

Description

Pall's UltiKleen filter is an advanced all-fluoropolymer cartridge that is highly recommended for critical chemical filtration. Prewet filters are guaranteed extractable levels and particle cleanliness levels. The UltiKleen KC Assembly is a completely disposable filter unit, consisting of an all fluoropolymer UltiKleen filter.

Features

- Utilizes an all fluoropolymer filter cartridge ensuring excellent effluent cleanliness
- Eliminates O-rings for KC assemblies
- Low differential pressure
- Low extractable
- Compatible with virtually all chemicals
- 100% integrity tested
- Available in In-line and T-flow styles
- High pressure and temperature capability

Operating Recommendations

- Available prewet as an option
- Proper wetting procedures should be followed if prewet option is not selected. IPA or other low surface tension wetting liquids need to be completely flushed prior to chemical contact.
- Must allow for proper venting



UltiKleen Filters



UltiKleen KC Assemblies

Specifications

Materials of Construction

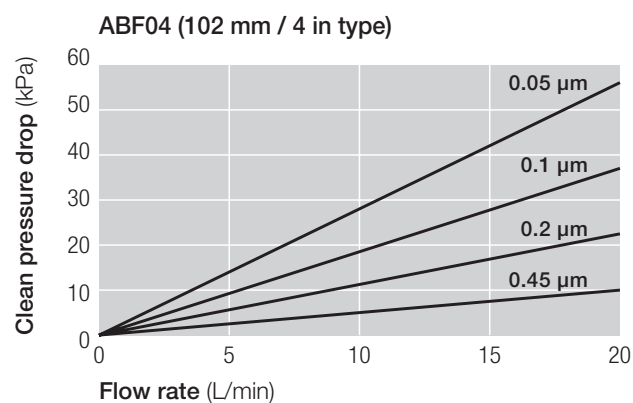
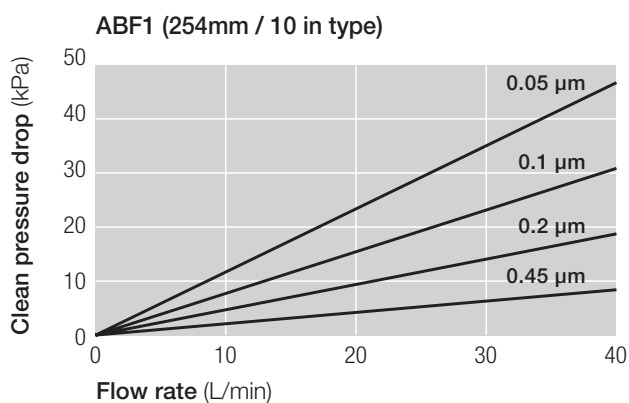
Components	Materials
Filter Medium	PTFE
Media Support	PTFE / PFA
Inner Core / Outer Cage	PFA
End Caps	PFA
Sealing Methods	Melt seal
O-ring (for cartridge)	FEP Encapsulated fluoroelastomer
Housing (for KC type)	PFA

¹ All Fluoropolymer components made without PFOA.

Removal Ratings	FD 0.05 µm	FT 0.1 µm	FR 0.2 µm	FX 0.45 µm
Configurations (KC Assemblies)	T-Flow, In-line			
Configurations (Cartridge Filters)	ABF04	AB1	AB2	AB3
Nominal Filter Areas	0.48 m ² / 5.17 ft ²	1.2 m ² / 13 ft ²	2.4 m ² / 26 ft ²	3.6 m ² / 39 ft ²
Nominal Length	102 mm / 4 in	254 mm / 10 in	508 mm / 20 in	762 mm / 30 in
Maximum Operating Temperature	170 °C / 338 °F			
Maximum Forward Differential Pressure	0.59 MPa < 50 °C / 85 psid < 120 °F			
Maximum Operating Pressure	0.49 MPaG (< 25 °C / 77 °F)			
	0.39 MPaG (< 60 °C / 140 °F)			
	0.34 MPaG (< 90 °C / 194 °F)			
	0.20 MPaG (< 120 °C / 248 °F)			
	0.15 MPaG (< 150 °C / 302 °F)			
	0.12 MPaG (< 170 °C / 338 °F)			

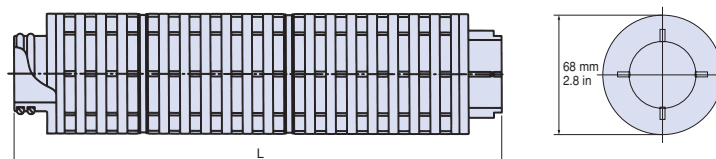
UltiKleen™ Filters

Typical Flow Characteristics - 1cP fluid, 20 °C

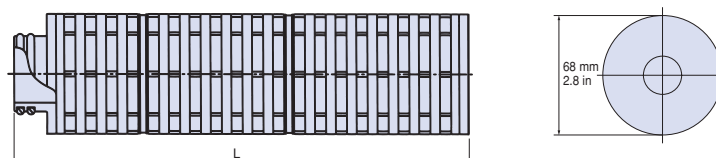


Dimensions

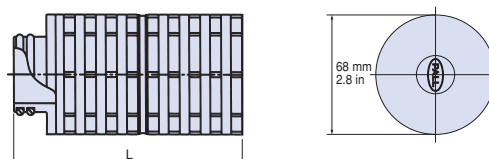
AB Type



MR Type



AB04 Type



Part Numbers / Ordering Information²

ABF 1 UCF 2 3EH1 3

MRF 1 UCF 2 25EH1 3

Table 1

Code	Cartridge Length		
	Nominal	AB type	MR type
04	4 in	130 mm / 5.1 in	-
1	10 in	284 mm / 11.2 in	262 mm / 10.3 in
2	20 in	544 mm / 21.4 in	503 mm / 19.8 in
3	30 in	794 mm / 31.3 in	-

Table 2

Code	Removal Ratings
D	0.05 µm
T	0.1 µm
R	0.2 µm
X	0.45 µm

Table 3

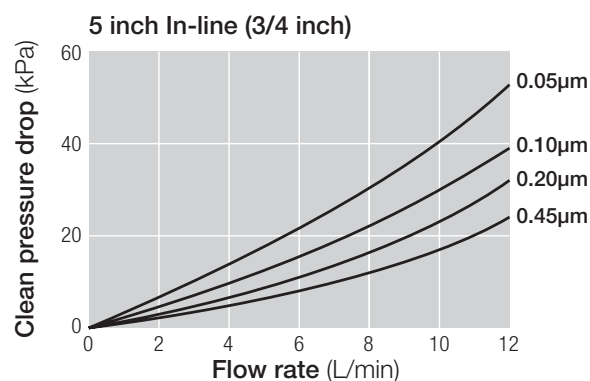
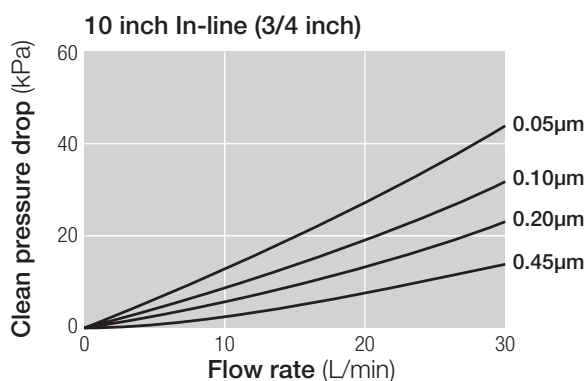
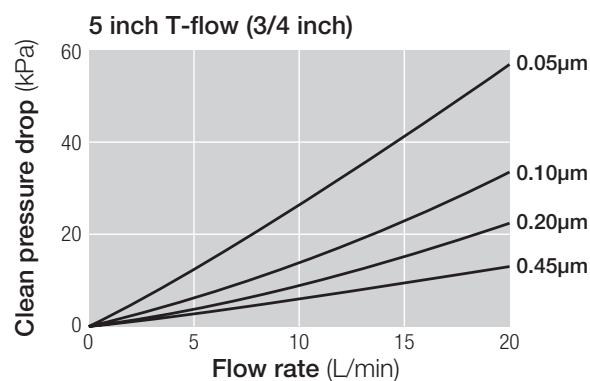
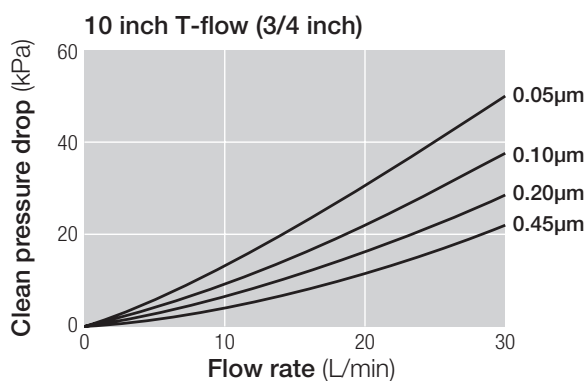
Code	Prewet Option
blank	Without Prewet
-K3	Prewet filter (packaged in DI water)
-K7	Prewet filter (packaged in DI water), Low metal extractables ³

² Part numbers in combination with all codes are not always available. Please contact Pall for the part number availability.

³ Please contact Pall on the extractable conditions.

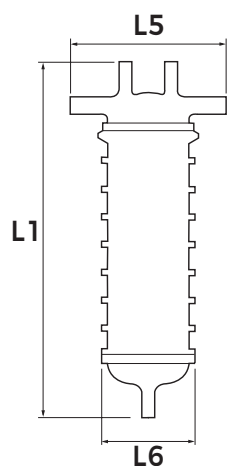
UltiKleen™ KC Assemblies

Typical Flow Characteristics - 1cP fluid, 20 °C

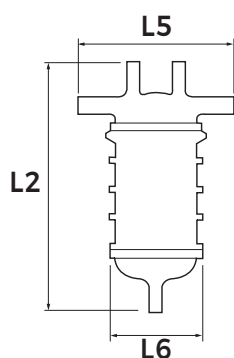


Dimensions by Configurations

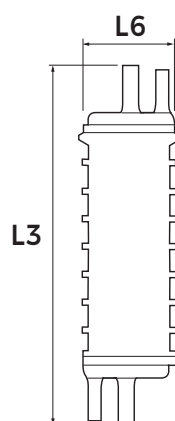
10 inch T-flow



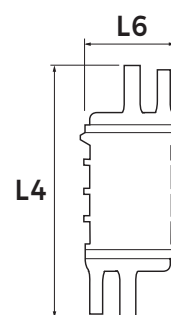
5 inch T-flow



10 inch In-line



5 inch In-line



Nominal Length (mm)

Length	Tube size 3/4 in (Code 13)	Tube size 1/2 in (Code 09)
L1	416	-
L2	281	-
L3	430	420
L4	292	282
L5	180	-
L6	105	106

UltiKleen™ KC Assemblies

Part Numbers / Ordering Information⁴

LDF 1 2 UCF 3 4 E 5 6

Table 1

Code	Flow
T	T-flow
N	In-line

Table 2

Code	Cartridge Size
1	10 in
05	5 in

Table 3

Code	Removal Ratings
D	0.05 µm
T	0.1 µm
R	0.2 µm
X	0.45 µm

Table 4

Code	Tube Size
09 ⁵	1/2 in female
13	3/4 in female

Table 4

Code	Connection Size
06 ⁶	3/8 in male
08 ⁶	1/2 in male
12 ⁷	3/4 in male
64 ⁸	3/8 in male

Table 5

Code	Connections
1	20 series (Flowell)
2	Super Pillar Type (Nippon Pillar)
51	Flare style
6 ⁹	FinalLock
71	Super Pillar 300 P series (Nippon Pillar)
72	Super Pillar 300 P series L type (Nippon Pillar)
8	60 series (Flowell)

Table 6

Code	Prewet Option
blank	Without Prewet
-K3	Prewet filter (packaged in DI water)
-K7	Prewet filter (packaged in DI water) Low metal extractables ¹⁰

⁴ Disposable capsules are not available with every option. Please contact Pall for the part number availability.

⁵ Only for In-line type.

⁶ Only for flare style of In-line type.

⁷ Only for flare style.

⁸ Only for Super Pillar 300 series.

⁹ Only for T-flow type.

¹⁰ Contact your local Pall representative for information about extractables.



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