

Kleen-Change® In-Line Filter Capsules



Description

Kleen-Change In-Line Capsules are designed for the filtration of a broad range of slurries and liquids compatible with its all polypropylene construction.

- A Pall Profile® II, Profile Star or CMPure filter element is permanently welded into each capsule, eliminating extractables and chemical incompatibility of elastomeric seals, as well as preventing errors due to incorrect cartridge installation.
- Disposable cartridges minimize operator contact with fluid during changeover.
- Use of disposable capsules speeds filter change and reduces equipment downtime.
- The unique construction of the Pall depth filters provides for built-in prefiltration, assuring long service life with steady flux rates, and with no breakthrough of contaminants.

- Profile and CMPure Depth filters provide a sharp boundary between high transmission of native slurry particles and removal of large particles, gels and aggregates.
- Available in various lengths to accommodate 254 mm / 10" (one-high) to 508 mm / 20" (two-high) long filter elements and with 3/8" or 1/4" Flaretek¹ inlet/outlet connections for handling a variety of flow rates.
- The in-line construction permits flow from the bottom of the capsule, potentially resulting in re-suspension of unstable slurries.
- Very low hold-up volumes ensure minimum slurry wastage during change-out.
- Disposable capsules eliminate housing cleaning costs, as well as reducing potential contamination.

Specifications

Materials

- Filter medium: Polypropylene
- Shell, core: Polypropylene

Removal Ratings

Profile II, Profile Star and CMPure filter absolute removal ratings can be 5-10 times finer than traditional ratings for depth filters.

- Profile II filters: 0.3 µm, 0.5 µm, 1 µm, 3 µm, 5 µm, 10 µm, 20 µm, 30 µm, 40 µm and 70 µm
- Profile Star filters: 1 µm, 1.5 µm, 3 µm, 5 µm, 10 µm, 20 µm, 40 µm and 70 µm
- CMPure Depth filters: 0.5 µm, 2 µm, 5 µm, 10 µm, 15 µm, 20 µm, 30 µm and 50 µm

Operating Conditions

- Maximum pressure: 4 bar @ 30°C / 60 psig @ 86°F
- Maximum differential pressure: 4 bar @ 30°C / 60 psid @ 86°F
- Maximum temperature: 30°C / 86°F

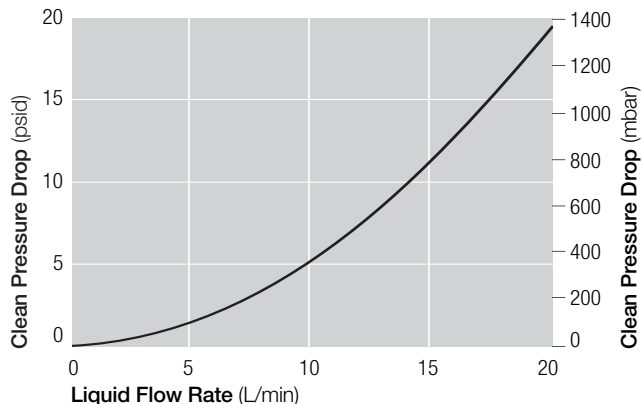
Connections

- Inlet / outlet: 3/8" or 1/4" Flaretek
- Vent / drain: 1/4" Flaretek

¹ Flaretek is a trademark of Entegris Inc.

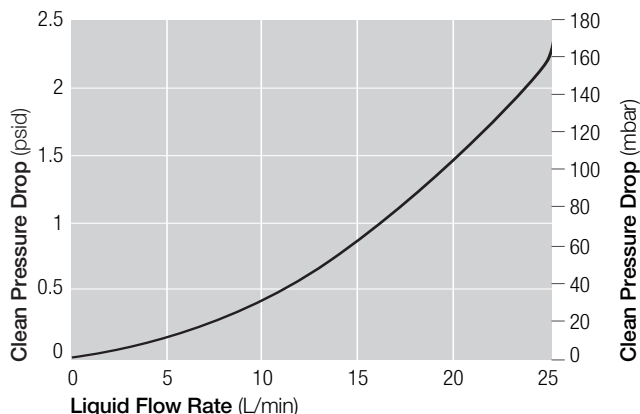
Pressure Drop vs. Liquid Flow Rate

3/8" Flaretek Pressure Drop vs. Flow Rate



Curves represent pressure drop of capsules without filter media.

3/4" Flaretek Pressure Drop vs. Flow Rate



Note: To obtain the total clean capsule pressure drop:

- Multiply the pressure drop from the graphs by the specific gravity of the service liquid.
- Obtain the filter element differential pressure from the specifications of the Profile Star Filter and/or CMPure Filter cartridges.
- Correct the filter element differential pressure for the viscosity of the service liquid and add to the result from (a) above.

Part Numbers / Ordering Information

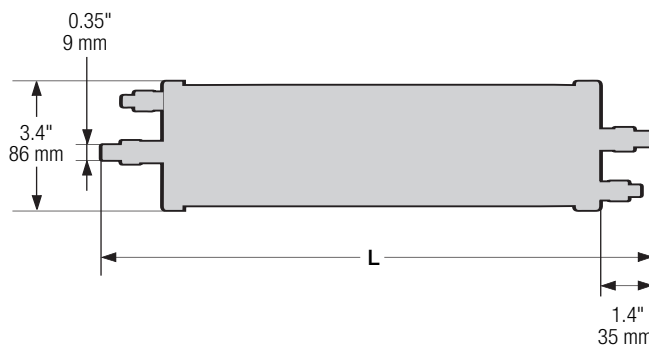
TDY ■ ▲ ●

| Code | Nominal Length L (in / mm) |
|------|----------------------------|
| 1 | 14.4 / 365 |
| 2 | 24.5 / 622 |

| Filter Media Code ▲ ² | | | Removal Rating (µm) |
|----------------------------------|--------------|--------|---------------------|
| Profile II | Profile Star | CMPure | |
| Y003 | - | CMPD03 | 0.3 |
| Y005 | - | CMPD05 | 0.5 |
| Y010 | A010 | - | 1 |
| - | A015 | - | 1.5 |
| - | - | CMPD2 | 2 |
| Y030 | A030 | - | 3 |
| Y050 | A050 | CMPD5 | 5 |
| Y100 | A100 | CMPD10 | 10 |
| Y200 | A200 | CMPD20 | 20 |
| Y300 | - | CMPD30 | 30 |
| Y400 | A400 | - | 40 |
| - | - | CMPD50 | 50 |
| Y700 | A700 | - | 70 |

| Code | Connections |
|------|---------------|
| F06 | 3/8" Flaretek |
| F12 | 3/4" Flaretek |

Dimensions



² Contact Pall Microelectronics for other media and removal ratings.

Unit conversion: 1 bar = 100 kilopascals



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