

PEPLYN TF Wine

Filter Cartridges



PEPLYN TF filters have been specifically designed to protect wine from residual particulate which can remain following primary clarification processes. By combining absolute particle retention, high dirt holding capacity and resistance to blockage with ease of regeneration, PEPLYN TF filters provide the optimum solution for trap filtration.

The carefully constructed polypropylene media ensures insoluble particulate is captured on the surface of the filtration media, in a way that it can be easily removed through backwashing. This feature, combined with the strong, rigid construction provides reliable filtration performance over extended operational lifetimes.

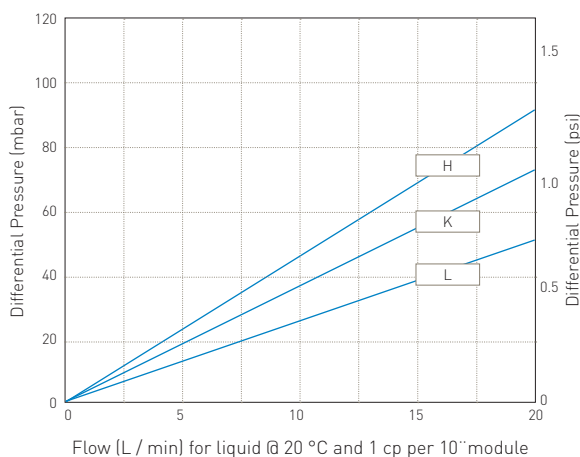
Features

- Robust polypropylene construction designed for chemical CIP and backwash
- High effective filtration area
- A range of absolute retention ratings

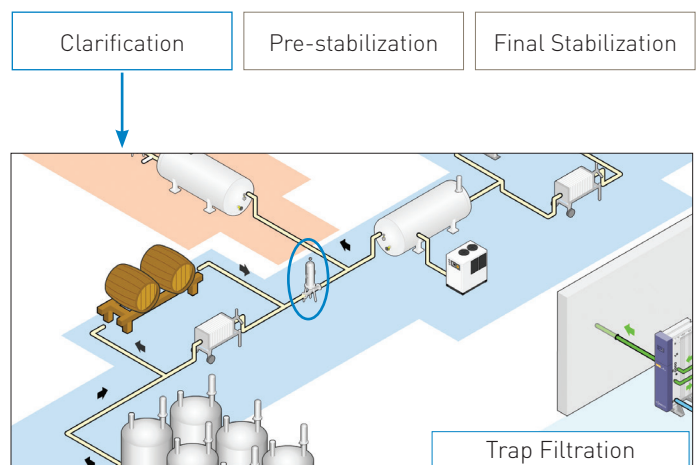
Benefits

- Extended service life when combined with regular CIP regeneration
- High wine flow and resistance to blockage under high loading conditions
- Defined cut-off to powders and flexibility to optimize the filtration

Performance Characteristics



Filtration Stage



Specifications

Materials of Construction

| | |
|--------------------------|----------------------|
| ■ Filtration Media: | Polypropylene |
| ■ Upstream Support: | Polypropylene |
| ■ Downstream Support: | Polypropylene |
| ■ Inner Support Core: | Polypropylene |
| ■ Outer Protection Cage: | Polypropylene |
| ■ End Caps: | Polypropylene |
| ■ End Cap Insert: | 316L Stainless Steel |
| ■ O-rings: | Silicone / EPDM |

Food Contact Compliance

Materials conform to the relevant requirements of FDA 21 CFR Part 177, current EC1935 / 2004 and current USP Plastics Class VI - 121 °C.



Recommended Operating Conditions

Up to 70 °C (158 °F) continuous operating temperature and higher short-term temperatures during CIP to the following limits:

| Temperature °C | °F | Max Forward dP (bar) | (psi) |
|-------------------|--------------|-------------------------|-------|
| 20 | 68 | 5.0 | 72.5 |
| 40 | 104 | 4.0 | 58.0 |
| 60 | 140 | 3.0 | 43.5 |
| 80 | 176 | 2.0 | 29.0 |
| 90 | 194 | 1.0 | 14.5 |
| >100 (steam) | >212 (steam) | 0.3 | 4.0 |

Effective Filtration Area (EFA)

10" (250 mm) Up to 0.7 m² (7.53 ft²)

Cleaning and Sterilization

PEPLYN TF cartridges can be repeatedly steam sterilized in-situ or autoclaved up to 135 °C (275 °F). They can be sanitized with hot water up to 90 °C (194 °F), are compatible with a wide range of chemicals and can be backwashed. Please refer to our Clean-in-Place Support Guide or contact your local Parker representative for more information.

Retention Characteristics

The retention characteristics of PEPLYN TF filter cartridges have been determined by a single-pass technique using suspensions of ISO 12103 Pt. 1 A2 Fine and A4 Course test dust in water.

Micron Rating at various efficiencies

| Efficiency | >99.99% | 99.98% | 99.90% | 99% | 95% | 90% |
|------------|---------|--------|--------|------|------|------|
| Beta Ratio | 10000 | 5000 | 1000 | 100 | 20 | 10 |
| H | 5.00 | 4.70 | 4.50 | 3.50 | 2.30 | 1.00 |
| K | 10.00 | 8.00 | 7.00 | 4.80 | 3.80 | 2.80 |
| L | 15.00 | 12.00 | 10.00 | 7.20 | 6.00 | 4.50 |

Manufacturing Traceability

Each filter cartridge displays the product name, product code and lot number. Additionally, each module displays a unique serial number providing full manufacturing traceability.

Ordering information

| | | | | | | | | | | | | | | |
|------|---|------------------|--|------|---|--------|---|------|--|-------------------|--|------|--|----------|
| PTF | - | | | N | - | | A | | | | | | | |
| Code | | Length (Nominal) | | Code | | Micron | | Code | | End Cap (10 inch) | | Code | | O-rings |
| 1 | | 10" (250 mm) | | H | | 5 | | C | | Fin / 226 Bayonet | | S | | Silicone |
| 2 | | 20" (500 mm) | | K | | 10 | | D | | Fin / 222 | | E | | EPDM |
| 3 | | 30" (750 mm) | | L | | 15 | | E | | Flat Top / 222 | | | | |
| 4 | | 40" (1000 mm) | | | | | | G | | Recess / 222 | | | | |
| | | | | | | | | R | | BF / 222 Bayonet | | | | |

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