

Description

Ultipleat PKS filter cartridges are designed for high flow rate, aqueous applications required for 6.5G to the newest generation of liquid crystal display (LCD) processes. These filters can handle flow rates up to 250 L/min, thereby reducing the system footprint and change-out costs. Ultipleat PKS filters are available in four filter media types; polypropylene, highly asymmetric hydrophilic polysulfone, polyethersulfone and PTFE with removal ratings from 0.03 µm to 30 µm.

Features & Benefits

- Ideally suited for most LCD wet processing applications, such as developing, etching, stripping and DI water rinsing
- Broad choice of membranes and removal ratings suitable for many different applications
- Patented, crescent-shaped pleat structure allows for high flow rates and long service life
- Compact design makes for efficient filter change-outs, thus reducing equipment down-time



Materials of Construction

Components	Materials			
Filter media	Polypropylene	Highly asymmetric, hydrophilic polysulfone	Hydrophilic polyethersulfone	PTFE
Support	Polypropylene			
Core	Polypropylene			
End caps	Polypropylene			
Sealing options	EPDM, Fluoroelastomer, FEP encapsulated Fluoroelastomer, Kalrez ¹ (AS568A-226 double O-ring)			

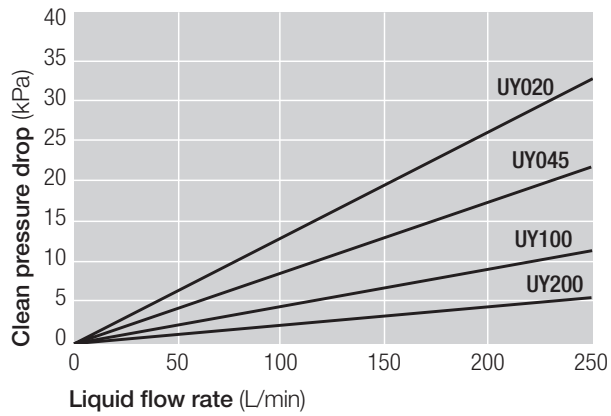
¹ Kalrez is a registered trademark of E. I. du Pont de Nemours and Company

Specifications

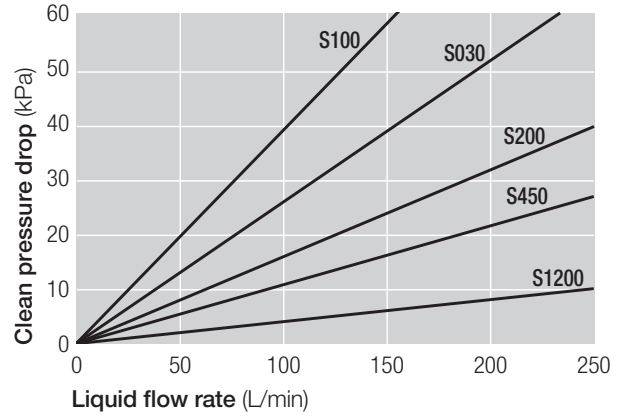
Filter media	Polypropylene	Highly asymmetric, hydrophilic polysulfone	Hydrophilic polyethersulfone	PTFE
Removal Ratings (µm)	2, 4.5, 10, 20, 30	0.03, 0.1, 0.2	0.45, 1.2	1, 3, 10
Maximum Operating Temperature	80 °C / 176 °F			85 °C / 185 °F
Maximum Differential Pressure	0.69 MPa @ 20 °C / 100 psid @ 68 °F 0.34 MPa @ 80 °C / 50 psid @ 176 °F			

Typical Flow Characteristics - 1 cP fluid, 20°C

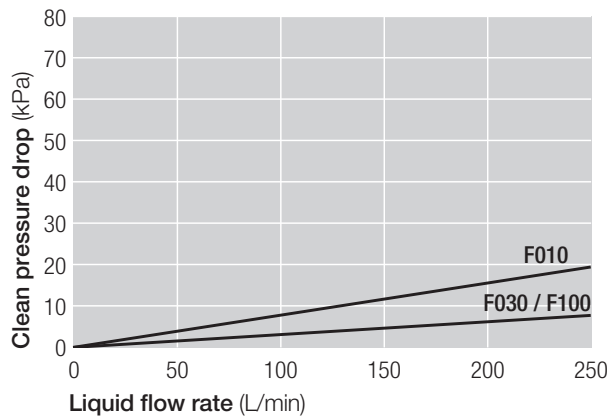
Polypropylene



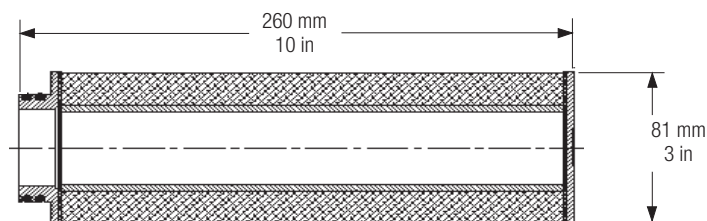
Highly Asymmetric Hydrophilic Polysulfone Hydrophilic Polyethersulfone



PTFE



Dimensions (nominal)



Part Numbers / Ordering Information

UPK310 1 2

Table 1

Code	Filter Media	Removal ratings (µm)
UY020		2
UY045		4.5
UY100	Polypropylene	10
UY200		20
UY300		30
S030		0.03
S100	Highly asymmetric, hydrophilic polysulfone	0.1
S200		0.2
S450	Hydrophilic polyethersulfone	0.45
S1200		1.2
F010		1
F030	PTFE	3
F100		10

Table 2

Code	O-ring materials
J	EPDM
H	Fluoroelastomer
H1	FEP encapsulated fluoroelastomer
H11	Kalrez

Representative example part numbers

(Polypropylene Media)

UPKS310UY020J
 UPKS310UY045J
 UPKS310UY100J
 UPKS310UY200J

(Highly Asymmetric Hydrophilic Polysulfone Media)

UPK310S030J
 UPK310S100J
 UPK310S200J

(Hydrophilic Polyethersulfone Media)

UPK310S450J
 UPK310S1200J

(PTFE Media)

UPK310F010H1
 UPK310F030H1
 UPK310F100H1



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