

Superior Performance  
Unbeatable Pricing  
Pride in Workmanship  
Energy Efficient  
Rugged Construction



## SF -STAINLESS STEEL FILTER SERIES

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### OPERATION MANUAL



使用本機前請熟讀此說明書

SUPER GIANT ENTERPRISE CO., LTD.

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# SUPER

• Model

$\frac{SF}{(1)}$  -  $\frac{12}{(2)}$   $\frac{20}{(3)}$   $\frac{C}{(4)}$  -  $\frac{2}{(5)}$   $\frac{F}{(6)}$   $\frac{4}{(7)}$   $\frac{N}{(8)}$   $\frac{L}{(9)}$   $\frac{A}{(10)}$

- (1) SF - Model
- (2) 12 - cartridge pcs(4,6,8,12..)
- (3) 20 - cartridge length(10",20",30")
- (4) C - cartridge plate fixture  
B - cartridge nut type  
U - Bag
- (5) 2 - In/Outlet  
(1-1/2",2",3",4",5",6")
- (6) F - JIS 10K flange
- (7) 4 - SUS304 T - Ti  
6 - SUS316
- (8) O-ring N : NBR  
E : EPDM  
V : VITON
- (9) L : fixed bracket  
M : removable bracket
- (10) Gauge style  
A - PP pressure gauge  
B - SUS pressure gauge

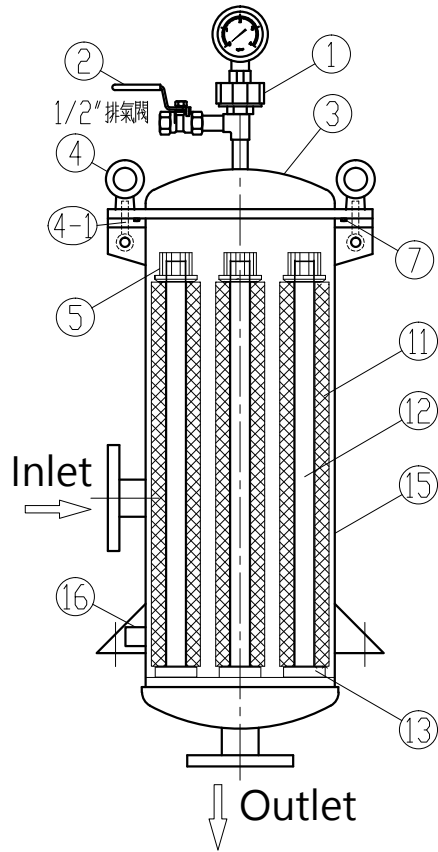
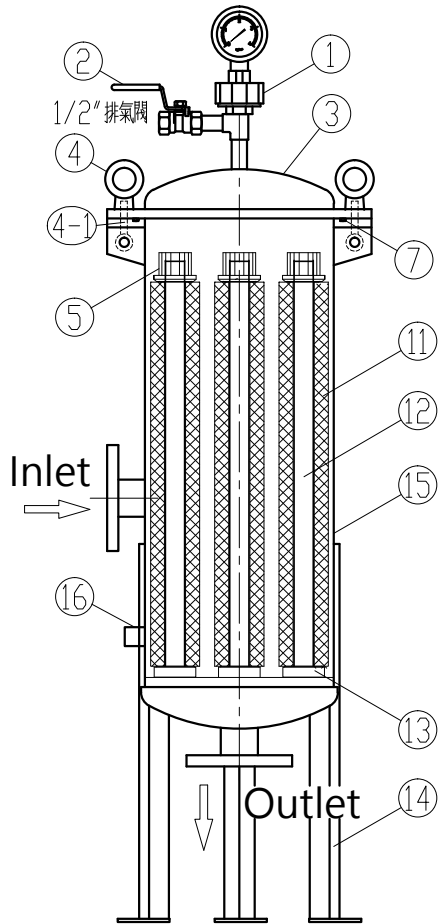
## SPECIFICATION

Model	In/Outlet	Cartridge pcs	cartridge inch	capacity (l/min)	Cover Hanger
110	1/2"~3/4"	1	10	25	X
210	3/4"~1"	2	10	50	X
220	3/4"~1"	2	20	80	X
410	1"~1-1/2"	4	10	80	X
420	1"~1-1/2"	4	20	150	X
620	1-1/2"~2"	6	20	240	X
4161	1"~1-1/2"	4.5"Φ x 16"(1pc)	Bag	120	X
7161	1-1/2"~2"	7"Φ x 16"(1pc)	Bag	340	X
820	1-1/2"~2"	8	20	320	X
8161	1-1/2"~2"	8"Φ x 16"(1pc)	Bag	400	X
630	1-1/2"~2"	6	30	360	X
4321	1"~1-1/2"	4.5"Φ x 32"(1pc)	Bag	250	X
7321	1-1/2"~2-1/2"	7"Φ x 32"(1pc)	Bag	700	X
830	1-1/2"~2-1/2"	8	30	480	X
8321	1-1/2"~2-1/2"	8"Φ x 32"(1pc)	Bag	800	X
1220	2"~3"	12	20	500	X
1230	2"~3"	12	30	600	X
2020	3"~4"	20	20	750	X
2030	3"~4"	20	30	850	X
2720	3"~4"	27	20	800	○
2730	3"~4"	27	30	950	○
3920	4"~5"	39	20	1000	○
3930	4"~5"	39	30	1400	○
5320	4"~6"	53	20	1500	○
5330	4"~6"	53	30	2000	○

# SF-Cartridge Type Parts List

SF-Removable Bracket Type

SF-Fixed Bracket Type



Parts List			
No.	Part	No.	Part
1	Pressure Gauge	11	Cartridge
2	Air Release Valve	12	Cartridge Stanchion
3	Cover	13	Bottom Washer
4	Cover Handle	14	Removable Bracket
4-1	Cover Screw	15	Chamber
5	Cartridge nut	16	Drain nozzle
7	Cover O-ring		

..... **FILTERS**

## 2. Cautions in installation

1. Fix the pipeline to keep it from vibrating or moving.
2. Make sure that the pipe connections are sealed and air is not entering the system.
3. If it is a long pipe with a lot of bends, install a water filling hole to fill solution into the inlet pipe and install a ball valve to control it.
4. If the filter must be installed outdoors, it is essential to provide adequate covering.
5. Before connecting tubing to the pump attachments, the tubes should be washed to remove any extraneous matter there may be such as welding pellets, cut-offs from gaskets, etc.
6. Set a foot-valve at the end of inlet pipe. Secure the inlet pipe to keep it from moving or bending if using soft pipes. (We recommend stiff pipes inside the tank.)
7. Place the machine in an upright position and on a sturdy resting place.
8. When the pump inlet and outlet are lower than the liquid level of the tank, install valves on the inlet and outlet pipe to prevent siphoning.
9. Please make sure that the inlet connecting flange is equal in diameter with the inlet flange, and the outlet connecting flange is the same size as the outlet flange. Please also make sure that all the nuts and bolts are adequately tightened, including the wing nut on the top cover.

Warning: under-tightening and over-tightening may result in flawed performance and even safety hazards. Under-tightening may lead to the development of leaks, while over-tightening may strip or break the bolt. Please have someone experienced in the installation of this type of equipment to set up the system.

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## 3. OPERATION

1. Before operating, please make sure all pipes are well-assembled, and secure the in-outlet pipes to the tanks to avoid vibration. Please refer to the Appendix for figures.
2. Open the air release valve and make sure the liquid fill all of the chamber.
3. Start the motor when the above procedure is finished. Make sure the running direction of the motor is correct. No fluid will come out of the outlet if it is running in the wrong direction. Switching the phase will correct the problem.
4. Before starting the filter, please check the gauge seat of the pressure gauge. It should be full of clean water or oil, then close the gauge tightly to assure its precision.
5. Make sure the in-outlet pipes are installed properly. For example, the in-outlet valves should be open, there should be no flaws in installation, the liquid level should be normal, and there should be no apparent damages on the pipes.
6. When the working environment or liquid is harmful to humans, please wear protective clothing, mask, shoes and any other necessary protective devices.
7. Take the necessary precautions. For example, make sure that the valves, the level of liquid in the tank and the circuit breaker are all within their normal limits.

## 4. MAINTENANCE AND REPAIR

### • Preparing Work

1. Be sure the power is off.
2. Drain out the chemical solvent inside the pump and close the inlet and outlet valves.
3. The service personnel must wear proper protection such as gloves, mask, glasses, overall, and anything else necessary to protect the skin from coming in contact with the liquid being pumped.
4. The height between the tank and the filter must not differ. If it does, it will cause siphoning.

### JUDGEMENT ON CLEANING

1. Judging by visual check - Check the capacity of liquid flowing out from the filter. If the discharge is very low, take apart the filter material for cleaning.
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## 5 . TROUBLE SHOOTING

Trouble	Possible Cause	Remedy
Imperfect filtration.	Cartridge plate fixture and handle are not fully secured or tamis bags are not in place.	Examine if the parts are positioned correctly and lock by the plate fixture tightly.
	There are impurities remaining in the barrel.	Clean the barrel with some clean water when cleaning filter.
No liquid appears from the outlet and the pressure is very high during operation.	Filter medium and outlet pipe are blocked.(For example, valves are not open.)	Clean the medium or examine outlet pipe. Open in-outlet valves.
The filter medium is cleaned. There is little outpouring of liquid and the pressure is high.	Filter medium's tubes are blocked; impurities can't be removed.	Replace the whole filter cartridges with new ones.
No liquid appears in outlet and no pressure indications.	No liquid appears inside of chamber.	Check and repair the pump.
	Inlet valves are not open.	Check the inlet pipe.
	Air is sucked in the inlet pipe or the pipe is blocked.	Open inlet valves.
There is little outpouring and air is mixed in.	The pump sucks in air.	Check the inlet pipeline for leaks.
	The liquid tank's pipe is too close to the filter's inlet pipe or the inlet pipe has become loose.	1. Keep the tank's pipe farther from inlet pipe. 2. Check & fix the pipe constantly to avoid air being sucked in.
Pressure gauge doesn't work.	Pressure gauge & gauge seat is not well sealed.	Take off the gauge, wrap up with tape seal and re-install.
	The gauge is damaged. The gauge seal is damaged. The inside part of gauge seat seal is not filled with liquid.	Replace the gauge with new one. Replace the gauge seal with new one. Take the gauge apart and add some clean water.
The pressure gauge is not accurate.	The inside part of gauge seat seal is not filled with liquid.	Take the gauge apart and add some clean water.
	Deformed seal.	Replace the seal.
	The gauge is damaged.	Replace the gauge.
A little leakage from filter's cover.	Cover O-ring is not clean.	Wash the O-ring neat.
	Impurity on the surface of barrel.	Clean the surface of barrel.
	The O-ring is damaged or the rubber material got hard	Replace the O-ring with a new one.
Low flow rate from the outlet, but there isn't any problems with the medium.	Motor rotating the wrong direction. Pump impeller is stuck.	1. Correct the contact line of motor. 2. Clean out the impurities.

### Filter Maintenance Record

Series No. : \_\_\_\_\_

Date: / / ~ / /

Week	Morning					Afternoon					Before Cleaning	After Cleaning	Surface Cleaning	Sign
	H	M	Cap.	Presu. (Kg)	Air Drain	H	M	Cap.	Presu. (Kg)	Air Drain	Pressure (Kg)	Pressure (Kg)		
Mon.														
Tue.														
Wed.														
Thu.														
Fri.														
Sat.														
Sun.														

Series No. : \_\_\_\_\_

Date: / / ~ / /

Week	Morning					Afternoon					Before Cleaning	After Cleaning	Surface Cleaning	Sign
	H	M	Cap.	Presu. (Kg)	Air Drain	H	M	Cap.	Presu. (Kg)	Air Drain	Pressure (Kg)	Pressure (Kg)		
Mon.														
Tue.														
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Fri.														
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Week	Morning					Afternoon					Before Cleaning	After Cleaning	Surface Cleaning	Sign
	H	M	Cap.	Presu. (Kg)	Air Drain	H	M	Cap.	Presu. (Kg)	Air Drain	Pressure (Kg)	Pressure (Kg)		
Mon.														
Tue.														
Wed.														
Thu.														
Fri.														
Sat.														
Sun.														

Remark:

1. For Cap., please fill in "High" "Mid." "Low".
2. For Air Drain, please fill in "Much" "Little".

## FAQ

1. How to check capacity of outlet?

Answer: Generally the outlet is inside the tank. It is difficult to check the capacity. Settle a 3-direction joint above the liquid to check the liquid injection. For example, the original outlet piping is 2", and the additional injection outlet should be 3/4". We can check the capacity by the liquid runs through the additional outlet.

2. Why the pressure gets high?

Answer: High pressure means serious block and it is necessary to clean or replace the cartridge. While replacing new or cleared cartridge, the pressure shown should be lower than 0.3 kg. It is normal if the pressure gets high generally.

3. Why the pressure gets high soon?

Answer: Most of capillary on the cartridge is blocked and can not be cleaned. Replace a new one.

4. Why the cartridge replacing frequently?

Answer: It needs higher pressure to get the liquid runs through the low quality cartridge. For high quality cartridge, outer capillary is bigger than inner capillary, but for low quality cartridge, it is the same and once the outer capillary is blocked, the pressure will get high and cause replacing the cartridge frequently.

5. Why do we need to drain the air?

Answer: The hydrogen stay in the barrel may cause exploding and it is necessary to drain out. Some other air may gets into the barrel through the inlet, the joint, the crack of piping or the air mixer. Clean the air drain valve frequently.



## Quality Guarantee

Model:

Serial No.:

All the **SUPER GIANT** products have passed strict quality control and fulfill the filtration standard stated in our catalogue. They will run in excellent condition under proper operation and good maintenance.

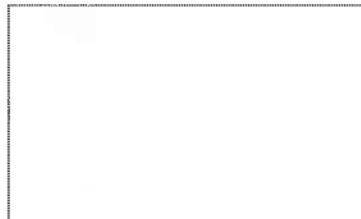
1. Please store this guarantee properly and show it when necessary.
2. Super Giant Enterprise company will charge for repair under the following conditions.
  - The damage is caused by non-permitted repair, or improper maintenance or operation.
  - The product is broken by natural disasters such as earth quake or fire.
3. The consumable parts and accessories are not covered in the guarantee.
4. guarantee period: 1 year after delivery

If you have any question, please contact our dealer or Super Giant Enterprise directly.

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While placing your order...

Please kindly provide us the following information.

1. Chemical: Name/Concentration/Temperature/  
Specific Gravity/Viscosity

2. Capacity needed: \_\_\_\_\_ L/min

3. Head needed: \_\_\_\_\_ M

4. Power: Voltage/Frequency

訂購時請提供下列資料:

1. 藥液條件: 名稱/溫度/濃度/比重/黏度

2. 需求流量: \_\_\_\_\_ L/min

3. 需求揚程: \_\_\_\_\_ M

4. 馬達: 電壓/頻率

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