

Hall Pyke



Depth Pre Filtration

Klearfil

The SMART choice for filtration

Klearfil

Absolute Rated Pleated Depth Filters

A range of absolute rated cartridge filters from Porvair Filtration Group, featuring the latest developments in meltblown polypropylene filter media technology, Klearfil™ cartridges are based on a robust all polypropylene construction, offering removal ratings from 0.5 to 75 micron absolute.

The combination of up to eight separate filtration layers provides true depth filtration, within a pleated cartridge construction. This design will reduce fouling of the filter surface area caused by a broad spectrum of contaminants.

Klearfil™ cartridges are ideally suited for the filtration of process fluids, that contain contaminants with a wide range of particle sizes.



Materials of Manufacture

Filter media:	Polypropylene	Support layers:	Polypropylene
Inner core:	Polypropylene	Outer support:	Polypropylene
End fittings:	Polypropylene	Support ring:	Stainless steel

Gaskets and O-Rings

Ethylene Propylene, PTFE encapsulated, Silicone, Nitrile or Polypropylene felt.

Maximum Differential Pressure

Normal flow direction at:	Reverse flow direction at:
20°C (68°F): 6.0 bar (87lb/in2)	20°C (68°F): 2.1 bar (30lb/in2)
80°C (176°F): 4.0 bar (58lb/in2)	80°C (176°F): 1.0 bar (15lb/in2)
100°C (212°F): 3.0 bar (43lb/in2)	100°C (212°F): 0.5 bar (7lb/in2)
120°C (248°F): 2.0 bar (29lb/in2)	
125°C (248°F): 1.5 bar (29lb/in2)	

Operating Temperature

Maximum continuous: 80°C (176°F)

Table 1 Particle Retention Rating

Code	Pore Rating (microns)	Absolute Rating 99.98% Beta 5000 (microns)	Nominal Rating 99.90% Beta 1000 (microns)	Nominal Rating 90.00% Beta 10 (microns)
KP5	0.5	0.5	0.45	-
K01	1	1	0.7	-
K02	2	2	1.5	-
K03	3	3	2	-
K05	5	5	3	-
K10	10	10	8.5	2
K15	15	15	12	4
K20	20	20	13.5	<5
K30	30	30	20	7
K40	40	40	27.5	11
K75	75	75	65	20

Klearfil continued...

Applications

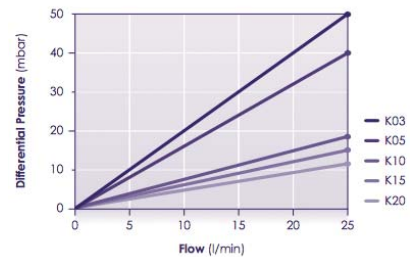
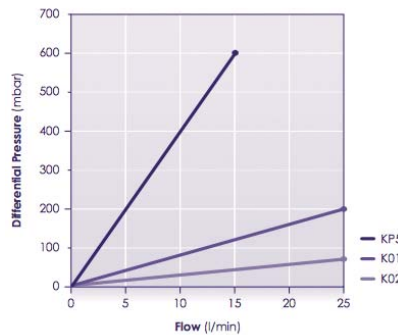
Klearfil™ cartridges provide absolute filtration where reproducibility and consistency of performance are critical. Suitable for the filtration of aqueous and organic liquids, Klearfil™ cartridges can be used as prefilters or final filters in the following applications:

- Pharmaceuticals and Bioprocessing
 - Foods and Beverages
 - Process Water Systems
 - Fine Chemicals
 - Cosmetics
 - Graded multi-layer media
 - Full traceability
 - Environmentally friendly
 - Guaranteed removal ratings
- Klearfil™ cartridges are validated using the recognised industry standard modified OSU-F2 single pass test to Beta 5000 (99.98% efficiency).
- Suitable for steam and hot water sanitisation
- Klearfil™ cartridges are resistant to repeat steam sterilisation up to 135°C (275°F) and hot water cycles at up to 90°C (194°F).

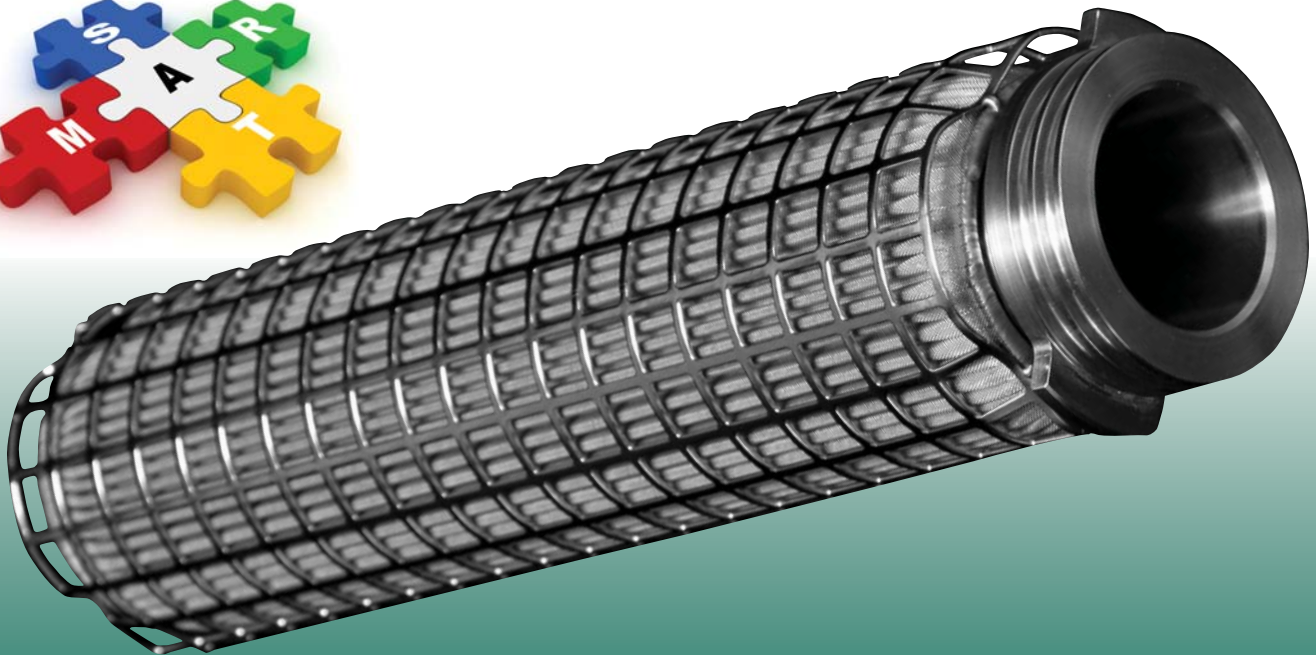
Flow Characteristics

Clean Water Flow Rates

- Typical clean water flow rate:
A 254mm (10") Klearfil™ single cartridge exhibits the flow- ΔP characteristics indicated below, for solutions with a viscosity of 1 centipoise.
- Other solutions:
For solutions with a viscosity of greater than 1 centipoise, multiply the indicated differential pressure by the viscosity in centipoise.



Hall Pyke The SMART Choice



for Steam Filtration

Hall Pyke



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