

# Series SFH/SPT

SELF-CLEANING FILTER  
SINGLE AND MULTIPLE  
STANDARD CONSTRUCTION



## MAIN APPLICATIONS:

- DESALINATION
- WATER TREATMENT
- FINE CHEMICAL
- PETROCHEMICAL
- OIL & GAS
- FOOD & BEVERAGE
- PHARMACEUTICAL
- MICROELECTRONIC
- POWER GENERATION
- STEEL MILL
- PAPER MILL
- IRRIGATION
- GENERAL INDUSTRY

## CHARACTERISTICS:

- Construction materials:
  - 304L SS (*standard*)
  - 316L SS
  - (*other materials available as option*)
- Conform to code:
  - AD 2000
- Suitable for liquid Gr. 2 filtration
- Conform to 97/23/CE Directive
- Regeneration without flux interruption
- Minimum water loss during back-washing cycle
- High efficiency cleaning thanks to the localized cleaning system
- High filtering area
- Arrangement with pre-filtration basket available
- Total access to internals
- Easy opening for a friendly maintenance
- Compact design
- Fully automatic back-washing control
- Hydraulically or electrically driven cleaning
- In/out connection up to 16" (DN 400)
- Flow-rate up to 400 m<sup>3</sup>/h for single body design
- Flow-rate up to 1500 m<sup>3</sup>/h for multiple body design
- Filtration rating from 15 to 3000 µm

# ASCO FILTRI

**ASCO Filtri S.p.A.**

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## TECHNICAL DATA

### CONSTRUCTION MATERIAL

- Body:  
- 304L SS  
- AISI 316L (as option)  
Filtering basket:  
- 316L SS

### GASKET

- EPDM

### IN/OUT CONNECTION

- Up to 16"

### FLOW-RATE

- Up to 1500 m<sup>3</sup>/h

### DESIGN DATA

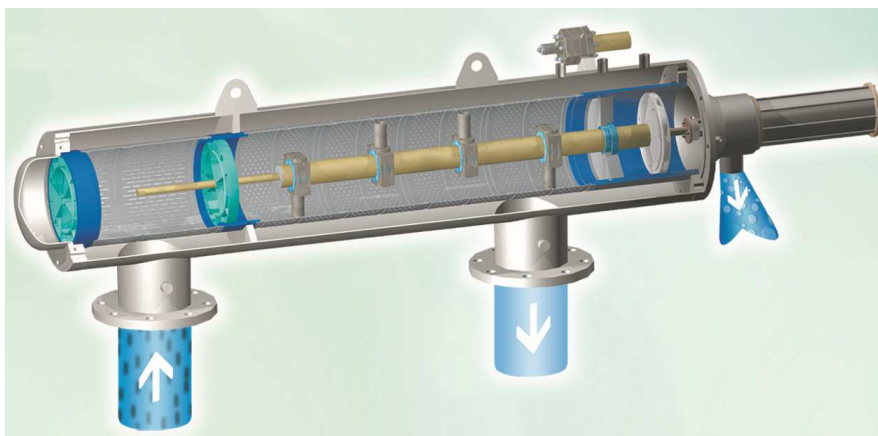
- 10 barg @ 60 °C

### DELTA-P AT CLEAN FILTER

- Max. 0.2 barg

### ACCESSORIES

- Differential pressure switch
- Control unit
- Isolation valves
- Station isolation valves
- Vent valve
- Drain valve



### Operating principle:

SFH and SPT filtration systems, are designed for industrial water, well water or surface water filtration.

Designed for continuous operation, these equipment can be cleaned without any additional external water supply.

According to the flow-rate, the inlet water should be handled by one or more filters installed in parallel, connected with common headers.

### Filtration phase:

For **PF** and **PT** series, filtration is provided in two separate chambers: firstly in a pre-filtration section and secondly in the final filtration section.

The dirty water feed the filter and from outside to inside pass through the pre-filtering basket; then water moves inside to the final filtering basket, filtration is done from inside to outside, depositing the solids particles on the internal surface of the basket.

For the cheapest series **SFH** and **SPT**, there is no pre-filtration section; filtration is done directly in the final filtering basket.

On both cases, the continuous collection of solids particles on the filtering surface, generates a differential pressure growth; when the pre-set value is reached (usually 0.6 barg), the cleaning cycle automatically starts.

### Regeneration:

When the differential pressure switch detect the pre-set Delta-P value, send a signal to the control unit that provide to starts the cleaning cycle. The control unit provide to activate the cleaning scanner rotation and translation as well as to open the automatic drain valve.

Through the "Venturi" effect nozzles provided on the cleaning scanner, the collected solids particles are sucked and removed from the basket than purged out thanks to the automatic drain valve.

The contemporary rotation and translation of the cleaning scanner provided by the specific hydraulic piston, ensure the complete cleaning of the filtering surface.

### Back-washing data:

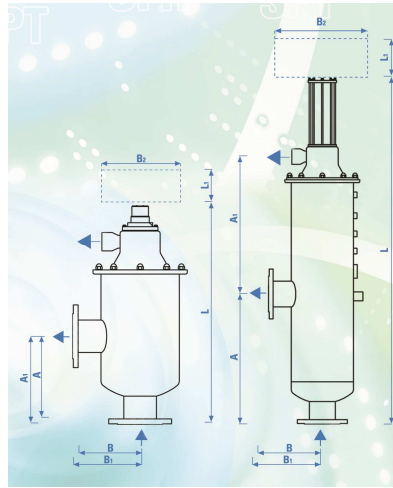
Minimum working pressure	2 barg
Back-wash duration	15 ÷ 25 seconds
Water loss during back-wash	150 ÷ 200 litres / cycle

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### Series SFH and SPT dimension:



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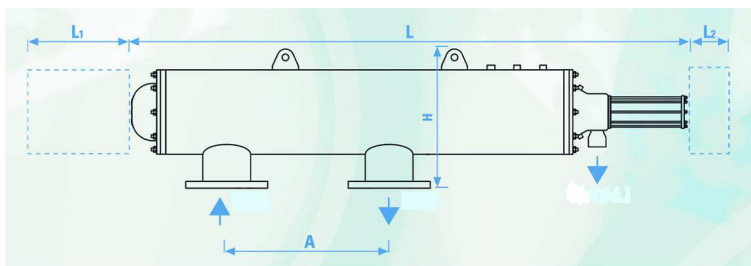
### MAIN APPLICATIONS:

- WELL WATER
- RIVER WATER
- COOLING TOWER WATER
- COOLING WATER
- PROCESS WATER
- WASTE WATER

Model	Dimension [mm]								Flow-rate [m³/h]	Area [m²]	Weight [kg]		
	A	A1	B	B1	B2	L	L1	In/out			Empty	Full	
SFH110102	265	-	190	-	370	730	260	2"	GAS-F	25	0.12	30	55
SFH110103	280	-	205	-	370	745	260	3"	GAS-F	40	0.12	30	55
SFH110104	-	310	-	235	370	775	260	DN 100	PN 10	80	0.12	35	60
SFH110202	365	-	190	-	370	930	260	2"	GAS-F	25	0.24	35	65
SFH110203	380	-	205	-	370	945	260	3"	GAS-F	40	0.24	35	65
SFH110204	-	410	-	235	370	975	260	DN 100	PN 10	80	0.24	40	70
SFH110206	-	460	-	285	370	1025	260	DN 150	PN 10	120	0.24	50	80

Model	Dimension [mm]								Flow-rate [m³/h]	Area [m²]	Weight [kg]		
	A	A1	B	B1	B2	L	L1	In/out			Empty	Full	
SPT110303	575	598	205	-	370	1500	500	3"	GAS-F	40	0.36	45	75
SPT110304	605	598	-	235	370	1530	500	DN 100	PN 10	80	0.36	53	83
SPT110306	655	598	-	285	370	1580	500	DN 150	PN 10	120	0.36	57	87
SPT110308	655	598	-	285	370	1580	500	DN 200	PN 10	200	0.36	63	93
SPT110403	675	698	205	-	370	1700	500	3"	GAS-F	40	0.48	52	82
SPT110404	705	698	-	235	370	1730	500	DN 100	PN 10	80	0.48	60	90
SPT110406	755	698	-	285	370	1780	500	DN 150	PN 10	120	0.48	64	94
SPT110408	755	698	-	285	370	1780	500	DN 200	PN 10	200	0.48	80	110

### Series PF dimension:



Model	Dimension [mm]						Flow-rate [m³/h]	Area [m²]	Weight [kg]		
	A	L	L1	L2	H	In/out			Empty	Full	
PFH110404	900	1970	1300	500	455	DN 100	PN 10	100	0.48	95	175
PFH110604	900	2445	1700	500	455	DN 100	PN 10	100	0.72	110	220
PFH110406	900	1970	1300	500	455	DN 150	PN 10	120	0.48	105	190
PFH110606	900	2445	1700	500	455	DN 150	PN 10	140	0.72	120	235
PFH112406	900	2055	1300	500	535	DN 150	PN 10	180	0.48	115	275
PFH112606	900	2585	1700	500	530	DN 150	PN 10	200	0.72	135	300
PFH112608	900	2585	1700	500	530	DN 200	PN 10	320	0.72	140	310
PFH112610	900	2585	1700	500	535	DN 200	PN 10	400	0.72	150	325



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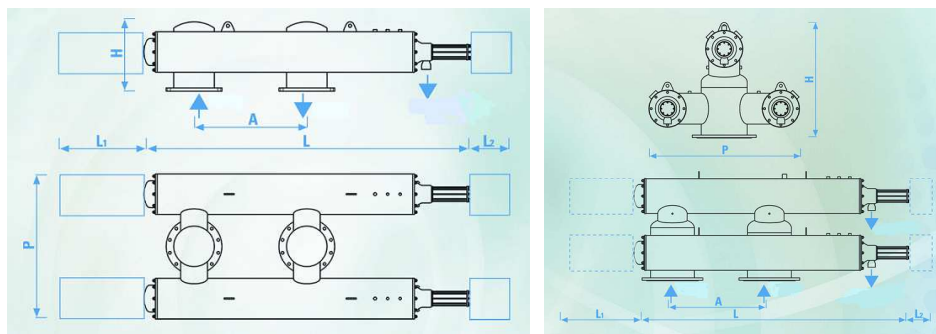
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# Series SFH/SPT

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## Series PT dimension:



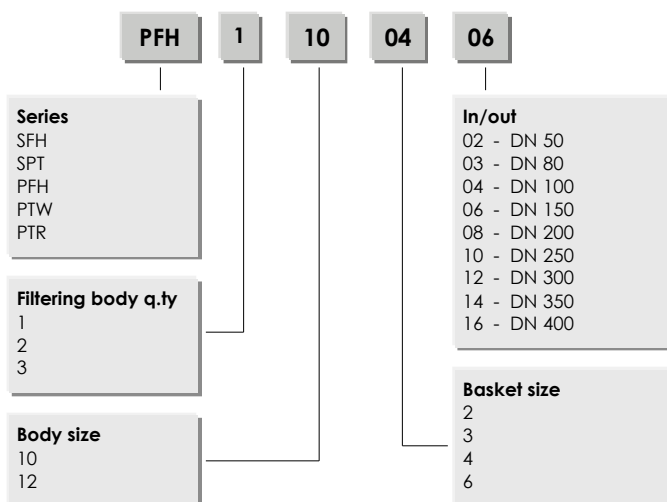
Model	Dimension [mm]							Flow-rate [m³/h]	Area [m²]	Weight [kg]	
	A	L	L1	L2	H	P	In/out			Empty	Full
PTW210406	900	1970	1300	500	430	1025	DN 150 PN 10	200	0.96	210	510
PTW210606	900	2430	1700	500	430	1025	DN 150 PN 10	250	1.44	240	615
PTW210408	900	2055	1300	500	490	1075	DN 200 PN 10	320	0.96	220	525
PTW210608	900	2445	1700	500	490	1075	DN 200 PN 10	350	1.44	250	630
PTW212408	900	2055	1300	500	515	1125	DN 200 PN 10	380	0.96	250	580
PTW212608	900	2585	1700	500	515	1125	DN 200 PN 10	400	1.44	280	675
PTW212610	900	2585	1700	500	540	1175	DN 250 PN 10	500	1.44	290	695
PTW212612	900	2585	1700	500	550	1225	DN 300 PN 10	750	1.44	300	710
PTW212614	900	2585	1700	500	610	1325	DN 350 PN 10	1000	1.44	330	750

Model	Dimension [mm]							Flow-rate [m³/h]	Area [m²]	Weight [kg]	
	A	L	L1	L2	H	P	In/out			Empty	Full
PTR310608	900	2450	1700	500	900	1025	DN 200 PN 10	420	2.16	350	835
PTR310610	900	2585	1700	500	100	1025	DN 250 PN 10	750	2.16	370	865
PTR312612	900	2450	1700	500	1020	1125	DN 300 PN 10	1000	2.16	425	995
PTR312614	900	2585	1700	500	1020	1125	DN 350 PN 10	1250	2.16	440	1020
PTR312616	900	2585	1700	500	1025	1175	DN 400 PN 10	1500	2.16	480	1075

Suggested clean water max. flow-rate. Initial Delta-P < 0.2 bar. Filtration rating 150 µm.  
Max. allowable flow-rate depends from the filtration rating; for different filtration rating contact ASCO Filtri.

Micron	Available filtration rating													
	15	30	40	50	80	100	120	150	200	300	400	800	1500	3000

## Ordering information:



We reserve the right to change the data of this specification without notice.

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