



# FDD

Bag filter



**MAX PRESSURE**  
10 bar



**FILTRATION DEGREE**  
200-1 micron



**MAX FLOW RATE**  
8-70 m<sup>3</sup>/h



**FILTER TYPE**  
Manual

TYPE



MANUAL

CLEANING



BY OPERATOR

CHARACTERISTICS



QUICK LOCK



DIFFERENTIAL PRESSURE KIT



MAGNETIC KIT



POTABLE WATER

APPLICATIONS



HVAC/R



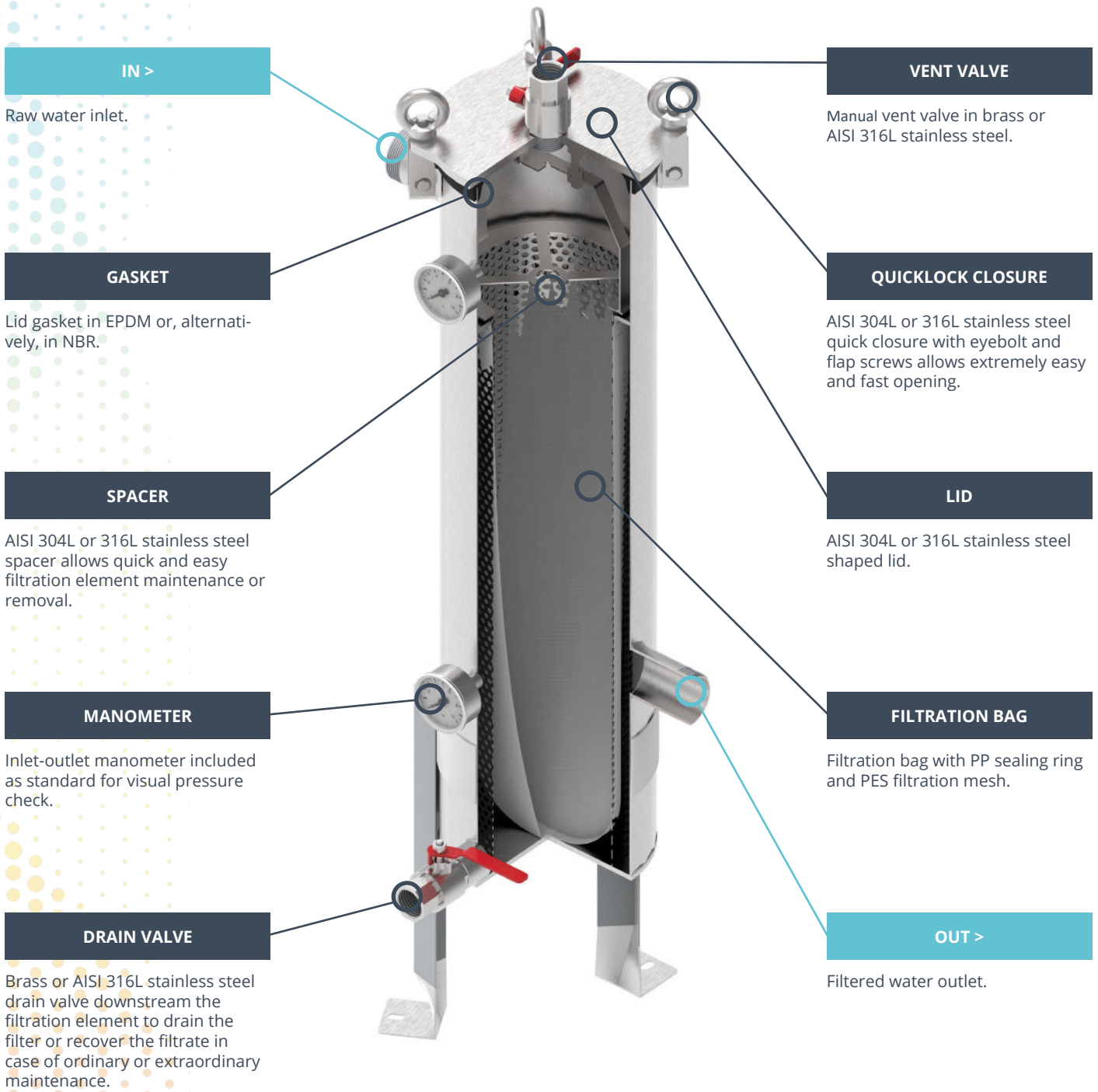
FOOD & BEVERAGE



INDUSTRY



WASTE WATER TREATMENT



IN >

Raw water inlet.

VENT VALVE

Manual vent valve in brass or AISI 316L stainless steel.

GASKET

Lid gasket in EPDM or, alternatively, in NBR.

QUICKLOCK CLOSURE

AISI 304L or 316L stainless steel quick closure with eyebolt and flap screws allows extremely easy and fast opening.

SPACER

AISI 304L or 316L stainless steel spacer allows quick and easy filtration element maintenance or removal.

LID

AISI 304L or 316L stainless steel shaped lid.

MANOMETER

Inlet-outlet manometer included as standard for visual pressure check.

FILTRATION BAG

Filtration bag with PP sealing ring and PES filtration mesh.

DRAIN VALVE

Brass or AISI 316L stainless steel drain valve downstream the filtration element to drain the filter or recover the filtrate in case of ordinary or extraordinary maintenance.

OUT >

Filtered water outlet.

\*Non-standard features available upon request.

The company reserves the right to make partial or total changes to products without prior notice and declines all liability.

**FILTEC**  
Making Water Safer

**SATI** FILTRATION SYSTEM

## GENERAL DATA

FILTER SIZE	FDD S	FDD D
MAX PRESSURE	10 bar (145 psi)	
MAX TEMPERATURE	90°C (194°F)	
ΔP FILTRATION BAG SUBSTITUTION	0,7 bar (a 25°C)	
MAX ΔP FILTRATION BAG	3,5 bar (a 25°C)	
BAG SIZE	Ø 180 x L 450 mm	Ø 180 x L 820 mm
USEFUL VOLUME	16 L	32 L
BAG FILTRATION AREA	2.800 cm <sup>2</sup> - 434 in <sup>2</sup>	4.900 cm <sup>2</sup> - 759 in <sup>2</sup>

## MATERIALS

FILTER BODY	AISI 304L / AISI 316L
LID	AISI 304L / AISI 316L
BAG SUPPORT	AISI 316L
BODY SUPPORT	AISI 304L
FILTRATION BAG	Polyester / Polypropylene
GASKETS	EPDM / NBR
SURFACE TREATMENT	Etching

FILTRATION BAGS		FDD S		FDD D	
FILTRATION BAG	FILTRATION DEGREE	DIMENSIONS	FLOW RATE	DIMENSIONS	FLOW RATE
BAG 01	1 µm	420 mm	8 m <sup>3</sup> /h	810 mm	16 m <sup>3</sup> /h
BAG 05	5 µm		12 m <sup>3</sup> /h		22 m <sup>3</sup> /h
BAG 10	10 µm		19 m <sup>3</sup> /h		36 m <sup>3</sup> /h
BAG 25	25 µm		24 m <sup>3</sup> /h		45 m <sup>3</sup> /h
BAG 50	50 µm		27 m <sup>3</sup> /h		51 m <sup>3</sup> /h
BAG 100	100 µm		33 m <sup>3</sup> /h		62 m <sup>3</sup> /h
BAG 200	200 µm		38 m <sup>3</sup> /h		70 m <sup>3</sup> /h

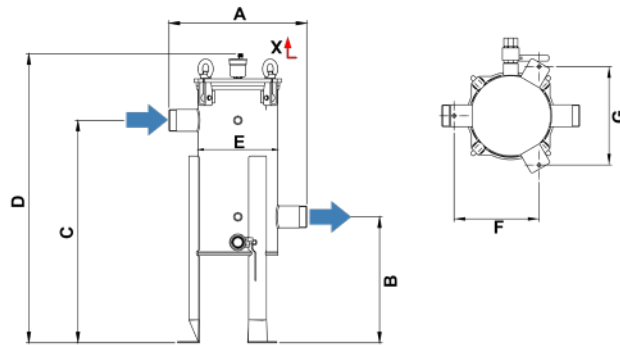
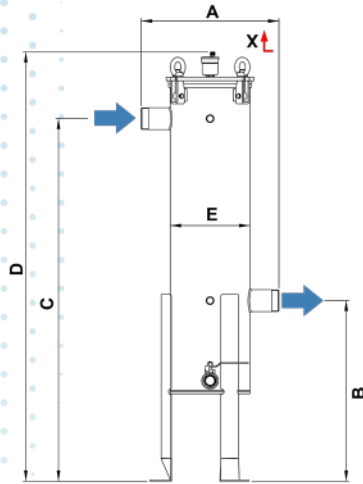
Flow rates are referred to water at 20 °C, NTU <1 water.

## ON REQUEST

- Other filtration degrees;
- Other pressure range.

**FILTEC**  
Making Water Safer

**SATI** FILTRATION SYSTEM



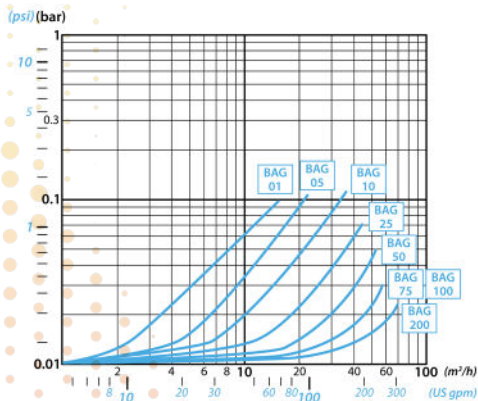
TYPE	MODEL IN/OUT	DRAIN	FILTRATION AREA cm <sup>2</sup>	Q <sub>max</sub> * m <sup>3</sup> /h	DIMENSIONS (mm)								WEIGHT** Kg
					A	B	C	D	E	F	G	X	
TYPE S	1"BSPP	1"BSPP	2800	8	380	346	611	800	219	238	275	500	23
	1"½ BSPP	1"BSPP	2800	12	380	346	611	800	219	238	275	500	23
	2" BSPP	1"BSPP	2800	20	380	346	611	800	219	238	275	500	24
	DN50	1"BSPP	2800	20	390	346	611	800	219	238	275	500	28
	2"½ BSPP	1"BSPP	2800	33	380	346	611	800	219	238	275	500	24
TYPE D	2" BSPP	1"BSPP	4900	20	380	496	996	1180	219	238	275	700	30
	DN50	1"BSPP	4900	20	390	496	996	1180	219	238	275	700	30
	2"½ BSPP	1"BSPP	4900	40	380	496	996	1180	219	238	275	700	30
	DN65	1"BSPP	4900	40	390	496	996	1180	219	238	275	700	37
	3" BSPP	1"BSPP	4900	50	380	496	996	1180	219	238	275	700	30
	DN80	1"BSPP	4900	50	420	496	996	1180	219	238	275	700	35
	DN100	1"BSPP	4900	62	420	496	1036	1270	219	238	275	700	38

Dimensions are indicative. We advise to contact SATI technical support for further information.

\*Q<sub>max</sub> flow rates are referred to filters with 100 µm filtration degree bags and 20 °C NTU < 1 water.

\*\* Weight excluding automation and packaging.

**PRESSURE LOSS**



**EXAMPLE OF INSTALLATION**

