



BOS-ESVT

立式电动吸式自清洗网式过滤器

BOS-ESVT series electric suction self-cleaning screen filter, vertical type.

设备特点 / CHARACTERISTICS



01

电力驱动，先进可靠的吸吮扫描清洗装置，结构巧妙易维护
Electric-driven, advanced and reliable suction scanning cleaning mechanism, ingeniously structured for ease of maintenance.

02

根据压差 / 定时进行自动清洗，清洗时系统不断流
Cleaning cycle can be automatic activated by the differential pressure and timing, without an interruption of filtration.

03

能耗低，效率高，清洗水量极小
High efficiency, low energy and water consumption.

04

法兰连接标准可选择ANSI B16.5/DIN2576/GB9119
Flange standard is optional for ANSI B16.5/ DIN2576/ GB9119.

05

不锈钢编织滤网，可提供20、50、80、100、130、200、300、500、800、1000微米等多种过滤精度
Stainless steel woven mesh that offers a variety of filtration precisions, including 20, 50, 80, 100, 130, 200, 300, 500, 800, 1000micron and etc.

06

承压等级：标准配置为145psi (1.0MPa)，232psi (1.6MPa)，362.5psi (2.5MPa) 等承压可选
Pressure rating is optional for 145psi (1.0MPa), 232psi (1.6MPa), 362.5psi (2.5MPa)

07

过滤器全部经过试压调试试验，保证操作安全
All filters apply to hydraulic test before shipment to ensure a safe operation.

08

耐强腐蚀、防爆型等特殊要求的产品可个性化定制
Customizable for high anticorrosive and explosionproof components.

工作原理 / WORKING PRINCIPLE

原水经进水口(1)进入过滤器本体,经过滤网过滤,颗粒杂质被截留在滤网内表面(2),滤后水通过出水口(3)流出。自清洗模式可由压差、定时或手动三种方式启动,遵循压差优先原则。当过滤器内外侧压差(ΔP)达到设定值时,启动自清洗模式。连接排污管的排污阀打开,吸吮扫描器吸嘴内侧(4)产生负压,吸取杂质,同时吸吮扫描器在电力驱动下沿滤网内表面做螺旋往复运动,无清洗盲区,杂质由排污口(5)排出。自清洗过滤器清洗时间由控制器提前设定,清洗完成后排污阀关闭整个清洗过程耗水量小。

The raw water enters the filter housing through the inlet (1), where particulate impurities are trapped on the surface of the filter screen (2) after filtration. The filtered water flows out through the outlet (3). The self-cleaning mode can be initiated by pressure difference, timing, or manual activation, following the principle of prioritizing pressure difference. When the pressure difference (ΔP) between the inside and outside surfaces of the filter screen reaches a set value, the self-cleaning mode is activated. The drain valve opens, creating negative pressure on the inside of the suction scanner nozzle (4) to extract impurities. Simultaneously, the suction scanner, driven by electricity, moves in a spiral reciprocating motion along the surface of the filter screen, ensuring no cleaning blind spots, with impurities being discharged through the drain outlet (5). The cleaning time is pre-set by the controller, and after cleaning is completed, the drain valve closes, resulting in minimal water consumption throughout the entire cleaning process.

BOS-BST立式电动吸式自清洗网式过滤器

BOS-ESV series electric suction self-cleaning screen filter, vertical type.



BOWNT
PURIFICATION IN ACTION

产品型号 Model	最大流量 Max. Flow		过滤面积 Filtration Surface	接口规格 Connection (DN/PN1.0)		清洗 Cleaning Cycle			
	gpm	m³/h		inch² (cm²)	进出口/Inlet-Outlet inch (mm)	排污口/Drain inch (mm)	流量/Flow gpm (l/s)	时间/Time (s)	耗水/Water Consumption gal (l)
BOS-ESVT3000/3C	220	50	465 3000	3" 80	2" 50	47.6 3	20	15.86 60	0.24 0.18
BOS-ESVT3000/4C	352	80	465 3000	4" 100	2" 50	47.6 3	20	15.86 60	0.34 0.25
BOS-ESVT3000/6C	704	160	465 3000	6" 150	2" 50	47.6 3	20	15.86 60	0.34 0.25
BOS-ESVT5000/6C	704	160	775 5000	6" 150	2" 50	47.6 3	20	15.85 60	0.50 0.37
BOS-ESVT5000/8C	1320	300	775 5000	8" 200	2" 50	47.6 3	20	15.85 60	0.50 0.37
BOS-ESVT6000/6C	704	160	930 6000	6" 150	2" 50	47.6 3	20	15.85 60	0.50 0.37
BOS-ESVT6000/8C	1320	300	930 6000	8" 200	2" 50	47.6 3	20	15.85 60	0.50 0.37
BOS-ESVT6000/10C	1980	450	930 6000	10" 250	2" 50	47.6 3	20	15.85 60	0.50 0.37
BOS-ESVT9600/10C	1980	450	1488 9600	10" 250	3" 80	79.3 5	30	47.56 150	0.50 0.37
BOS-ESVT9600/12C	2860	650	1488 9600	12" 300	3" 80	79.3 5	30	47.56 135	0.50 0.37
BOS-ESVT10600/10C	1980	450	1643 10600	10" 250	3" 80	79.3 5	30	63.41 150	1.02 0.75
BOS-ESVT10600/12C	2860	650	1643 10600	12" 300	3" 80	79.3 5	30	63.41 150	1.02 0.75
BOS-ESVT10600/14C	3960	900	1643 10600	14" 350	3" 80	79.3 5	30	84.54 320	1.02 0.75
BOS-ESVT15000/16C	5280	1200	2325 15000	16" 400	3" 80	79.3 5	30	84.54 320	1.02 0.75
BOS-ESVT15000/18C	6600	1500	2325 15000	18" 450	3" 80	79.3 5	30	84.54 320	1.02 0.75
BOS-ESVT15000/20C	8800	2000	2325 15000	20" 500	3" 80	79.3 5	30	158.52 320	1.02 0.75

注：最大过滤流量及清洗数据是按照100微米过滤精度、水质较好工况的数据，实际过滤流量与所选过滤精度和水质有关，具体请咨询本公司。

Notice: The maximum flow rate and cleaning data is based on 100 micron for the filtration grade and good water quality. The actual filtration flow and the filtration grade are related to water quality. Please refer to our company for details.

