

## Description

The UltiKleen CDS filter is Pall's standard all-fluoropolymer cartridge for the semiconductor industry. It is designed primarily for use in today's bulk chemical delivery systems.

## Features & Benefits

- Excellent compatibility
- Low extractable levels
- All-fluoropolymer construction
- Three removal ratings available
- High temperature and pressure capabilities
- Optimized crescent-shaped Ultipleat® filter design
- Very high flow rates
- Low differential pressure
- Manufactured in a cleanroom environment
- 100% integrity tested



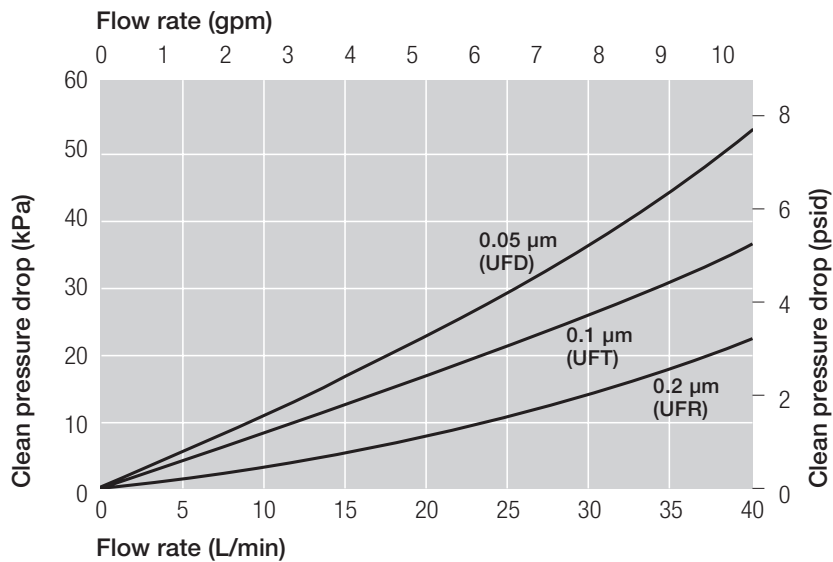
## Materials of Construction

|                        |  |
|------------------------|--|
| <b>Filter Medium</b>   | PTFE                                   |
| <b>Media Support</b>   | PTFE                                   |
| <b>Core</b>            | PFA                                    |
| <b>Cage</b>            | PFA                                    |
| <b>End Caps</b>        | PFA                                    |
| <b>Sealing Methods</b> | Heat Melt Seal                         |
| <b>O-ring</b>          | FEP encapsulated fluoroelastomer, FFKM |

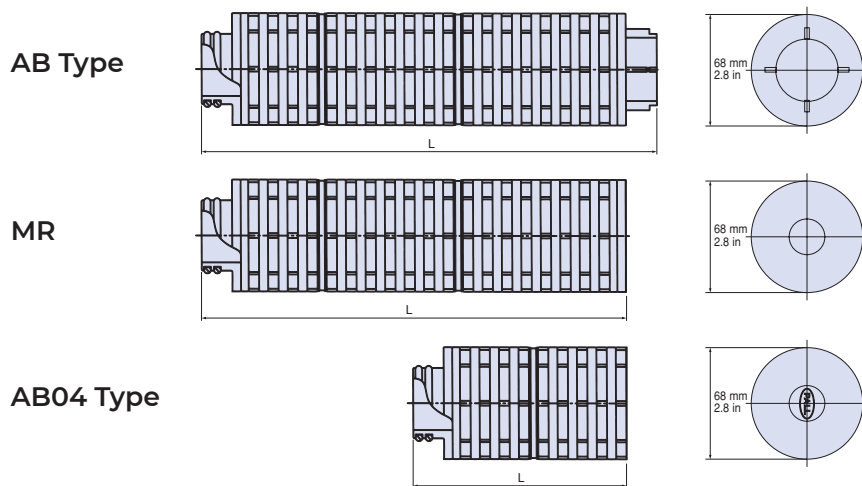
## Specifications

|  |  |   |   |   |
|--|--|---|---|---|
| <b>Removal Ratings</b>                       | 0.2 µm, 0.1 µm, 0.05 µm  |   |   |   |
| <b>Configurations</b>                        | AB04   | ABF1 / MRF1                             | ABF2                                    | ABF3                                    |
| <b>Nominal Filter Area</b>                   | 0.5 m <sup>2</sup> / 5.7 ft <sup>2</sup>   | 1.0 m <sup>2</sup> / 11 ft <sup>2</sup> | 2.0 m <sup>2</sup> / 21 ft <sup>2</sup> | 3.0 m <sup>2</sup> / 32 ft <sup>2</sup> |
| <b>Nominal Length</b>                        | 127 mm / 4 in  | 254 mm / 10 in                          | 508 mm / 20 in                          | 762 mm / 30 in                          |
| <b>Maximum Operating Temperature</b>         | 185 °C / 365 °F  |   |   |   |
| <b>Maximum Forward Differential Pressure</b> | 0.69 MPa < 50 °C / 100 psid < 120 °F<br>0.41 MPa < 110 °C / 60 psid < 230 °F<br>0.24 MPa < 170 °C / 35 psid < 335 °F<br>0.14 MPa < 185 °C / 20 psid < 365 °F |   |   |   |

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



## Dimensions (nominal))



## Part Numbers / Ordering Information

ABF 1 UF 2 3 E 5 6

MRF 1 UF 2 4 E 5 6

**Table 1**

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

**Table 2**

| Code | Removal Ratings |
|------|-----------------|
| D    | 0.05 µm         |
| T    | 0.1 µm          |
| R    | 0.2 µm          |

**Table 3**

| Code | O-ring Size |
|------|-------------|
| 3    | AS568A-222  |

**Table 4**

| Code | O-ring Size |
|------|-------------|
| 25   | AS568A-222  |

**Table 5**

| Code | O-ring Materials                 |
|------|----------------------------------|
| H1   | FEP encapsulated fluoroelastomer |
| H38  | FFKM                             |

**Table 6**

| Code | Prewet Option   |
|------|---|
| -K3  | Prewet filter (packaged in DI water)                                      |
| -K7  | Prewet filter (packaged in DI water), Low metal extractables <sup>1</sup> |

<sup>1</sup> Please contact Pall on the extractable conditions.

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



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*IF APPLICABLE* Please contact Pall Corporation to verify that the product conforms to your national legislation and/or regional regulatory requirements for water and food contact use.

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