

BOT

取水过滤器

BOT Series Water Intake Filter



产品简介 / PRODUCT INTRODUCTION

BOWNT BOT取水过滤器主要用于大流量水源过滤，可以直接安装取水管路上，起到快速过滤，自动清洗的功能。特别有效去除蛤壳、贝壳、蚌类、牡蛎、鱼、海蜇、海草、酒瓶、罐、砾石、混凝土片等。在市政取水、工业循环水、冷凝器保护、农业灌溉等行业有这广泛的应用，设备无须通过人工进行清除，极大地提高了管道清洁性能。

BOWNT BOT Series Water Intake Filter is mainly designed to filter large flow water, and allows direct mounting on water intake pipeline for quick filtration and automatic cleaning. It can efficiently remove clam shells, seashells, mussels, oysters, fish, jellyfish, sea grasses, bottles, tin cans, gravels, concrete rubbles, etc. The filter does not require manual cleaning, greatly improving pipeline cleaning efficiency. Therefore, it is ideal for applications in municipal water intake, industrial circulating water, condenser protection and agricultural irrigation.

结构特点 / CHARACTERISTICS



01

滤网网板条承受纵向力的能力强，结构强度高，排污方向冲力大、使用寿命长，很难产生形变。

The filter screen and baffle plates boast high structural strength and long service life, able to resist high longitudinal force and deformation and provide large discharge force.

02

滤网网芯有冲孔网或流线型井字型栅格 2种，具有整流功能，有效降低水阻。

Filter screen is available in two types, one with punch holes and the other with streamlined grids. Both can adjust water flow and effectively reduce water resistance.

03

采用销齿轮传动，传动转换环节少，传动所需力矩小，减少故障点。

Adopting a pin-gear transmission, the filter enjoys reduced transmission conversions, smaller transmission torque, and fewer vulnerable points.

04

滤网开孔率高，尤其是井字型栅格结构的滤网开孔率高达80%。

Filter features high mesh number, especially the grid screen, with hole area accounting for up to 80% of the total screen area.

05

结构紧凑，便于布置，水中只有一个移动的部件。

The filter takes on compact structure, with only one movable component in water, making it easy to arrange.

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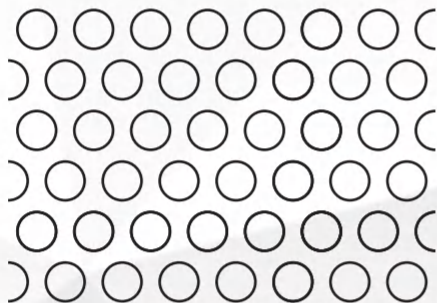
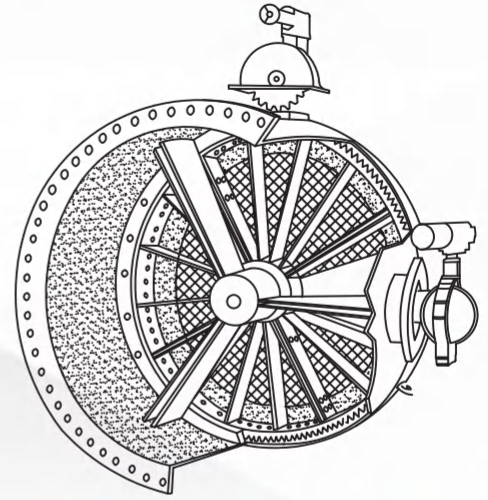


BOWNT
PURIFICATION IN ACTION

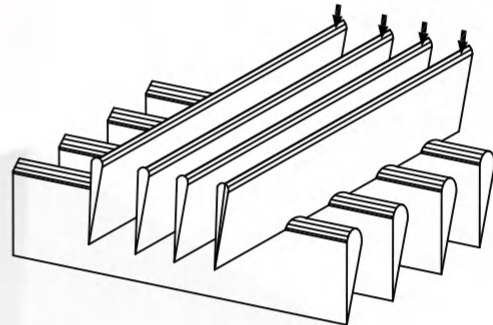
🤖 设备构造 / STRUCTURE

BOWNT BOT取水过滤器由外壳、过滤网芯、锥形排污系统、传动系统、电控系统等组成。滤网及传动轴均采用高强度不锈钢（双相钢可选）制造。先进的水利模型使结构具有水阻小、轴径短、排污方向冲力大（排污效果好）、结构强度高、使用寿命长、运行可靠性高等特点。

BOWNT BOT Series Water Intake Filter is comprised of housing, filter screen, conical discharge system, transmission system, electronic control system, etc. Both filter screen and transmission shaft are made from high-strength stainless steel (dual-phase steel optional). With an advanced hydraulic model, the filter features low water resistance, small shaft diameter, large discharge force (better waste discharge), high structural strength, long service life and high operation reliability, etc.



(冲孔型/Punch hole type)



(栅格结构/Grid type)

🤖 运行原理 / OPERATION PRINCIPLE

网芯由冲孔或流线型井字型栅格结构两种，水阻极小，根据处理水量，滤网由隔板分成8~16个过滤区域，隔板同时也是滤网过滤区域的支撑骨架。设备进水侧安装排污腔式，排污腔与隔板过滤区之间装有弹性密封。清洗电机通过减速装置带动滤网或排污斗慢速转动，当过滤区域隔板与排污腔重合后，排污阀门同时开启（排污口排空），取水过滤器滤后水回流回来清洗和排污腔重合的过滤区域，把滤网拦截的污物从排污口冲出去。8~16个过滤区域逐一清洗，清洗时设备不断流。



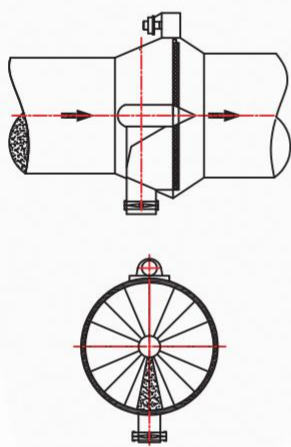
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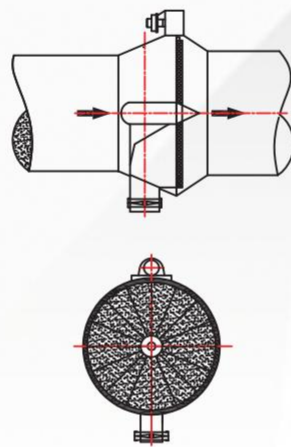


BOWNT
PURIFICATION IN ACTION

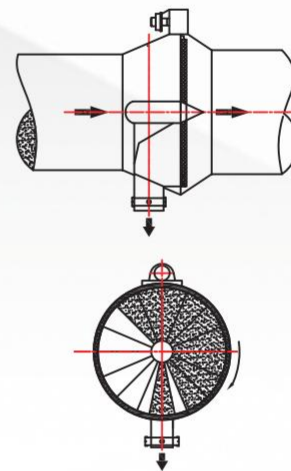
Filter screen is available in two types, one with punch holes and the other with streamlined grids. Both feature low water resistance. The screen can be divided into 8 to 16 smaller sections with baffle plates that function as support for the filter screen. A waste chamber is provided at the water inlet side of the filter, and an elastic seal is placed between the waste chamber and baffle plates at filtering section. The motor for cleaning drives the filter screen and the waste hopper to rotate slowly with reduction gear. When the baffle plates at filtering section overlap with the waste chamber, the discharge valve will open to empty the wastes, then filtered water returns to clean the filtering sections where the baffle plates overlap with waste chamber, and flush the wastes intercepted by filter screen out of discharge port. 8 to 16 sections are cleaned one by one without disruptions to the operation during clean-up.



▲ 污物被拦截
Wastes are intercepted.



▲ 旋转滤网或非污斗，打开排污门，每个扇形区内的污物都被反水流冲走。
Filter screen and waste hopper rotates, and discharge valve opens, all wastes in each section are flushed away by returned water.



▲ 旋转一周，滤网即可清洗干净。
Filter screen is fully cleaned after it rotates 360 degrees.

尺寸/Dimensions (mm)					
	D	L	A	B	C
BOT-24	600(500)	700	1000	150	600
BOT-32	800(700)	800	1200	200	700
BOT-40	1000(800)	900	1400	200	800
BOT-48	1200(1100)	1000	1600	250	900
BOT-56	1400	1100	1800	300	1100
BOT-64	1600	1200	2000	350	1200
BOT-72	1800	1300	2200	400	1300
BOT-80	2000	1400	2400	400	1400
BOT-88	2200	1400	2600	450	1500
BOT-96	2400	1500	2900	500	1650
BOT-104	2600	1600	3250	500	1800
BOT-112	2800	1700	3550	600	2000
BOT-120	3000	1800	3950	700	2200

