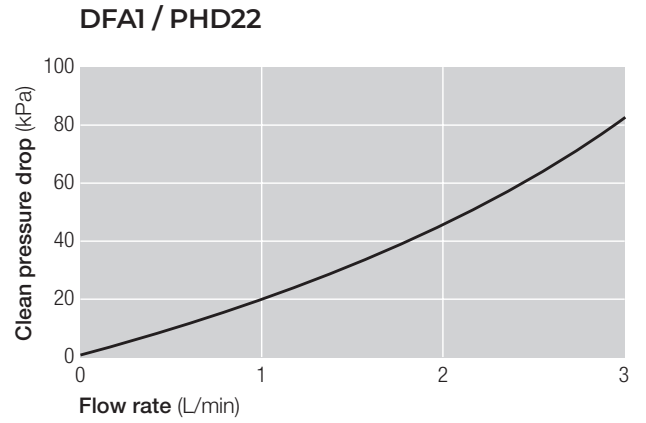
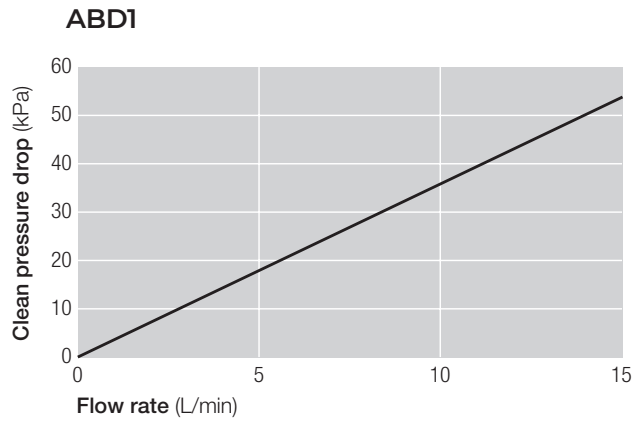


Specifications

Materials of Construction

Components	Materials		
	ABD1	DFA1	PHD22
Configurations	ABD1	DFA1	PHD22
Medium	Modified ultra-high molecular weight polyethylene (UHMWPE)		
Support and Drainage	High density polyethylene (HDPE)		
Core and Cage	High density polyethylene (HDPE)	Polypropylene	High density polyethylene (HDPE)
End Caps	High density polyethylene (HDPE)	Polypropylene	High density polyethylene (HDPE)
Shell	-	Polypropylene	High density polyethylene (HDPE)
Media Area	0.58 m ² / 6.24 ft ²	0.11 m ²	0.11 m ²
Total Metal Ion Exchange Capacity (90% Efficiency)	> 80 meq	> 16 meq	> 16 meq
Maximum Operating Temperature	30 °C / 86 °F		
Maximum Forward Differential Pressure	0.34 MPa / 50 psid		
Maximum Operating Pressure	-	0.49 MPaG (30 °C) / 71 psig (80 °F)	0.39 MPa (23 °C) / 57 psig (73 °F)

Typical Flow Characteristics – 1 cP fluid, 20 °C

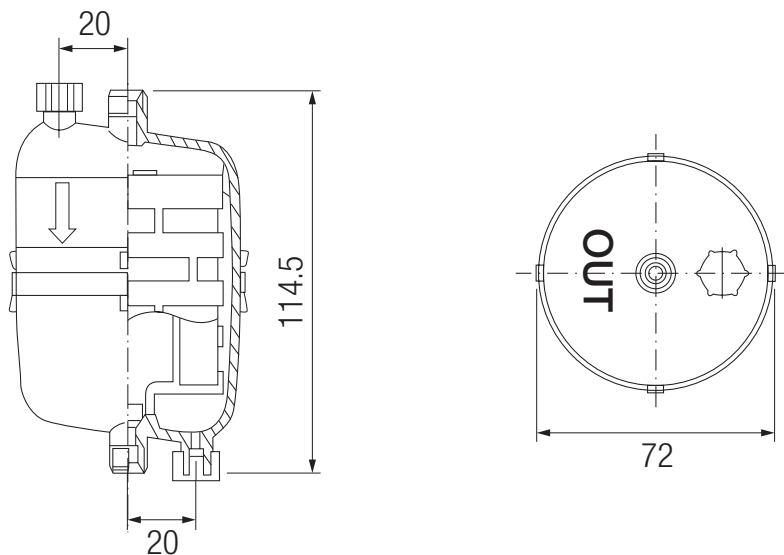


Recommended Flow Rate

Filter Configurations	Recommended Flow Rate in ethyl lactate ¹
ABD1	1.9 L / min
DFA1 / PHD22	0.36 L / min

¹ The clean pressure drop is 19.6 kPa.

DFA Capsule Dimensions



Part Numbers / Ordering Information

ABD1 Cartridge

ABD **1** SRP **2** E **3**

Table 1

Code	Nominal length (mm / in)
1	254 / 10
2	508 / 20
3	762 / 30

Table 2

Code	O-ring Specifications
3	AS568A-222

Table 3

Code	O-ring Materials
H1	FEP Encapsulated Fluoroelastomer

DFA1 Capsule

DFA1SRPESW44

Code	Connections	
	Inlet / Outlet	Vent / Drain
SW44	1/4 in Swagelok ²	1/4 in Swagelok ²

² Swagelok is a trademark of Swagelok Co.

PHD22 Capsule

PHD22SRPEH11

Code	O-ring Materials
H11	Perfluoroelastomer



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