

## S-SIF Filtration System

Cobetter S-SIF Filtration System Series specifically designed and engineered for industrial fluid filtration. They contain all the necessary components including pressure source (pump), filter housings, stainless steel pipes, pressure gauge, drain valve, and filtration trolley. Customer must connect tube on inlet for operation as the filtration system comes completely assembled.

The system is a multi-stage filtration system and the filter housings can

meet specific requirements and needs. Cobetter can also provide the filter cartridges inside the system to meet application requirements.

In addition, Cobetter can supply different pressure sources: stainless steel water pump, gear pumps, pneumatic pump, air diaphragm pump.

Single-round filter housing system uses tri-clamp connection, while other will use a flange connection. Design pressure can reach 10bar.



**S-SIF I :** 3 Stages - meet the needs of fluids that contain a low solid content but require a high filter retention.

**S-SIF II :** 1st Stage Bag Housing Series; 2nd- 3rd Stages Liquid Filter Housing – meet the needs of fluids with a high solid content. Use of filter bags in the first stage is a more economical method of removing large pore size particles and yields higher filter retention in the latter two stages.

**S-SIF III :** Customized Filtration System

### Design Features

- All systems are mirror polished. Internal surfaces polished to 0.6µm Ra; Easy to clean
- Economical design; Minimum fluid loss



### Surface Finish

Polishing Type	Mechanical Polished		
Surface Option	Sanitary Grade	Internal Ra<0.3µm	Industrial Grade
		External Ra<0.4µm	External Ra<0.6µm

### System Design

For Low Viscosity and Low Solid Content Fluid

Item (P/N)	Recommended Specifications	Reference Flow Rate (<50cp)
S-SIF0010	3 Stage Filtration System H-SCF Housing Series / H-CCF Housing Series (Single-Round)	0.1-0.3T/hr
S-SIF0030	3 Stage Filtration System H-SCF Housing Series / H-CCF Housing Series (3-Round)	0.3-1.5T/hr
S-SIF0050	3 Stage Filtration System H-SCF Housing Series / H-CCF Housing Series (5-Round)	1.5-3.0T/hr
S-SIF0070	3 Stage Filtration System H-SCF Housing Series / H-CCF Housing Series (7-Round)	3.0-5.0T/hr

Remark: filter length can be adjusted to meet the flow rate requirement.

For High Viscosity and High Solid Content Fluid

Item (P/N)	Recommended Specifications	Reference Flow Rate (≈100cp)
S-SIF II 0030	H-TBF (Size1 Bag Housing)+H-ICF(3-Round)+H-ICF (3-Round)	100-300 kgs / hr
S-SIF II 0050	H-TBF (Size1 Bag Housing)+H-ICF(5-Round)+H-ICF (5-Round)	300-1500kgs / hr
S-SIF II 0070	H-TBF (Size2 Bag Housing)+H-ICF(7-Round)+H-ICF (7-Round)	1500-3000kgs / hr
S-SIF II 0090	H-TBF (Size2 Bag Housing)+H-ICF(9-Round)+H-ICF (9-Round)	3000-5000kgs / hr

Remark: filter length can be adjusted to meet the flow rate requirement.

### S-SIF Filtration System Series Operating Conditions

Parameter	Model Selection
Model Selection	0.65Mpa, 0.65-1.0Mpa
Design Flow Rate	<1000kgs/hr; 1000-3000kgs/hr; 3000-5000kgs/hr; 5000-8000kgs/hr; >10000kgs/hr
Operating Pressure	Ambient, 80°C, 100°C, >120°C
Final Stage Filter Pore Size	0.1µm, 0.2µm, 0.45µm.....150µm

