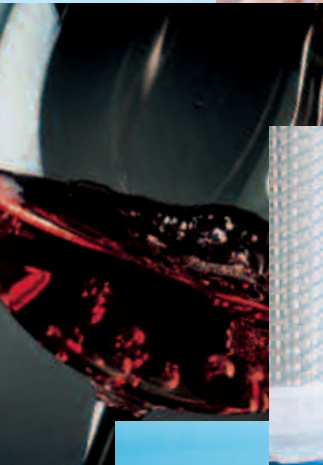


HYBRID PRE-FILTER **WITH STAINLESS STEEL STRUCTURE** **AND POLYESTER FILTER MEDIA**



FLOWSERVE

A cost-effective and versatile solution for the filtration of hot or aggressive liquids.

The Flowserve filter element provides the right answer, both technically and economically, to the majority of applicative problems encountered when liquids are chemically aggressive or at temperatures above 175°F. The unique hybrid construction, with a structure made entirely of stainless steel, and a filter medium in pleated polyester, ensures universal chemical compatibility with an extensive range of liquids and unprecedented mechanical rigidity.

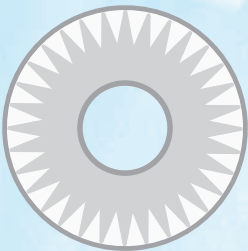
At higher filtration temperatures, the plastic structures of conventional filter elements available today are subjected to extremely high mechanical stress. This is due to normal thermal expansion during heating and subsequent shrinkage during cooling, and causes damage to both the filter medium and the plastic structure, creating cracks that often are not visible to the naked eye. In addition, the filter element, which is usually made from polypropylene, tends to lose stability, causing the partial closure of the pores and bringing filtration to a halt after only brief operating periods.

Flowserve has a completely rigid structure with a zero expansion coefficient.

The polyester membrane retains its stability up to 250°F, maintaining a superior clarification capacity over time, even at high flow rates, good fines retention capacity and low pressure loss, ensuring secure, reliable filtration right up to the end of the process. This cartridge's strong points include: long operating life, even in demanding conditions, wide chemical compatibility, consistent performance and cost-effectiveness.

FLOWSERIE

A cost-effective and versatile solution for the filtration of hot or aggressive liquids



HIGH MECHANICAL RIGIDITY STRUCTURE
PLEATED POLYESTER FILTER MEDIA



FILTRATION SOLUTIONS

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TECHNICAL SPECIFICATIONS

- high structural rigidity up to a temperature of 250°F
- broad chemical compatibility with an extensive range of fluids
- high filtration area and superior fines retention capacity.
- reduced pressure loss and uniform filtration across the entire surface
- polyester filter media, non-fibre releasing
- no colour adsorption or odour release
- backflush regenerable
- all materials meet the requirements of FDA CFR Title 21 for food contacts
- all materials compliant with USP class VI, 'Plastic Biosafety'

OPERATING CONDITIONS

Max. continuous operating temp.	250°F@36 psi (120°C @2,5 bar)
Max. recommended operating Δp	36 psi (2,5 ba)
Back pressure rating (Δp)	21 psi@140°F (1,5 bar@60°C)

RECOMMENDED FLOW RATE (H₂O@68°F/10" – 1.0 psid)

MICRON RATING	0,6 μm	3.5 GPM (13 LPM)
"	1,0 μm	4.0 GPM (15 LPM)
"	3,0 μm	5.0 GPM (19 LPM)
"	5,0 μm	6.0 GPM (22 LPM)
"	8,0 μm	7.0 GPM (26 LPM)
"	10,0 μm	8.0 GPM (30 LPM)

SANITISATION

Hot water sanitisation	30 min.@175°F (80°C)
Steam sterilisation	20 min.@250°F (120°C)
Chemical sanitisation	with commonly available chemical products

FILTRATION GRADES

0,6 – 1,0 – 3,0 – 5,0 – 8,0 – 10,0 μm

Filtration efficiency: 95%

MATERIALS

filter media	polyester
inner support core	304L stainless steel (316L available on request)
outer protection cage	304L stainless steel (316L available on request)
end caps	polypropylene
seals	EPDM (standard), Silicone, Viton®, Buna N, PTFE

SEALING METHOD

Hot polypropylene

DIMENSIONS

Length	10" (254 mm), 20" (508 mm) 30" (762 mm), 40" (1016 mm)
External diameter	2.71" (69 mm)
Internal diameter	1.02" (26 mm)