



SLOPE-PURE

# SHP Type

## Major Applications

Various high-concentration dispersions

Various high viscosity liquids, paste

Resin dissolving liquid

Adhesives

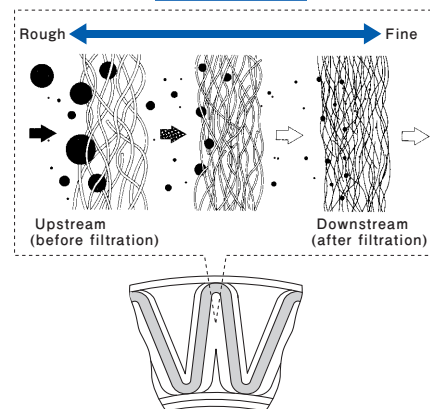
### Features

- High rigid support media
- 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

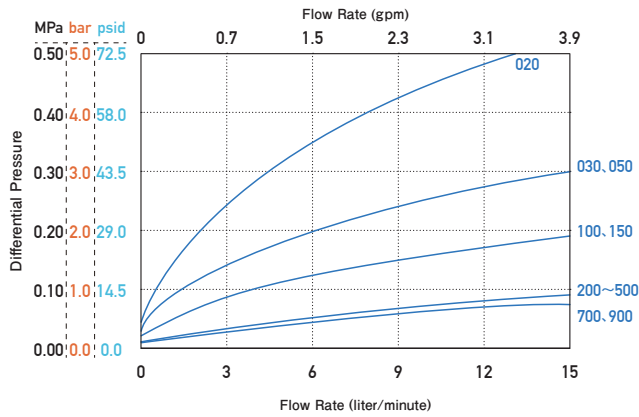
Grades	020	030	050	100	150	200	300	400	500	700	900
Micron Ratings ( $\mu\text{m}$ )	2.0	3.0	5.0	10	15	20	30	40	50	70	90
E.F.A. ( $\text{m}^2/250\text{mm}$ )	0.23	0.22	0.22	0.24	0.22	0.18	0.20	0.19	0.18	0.18	0.18
Media	Polypropylene										
Materials	Polypropylene										
Core/Cage	Polypropylene										
Support	Polypropylene, Polyethylene										
End Cap	Polypropylene (for F, 0, 5, 7)										
Maximum $\Delta\text{P}$	0.49MPa at 20°C (71psi at 68°F)										
Maximum Operating Temp	60°C (140°F) *for End Cap Code PZ only / 80 °C (176°F)										
Length	125 / 250 / 500 / 750 mm										
Dimensions	70.0mm										
O.D.	70.0mm										
I.D.	25.5 (for PZ) / 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.

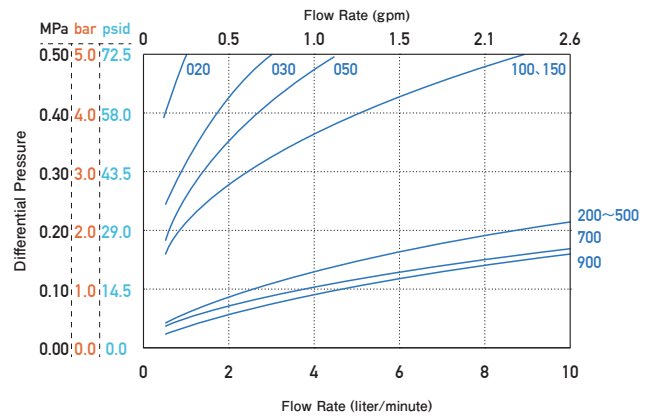
\*1 Applicable Gaskets and O-ring materials exclude EPDM.

## Differential Pressure vs Flow Rate

Fluid: CMC (1Pa-s) / Cartridge Length: 250mm



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

## Ordering Information

Nominal Length	Product Type	Micron Rating	Gasket/O-Ring	End Cap Code	Packaging Code
<b>2 5 0 L</b>	<b>-SHP-</b>	<b>0 2 0</b>	<b>E</b>	<b>F</b>	<b>B</b>
125 = 125mm 250 = 250mm 500 = 500mm 750 = 750mm		020 = 2.0μm    300 = 30μm 030 = 3.0μm    400 = 40μm 050 = 5.0μm    500 = 50μm 100 = 10μm    700 = 70μm 150 = 15μm    900 = 90μm 200 = 20μm	P = Foamed polyethylene S = Silicone E = EPDM N = NBR V = FKM T = FEP Encapsulated FKM (for 0, 5, 7) PTFE (for F)	Z = For P 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



\*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.



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