

PENGUIN

Installation & Maintenance

In-Tank Suction Filter System

SERIES A-SF

Models:

- A-100SF
- A-100SFL
- A-200SF
- A-200SFL
- A-400SF

Model
A-100SFL



Model
A-400SF



INTRODUCTION

Series A-SF suction filter systems must be mounted vertically inside the tank with the cartridge fully immersed in liquid and the motor above the liquid. The correct liquid level is halfway between the pump's bung hole and the center line of the pump discharge nozzle.

The pump bracket should be securely fastened to the tank lip using tap bolts or clamping device.

OPERATIONS

CARTRIDGE REPLACEMENT

Each A-SF suction filter system comes equipped with one initial set of 15 micron polypropylene string wound cartridge (S) unless a specific micron size has been previously selected. All cartridges employed must be 2 1/2" OD in order to properly seat into the cartridge holder. Acceptable Penguin cartridges are as follows: (1) Series PF, string wound, 2 1/2" OD, particle reduction (2) Series PC, carbon tubes, styles GC and CP. Specify "2 1/2" OD at time order is placed.

There is no set timetable for cartridge replacement. The frequency of cartridge replacement varies based on:

- (1) Particulate load in fluid and removal capacity.
- (2) Type and amount of contaminant to be removed or adsorbed (carbon).
- (3) Single pass or recirculation system.
- (4) Flow rate and retention time (carbon).
- (5) Temperature.
- (6) pH.
- (7) Viscosity.
- (8) Particle size distribution.
- (9) Permeation rate (carbon).
- (10) Compatibility.

A visual inspection of a drop in flow rate is often satisfactory.

PENGUIN

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MAINTENANCE

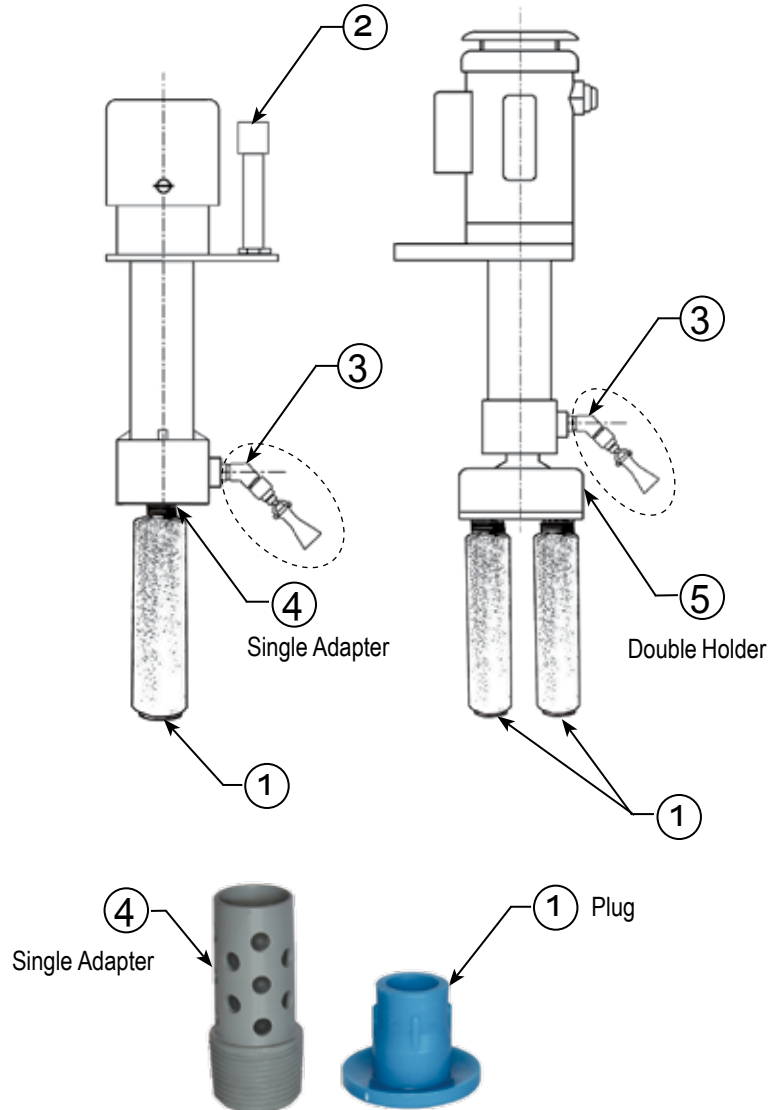
DISASSEMBLY / ASSEMBLY

To change cartridge, loosen thumb screws, pull out spent cartridge, insert new cartridge, and tighten thumb screws snug, hand tight only.

Item	A-SF SUCTION FILTER SPARE PARTS LIST			
1	ASF-A	Plug, CPVC		
	ASF-B	Plug, POLYPRO		
	ASF-C	Plug, PVDF		
2	ASF-Handle	Bracket Handle, CPVC		
3	ASF-100-04AL	Outlet Ass'y, CPVC		
	ASF-100-04AM	Outlet Ass'y, CPVC		
	ASF-100-04AS	Outlet Ass'y, CPVC		
	ASF-100-04BL	Outlet Ass'y, Polypro		
	ASF-100-04BM	Outlet Ass'y, Polypro		
	ASF-100-04BS	Outlet Ass'y, Polypro		
	ASF-100-04CL	Outlet Ass'y, PVDF		
	ASF-100-04CM	Outlet Ass'y, PVDF		
	ASF-100-04CS	Outlet Ass'y, PVDF		
	4	ASF-100-06A-1	Single Adapter, FPT, CPVC	
		ASF-100-06AS	Single Adapter, FPT, CPVC	
		ASF-100-06B-1	Single Adapter, FPT, Polypro	
ASF-100-06BS		Single Adapter, FPT, Polypro		
ASF-100-06C-1		Single Adapter, FPT, PVDF		
ASF-100-06CS		Single Adapter, FPT, PVDF		
5	ASF-200-06A-1	Double Holder-1.0, CPVC		
	ASF-200-06B-1	Double Holder-1.0, Polypro		
	ASF-200-06C-1	Double Holder-1.0, PVDF		
	ASF-400-062A-1	Double Holder-1.0, CPVC		
	ASF-400-062B-1	Double Holder-1.0, Polypro		
ASF-400-062C-1	Double Holder-1.0, PVDF			
Item	A-SF Outlet			
3	ASF-100-04A,B,C Small	P-1/15	1/2"	
	ASF-100-04A,B,C Medium	P-1/6	3/4"	
	ASF-100-04A,B,C Medium	P-1/4	3/4"	
	ASF-100-04A,B,C Large	P-1/2HP	1"	

• A-SF Single

• A-SF Double



* Consult factory for optional CPVC filter plug availability and pricing.

NOTE: Refer to P Series Maintenance/Operation/Spare Parts Manual for details on suction filter system pumps and motors.

See Bulletin 501 for Series PF cartridge filters.

See Bulletin 503 for Series PC-GC carbon tubes.

See Bulletin 704 for Series PE pendants.

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