

# UltiKleen™ STP Filter and KC Assemblies



Data Sheet MEUKSTPENb

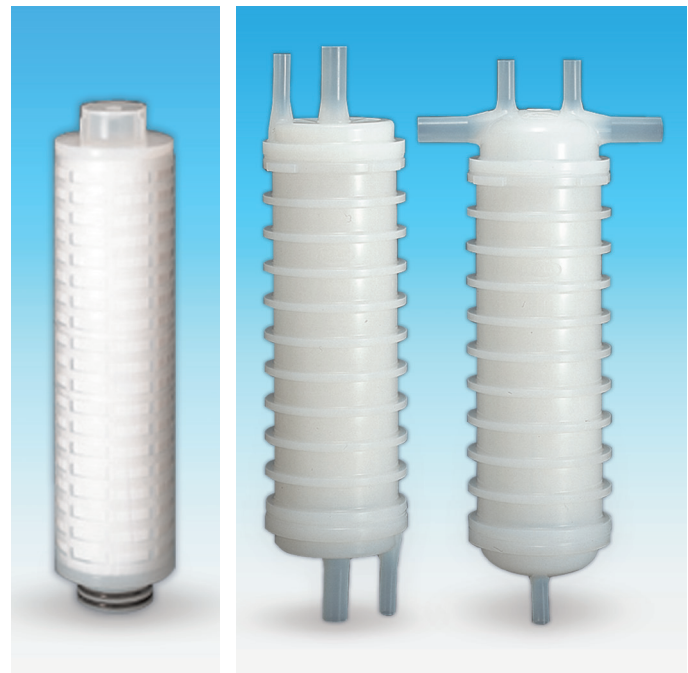
## Description

The Pall UltiKleen STP filter is specifically engineered for filtering organic stripper. In the organic stripping process, a variety of sizes and types of gels and particles are generated as a result of the various ashing processes. The ashing can change the gels to a distribution of fine particles. These fine particles can quickly clog conventional design high surface area membrane filters.

The UltiKleen STP filter is the latest advance in Pall Corporation's stripper filtration offerings. It uses a combination of carefully controlled submicron filter media. The filter is further optimized with gel-capturing, depth matrix media to effectively filter organic stripper. The proprietary media layering construction maintains high flows while removing unwanted particles and gels.

## Features

- Excellent gel retention
- High flow rates
- Low extractables (< 25 ppb in a 5% HCl extraction of 1.5 L for 24 hours)
- Downstream vent option with G2 KC assembly
- Multilayer filter media design
- All fluoropolymer construction
- 100% integrity tested
- Long service life



UltiKleen STP Filter

UltiKleen STP KC Assemblies

## Specifications

### Materials of Construction

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

## Removal Ratings and Operating Conditions

### Removal Ratings

0.05 μm, 0.1 μm, 0.2 μm

### Configurations

Cartridge

102 mm / 4 inch, 254 mm / 10 inch

KC (Kleen-Change®)

T flow, In-line

### Nominal Filter Area

4 inch

0.5 m<sup>2</sup> / 5.4 ft<sup>2</sup>

10 inch

1.2 m<sup>2</sup> / 12.9 ft<sup>2</sup>

### Maximum Operating Temperature

170 °C / 338 °F

### Maximum Forward Differential Pressure (Cartridge)

0.6 MPaG @ 50 °C / 87 psig @ 122 °F

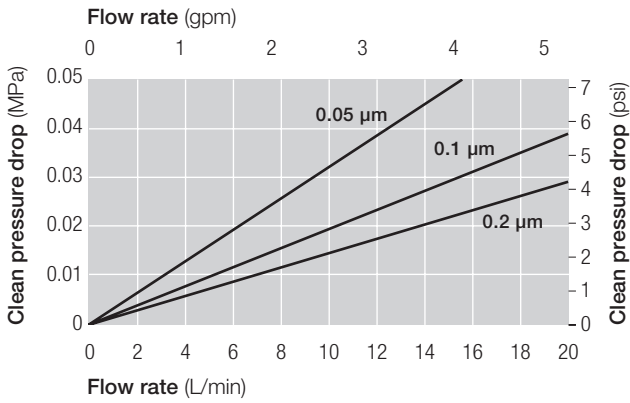
### Maximum Operating Pressure (KC Assemblies)

0.49 MPaG < 25 °C / 71 psig < 77 °F  
 0.39 MPaG < 60 °C / 57 psig < 140 °F  
 0.34 MPaG < 90 °C / 49 psig < 194 °F  
 0.20 MPaG < 120 °C / 29 psig < 248 °F  
 0.15 MPaG < 150 °C / 22 psig < 302 °F  
 0.12 MPaG < 170 °C / 17 psig < 338 °F

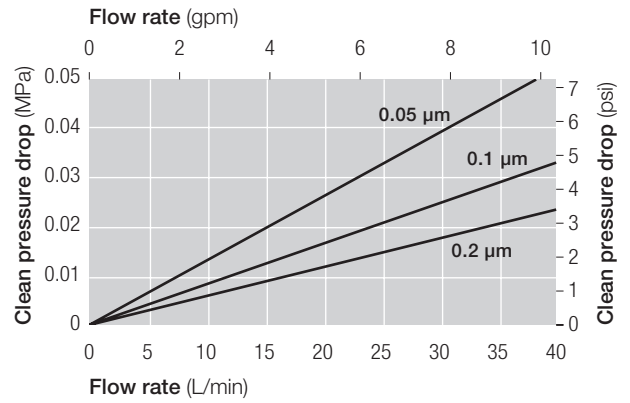
# UltiKleen™ STP Filter

## Typical Flow Characteristics - 1cP fluid, 20 °C

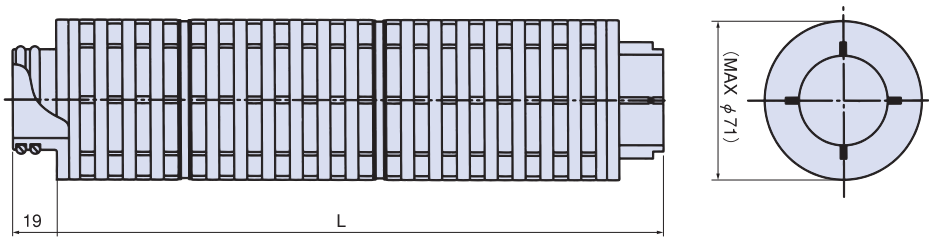
### UltiKleen ABF04 Filter



### UltiKleen ABF1 Filter



## Dimensions



## Part Numbers / Ordering Information

ABF 1 STQ 2 3E 3 4

**Table 1**

Code	Nominal Length	
	Inch	mm
04	4	111
1	10	265

**Table 2**

Code	Removal Rating
D	0.05 μm
T	0.1 μm
R	0.2 μm

**Table 3**

Code	O-ring options
H1	FEP encapsulated fluoroelastomer
H38	Perfrez <sup>1</sup> PXC-Ultra

<sup>1</sup> Perfrez is a trademark of Applied Seals North Americas

**Table 4**

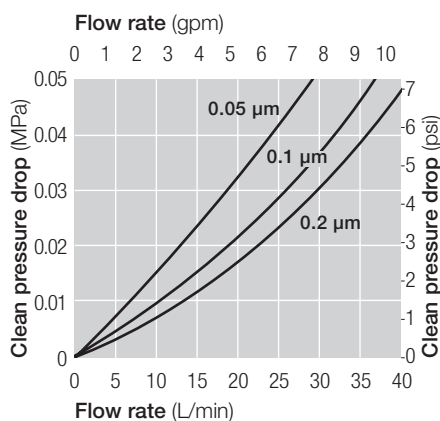
Code	Prewet option
-K3	Prewet filter (packaged in DI water)
-K7	Prewet filter (packaged in DI water), low metal extractables <sup>2</sup>

<sup>2</sup> Please contact Pall for the extractable conditions

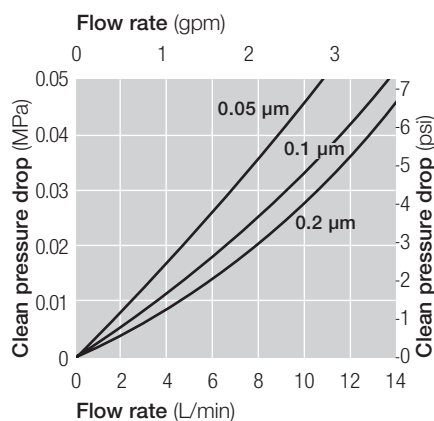
## UltiKleen™ STP KC Assemblies

### Typical Flow Characteristics - 1cP fluid, 20 °C

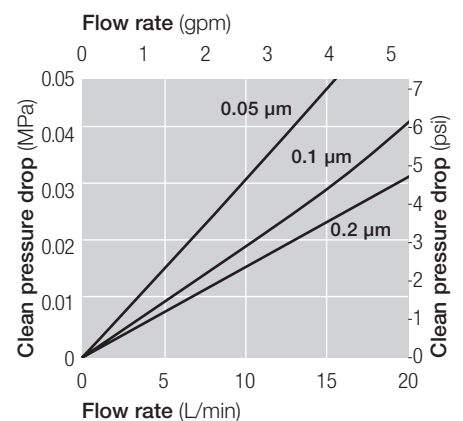
#### 10 in T flow, Inlet : ¾ inch



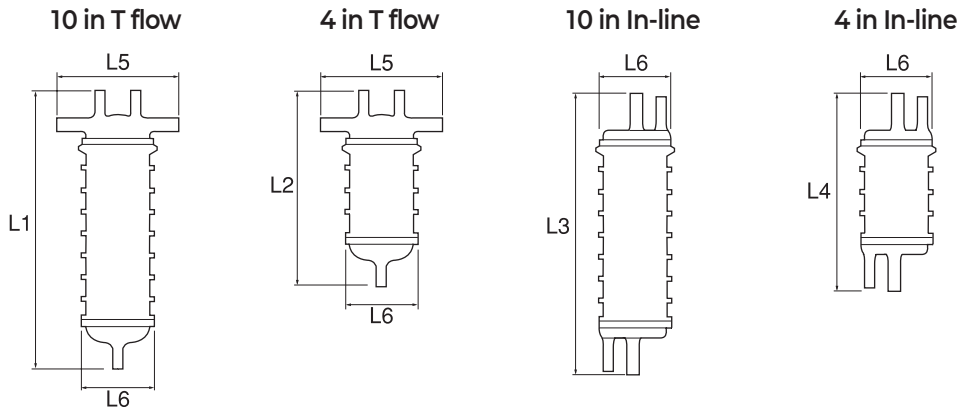
#### 4 in In-line, Inlet : ½ inch



#### 4 in T flow, Inlet : ¾ in



## Dimensions



Symbols	Nominal Length L: mm / in
L1	416 mm / 16.4 in
L2	281 mm / 11.1 in
L3	430 mm / 16.9 in
L4	282 mm / 11.1 in
L5	180 mm / 7.1 in
L6	106 mm / 4.2 in

## Part Numbers / Ordering Information

LDF 1 2 STQ 3 4 E 5 6

**Table 1**

Code	Flow
T	T flow
N	In-line

**Table 2**

Code	Cartridge Length
05	4 inch
1	10 inch

**Table 3**

Code	Removal Rating
D	0.05 µm
T	0.1 µm
R	0.2 µm

**Table 4**

Code	Inlet / Outlet	Vent / Drain		Memo
		Head end	Bowl end	
6	3/8" male	1/4" male	1/4" male	In-line (5 in only)
8	1/2" male	1/4" male	1/4" male	In-line
9	1/2" female	1/2" male	1/2" female	In-line
12	3/4" male	1/2" male	1/2" male	T flow
12	3/4" male	1/4" male	1/4" male	In-line
13	3/4" male	1/2" male	1/2" male	T flow / In-line

**Table 5**

Code	Connections
0	No connection
1	20 Series (Flowell)
2	Super Pillar Type (Nippon Pillar) <sup>3</sup>
51	Flare style
6	FinalLock <sup>4</sup>
71	Super Pillar 300 P Series (Nippon Pillar)
72	Super Pillar 300 P Series L Type (Nippon Pillar)
8	60 Series (Flowell)
9	11 CR Series (Flowell)

**Table 6**

Code	Prewet option
-K3	Prewet filter (packaged in DI water)
-K7	Prewet filter (packaged in DI water), Low metal extractables <sup>5</sup>

<sup>3</sup> Pillar is a trademark of Nippon Pillar Packing Co.

<sup>4</sup> FinalLock is a trademark of Kurabo Industries Ltd.

<sup>5</sup> Please contact Pall on the extractable conditions.

<sup>6</sup> Part numbers in combination with all codes are not always available. Please contact Pall for the part number availability.



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