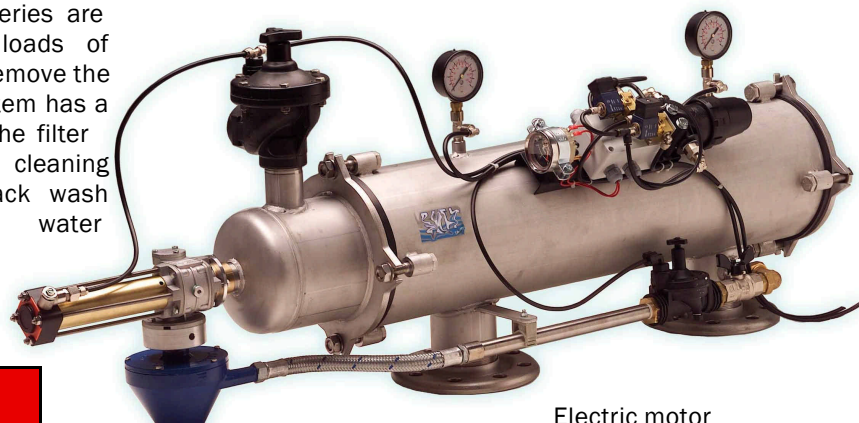


Automatic self cleaning filter systems **VTO series**

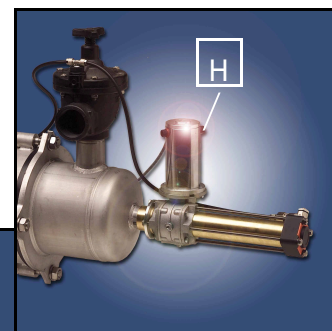
The self cleaning filter systems VTO series are suitable to treat water with high loads of suspended solids, without the need to remove the filter element. The rotating cleaning system has a number of suction points which keep the filter element constantly clean. The high cleaning efficiency allows to minimize the back wash cleaning cycles and the reduction of water losses.



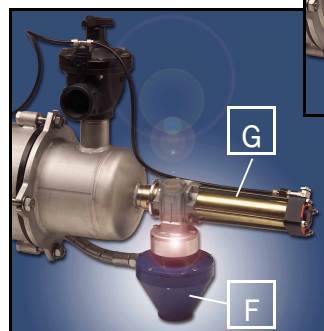
CHARACTERISTICS

- Cleaning cycle without interruption of forward flow
- Minimum water consumption during back wash
- High filtration surface
- 100% AISI 316 stainless steel construction
- Completely automated operation
- Complete access to internal parts and ease of disassembly
- Compact construction
- Possibility of parallel installation for increased flow rates

Electric motor



Hydraulic turbine

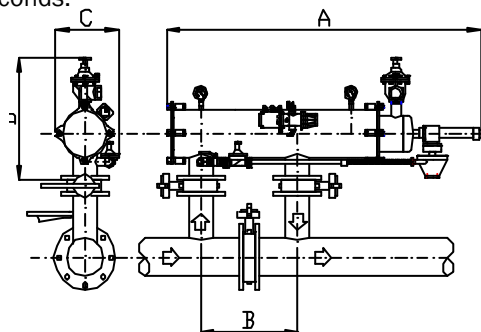
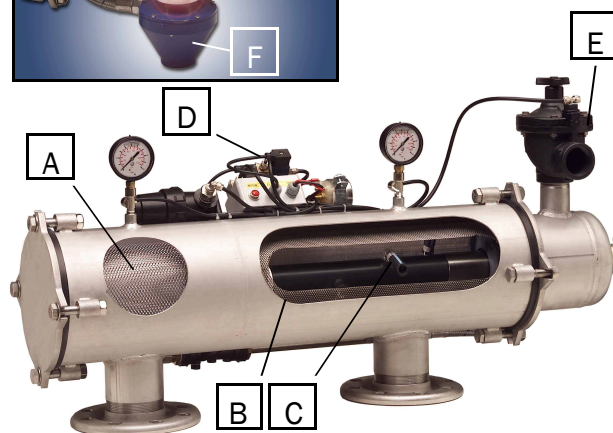


OPERATING PRINCIPLE

Forward flow: filtration is performed in separate chambers. The prefiltration chamber holds a steel basket (A) where water flows inside to outside, and retains coarse particles which could damage internal parts. The final chamber holds both a cartridge (B) where water flows outside to inside and a telescopic back wash scanner ©.

Regeneration: a differential pressure gauge detects the pressure differential on the filter, and upon reaching a set value, sends a signal to the control unit (D) which starts the back wash cycle. This begins by connecting to the discharge, through the valve (E) the scanner which, pressurized by the filter pressure, generates the suction flow of the retained contaminant; everything happens without interrupting the forward flow.

The scanner inspects completely the cartridge surface through a rotating-translation motion activated by an hydraulic turbine (F) or an electric motor (H) and an hydraulic piston (G). The back wash cycle time varies between 15 and 30 seconds.



DIMENSIONAL DATA

	SERIES					
	VTO10	VTO20	VTO30	VTO40	VTO40D	VTO50
A	1130	1285	1455	1850	1850	2050
B	300	400	450	620	620	670
C	290	290	290	360	360	400
D	515	515	515	605	605	625

MAIN APPLICATIONS

Water from:
Industrial processes:

wells, rivers, process, cooling tower, waste treatment plants, etc.
chemical, power generation, food & beverage, pharmaceutical cosmetics, electronics, paper mills, irrigation systems etc.

Automatic self cleaning filter systems **VTO series**

PRODUCT SPECIFICATION

Max. operating pressure (PS) 10 bar @ 40 °C
 The filters shown are suitable for the filtration of liquids with surface tension (TS) , at the max. acceptable temperature, < 0.5 bar above atmospheric pressure. The housings will not have the CE stamp and the CE Certificate of Conformity, as they fall within the rules of art. 3, par. 3 of the Directive 97/23/CE PED.
 For pressures above stated values please contact ASCO Filtri.

Construction materials

Body: AISI 316L Finishing: picked
 Filter element : AISI 304 Scanner: AISI 304
 Sealing gaskets. EPDM

TECHNICAL DATA

	TYPE					
	VT010	VT020	VT030	VT040	VT040D	VT050
FILTR. SURFACE [cm ²]	1500	2200	3000	4000	5400	6800
FLOW RATE min/max [m ³ /h]	10 / 80	12 / 130	15 / 150	20 / 230	25 / 400	25 / 400
CONNECTIONS IN/OUT	2" - 3" - 4"	3" - 4"	3" - 4" - 6"	4" - 6" - 8"	6" - 8"	6" - 8" - 10"
AUTOMATIC DRAINAGE	1½"	1½"	1½"	2"	2"	2"
PRESSURE min/max	2 / 10	2 / 10	2 / 10	2 / 10	2 / 10	2 / 10
WEIGHT [kg]	28	45	60	85	105	135

BACKWASH OPERATING SYSTEM

Scanner rotation

Hydraulic turbine with reducer of 12 V d.c. electric motor with reducer

Scanner longitudinal motion

Hydraulic piston

Discharge valve

Automatic hydraulic valve with polypropylene body

Control panel

Electronic unit with : 220-50Hz stabilized feeder and differential pressure gauge

In/out pressure control

Two static manometers with glycerine filling

ORDERING INFORMATION

VT0	40	-	S	W	4	-	06	M	-	001
	SIZE		FILTER ELEMENTS	HUOSING MATERIAL	MOTOR TYPE		CONNECTIONS			INTERNAL CODE
	10		S Standard	W 304	T Hydraulic turbine		02 2"	T Gas-m		See table
	20		D Extended	...	E Electric motor		03 3"	F Flanged		
	30						04 4"			
	40						06 6"			
	50						08 8"			
							10 10"			



ASCO Filtri S.r.l.

20089 ROZZANO (MI) – ITALY
 Via Silvio Pellico, 6/8
 Phone (+39) 02 89257.1
 Fax (+39) 02 89257.201
 e-mail asco@ascofiltri.com
 Web site www.ascofiltri.com