
SLOPE-PURE

SHPF Type

Major Applications

Various high-concentration dispersions

Various high viscosity liquids, paste

Resin dissolving liquid

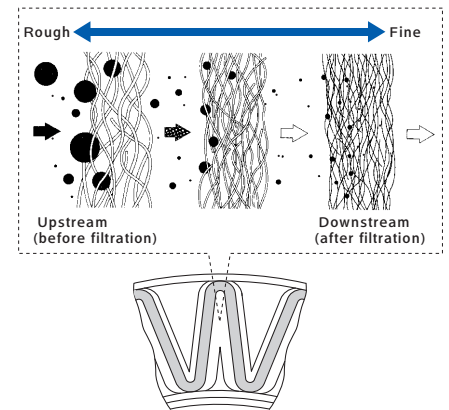
Adhesives

Features

- Optimization of conventional products (SHP) for high-viscosity liquids
- Depth pleated structure with wide filtration grade slope
- Variety of micron ratings
- Polypropylene /Polyethylene filter media, molding parts
- No use of binder or surfactant

Advantages

- Excellent differential pressure vs. flow rate for high viscosity liquids
- High flow rate filtration is possible for liquids with a wide particle size distribution.
- Optimal micron ratings selection according to the purpose
- Wide range of fluid compatibility
- Low extractables risk

Structure

Specifications

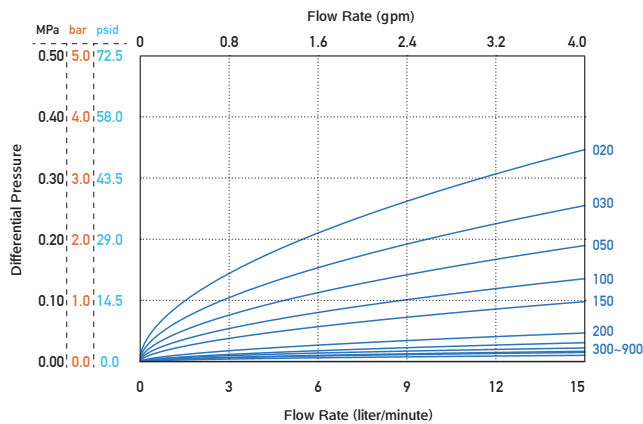
	020	030	050	100	150	200	300	400	500	700	900
Grades	020	030	050	100	150	200	300	400	500	700	900
Micron Ratings (μm)	2.0	3.0	5.0	10	15	20	30	40	50	70	90
E.F.A. ($m^2/250mm$)	0.23	0.22	0.22	0.24	0.22	0.18	0.20	0.19	0.18	0.18	0.18
Media	Polypropylene										
Core/Cage	Polypropylene										
Support	Polypropylene, Polyethylene										
End Cap	Polypropylene										
Maximum ΔP	0.49MPa at 20°C (71psi at 68°F)										
Maximum Operating Temp	80 °C (176°F)										
Length	125/250/500/750 mm										
Dimensions	O.D.	70.0mm									
	I.D.	25.6 (for 0, 5)/26.1 (for F)/29.5 (for 7) mm									
Adaptable Food Sanitation Standard	All raw materials meet the requirement of FDA 21 CFR *1										

*If you need further information on specifications (length, end cap type, etc.), please contact us.

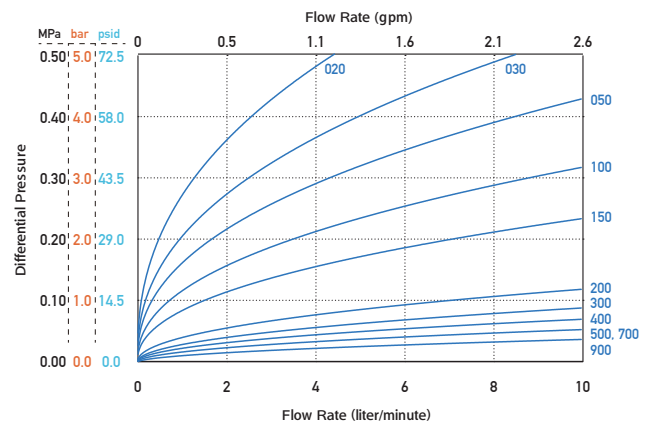
*1 Applicable Gaskets and O-ring materials exclude EPDM.

Differential Pressure vs Flow Rate

Fluid: CMC (1Pa·s at 20°C (68°F)) / Cartridge Length: 250mm



Fluid: CMC (10Pa·s at 20°C (68°F)) / Cartridge Length: 250mm



Particle Removal Efficiency

Grades	Particle Removal Efficiency (%)										
Particle Size (μm)	020	030	050	100	150	200	300	400	500	700	900
2.0	>99	>98									
3.0	>99.9	>99.9	>99.9	>98							
5.0				>99.9	>98						
10					>99.9						
15						>98					
20						>99.9	>98				
30							>99.9	>98			
40								>99.9	>98		
50									>99.9		
70										>98	
90										>99.9	>98

Test Conditions

Equipment : Liquid Particle Counter
 Filtration : Single Pass
 Fluid : Refined Water
 Flow Rate : 10 liter/minute
 Dust : ACFTD + LATEX Beads (SHPF-020~400)
 Diatomaceous earth (SHPF-500~900)

Ordering Information

Length	Product Type	Micron Rating	Gasket/O-Ring	End Cap Code	Packaging Code
2 5 0 L	-SHPF-	0 2 0	E	F	B
125 = 125mm 250 = 250mm 500 = 500mm 750 = 750mm		020 = 2.0 μm 300 = 30 μm 030 = 3.0 μm 400 = 40 μm 050 = 5.0 μm 500 = 50 μm 100 = 10 μm 700 = 70 μm 150 = 15 μm 900 = 90 μm 200 = 20 μm	S = Silicone E = EPDM N = NBR V = FKM T = FEP Encapsulated FKM (for 0, 5, 7) PTFE (for F)	F = Flat Gaskets 0 = 2-222 O-Ring 5 = 2-222 O-Ring + Fin 7 = 2-226 O-Ring + Fin	B = 6pcs C = 10pcs F = 25pcs

End Cap Code

Code F	Code 0	Code 5	Code 7
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*The contents of the catalog are subject to change without notice.

*The performance data listed in the catalog are Typical values obtained under specific conditions based on our tests.

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Manufacturing is based on our Quality Management Systems that meet ISO9001 standards.

Scope

Design, Development, manufacture, and sales of filter cartridges, housings and filtration equipment.



JQA-QMA16323

MS CM009

4th Issue
 SHPF200902E