邦沃特 BOD 600 系列过滤器

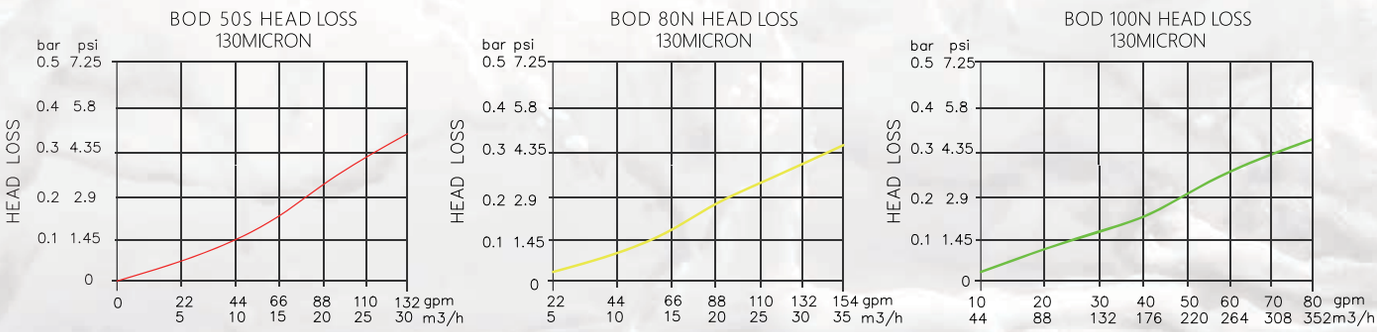
- 过滤高效稳定，反洗水量极小
- 壳体材质为尼龙增强玻纤，坚固耐用，最大承压可达145psi（1.0MPa）
- 水力/气源驱动自动反洗，内源、外源及气水混合反洗可选
- 根据压差 / 定时进行自动反洗，反洗时系统不断流
- 模块化设计，可按空间自由组合，节省占地
- 过滤精度可以选择50、100、130、200微米(其他精度可以咨询厂家），适应不同工况环境
- 叠片耐腐性能强，适合复杂流体和环境
- 系统维护成本低，运行安全可靠，使用寿命长

BOWNT BOD 600 SERIES FILTER

- Efficient filtration with low back flushing water consumption.
- Filter shell is made of glass fiber reinforced nylon, sturdy and durable, with maximum pressure up to 145psi（1.0MPa）
- Optional for hydraulic / pneumatic / internal/external/mixing (hydraulic and pneumatic) actuate a back flushing cycle.
- Back flushing cycle can be activated by differential pressure & timing, without an interruption of filtration.
- Modular design for space saving, free combination according to the mounting space.
- Filtration grade optional for 50/100/130/200 micron etc, adapted on defferent working conditions, further requirements please refer to the manufacture.
- Filter discs with high corrosion resistance, applicable for complex fluids.
- Low maintenance cost, reliable safe operation and long service life.

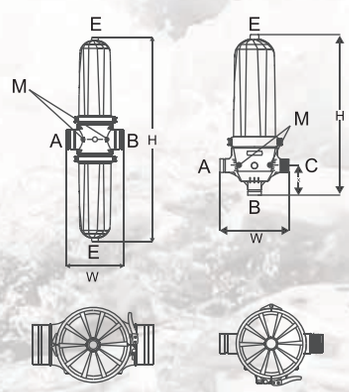
自动反冲洗过滤器系列 / AUTOMATIC BACK FLUSHING FILTER SERIES			过滤精度 / Filtration Grade	
型号 Model	接口规格 Connection	描述 Description	微米 Micron	目 Mesh
D600D50SL D600D50SM	90°卡口接口 / GROOVED 180°卡口接口 / GROOVED	2” 超大叠片过滤器单元 2” super disc filter unit	200	75
D600D80NL D600D80NM	90°卡口接口 / GROOVED 180°卡口接口 / GROOVED	3” 叠片过滤器单元 3” disc filter unit	130 100	120 150
D600D100NM	180°卡口接口 / GROOVED	4” 叠片过滤器单元 4” disc filter unit	50	300

邦沃特自动反冲洗过滤器水头损失表
BOWNT BOD FILTER HEAD LOSS



型号 Model	接口规格 Connection			尺寸 Dimensions inch（mm）					重量 Weight (kg)
	A	B	C	E	M	H	W	X	
D600D50SL	2″ VIC	2″ VIC	2″ BSP	3/4″ BSP	1/4″ BSP	28.46 723	12.2 310	5.27 134	9.7
D600D50SM	2″ VIC	2″ BSP	2″ VIC						
D600D80NL	3″ VIC	3″ VIC	3″ BSP	3/4″ BSP	1/4″ BSP	28.7 729	13.26 337	5.82 148	9.9
D600D80NM	3″ VIC	3″ BSP	3″ VIC						
D600D100NM	4″ VIC	4″ VIC		3/4″ BSP	1/4″ BSP	47.24 1200	13.42 341		24

100N 50S. 80N



叠片颜色 Disc Color
200 微米（75 目） 200 Micron（75 Mesh）
130 微米（120 目） 130 Micron（120 Mesh）
100 微米（150 目） 100 Micron（150 Mesh）
50 微米（300 目） 50 Micron（300 Mesh）

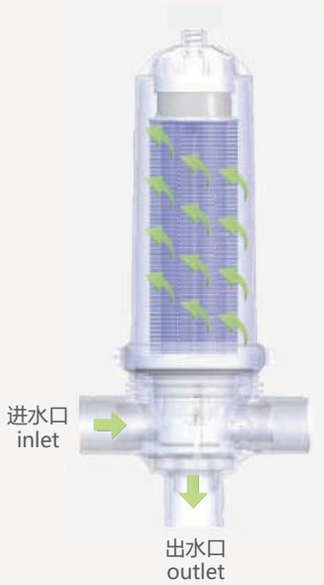
邦沃特自动反冲洗过滤器 BOWNT Automatic Back flushing Filters	最大流量 Max. Flow gpm (m³/h)	过滤面积 Filtration surface	最大压力 Max. Pressure	最小流量 Min. Flow
		过滤阶段 Filtering		反冲洗阶段 Back flushing
		inch² (cm²)	psi (MPa)	gpm (l/s)
D600D50S	110 25	232.5 1500	145 1.0	47.55 3
D600D80N	154 35	232.5 1500	145 1.0	47.55 3
D600D100N	308 70	465 3000	145 1.0	95.1 6

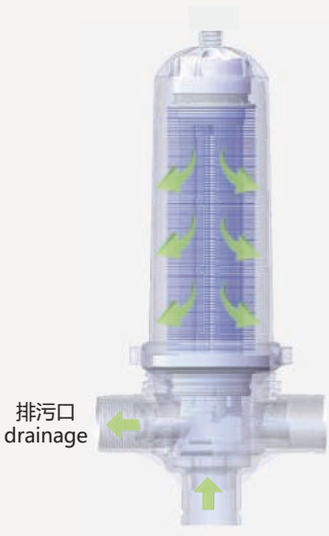
BOD 600自动单元的过滤过程和反洗过程原理
PRINCIPLE OF FILTERING AND BACK FLUSHING

过滤阶段 / Filtering

- 过滤芯架上部活塞压紧叠片。
- 水流由进水口进入。
- 水流通过离心盘，水流的离心力将大颗粒杂质甩在内壁上，并集中于过滤单元顶部，携带少量杂质的水再通过叠片过滤，降低了叠片的清洗频率，达到了节水的效果。
- 携带更少杂质的水继续通过压紧的叠片之间的缝隙进入到深层过滤，过滤后的干净水从叠片内腔流出到出水口

- Filter discs are compressed tightly in the filter element frame.
- Water fills into the filter unit through the inlet manifold.
- Feed water flows through the centrifugal disk, most particles in the water are thrown to the inner filter shell surface, and concentrated on the top, the rest particles intercepted on the discs surface during filtering, which greatly reduces the back flushing frequency and water consumption.
- Water with less particles goes through the disc channels for a deep filtration, clean water through the inner disc passage flows to the outlet manifold.





反洗阶段 / Back flushing

- 反冲洗水流（过滤后的带压力水）从过滤芯架下部出水口吸入，过滤芯架上部活塞上提，叠片松散开
- 反冲洗水流从过滤芯架柱体上的小孔喷射到散开的叠片上，使叠片产生横向旋转和纵向颤动运动，在叠片快速旋转过程中水流对叠片进行由内向外的彻底清洗，最后清洗水从排污口排出。
- 反洗完成后活塞复位，压紧叠片，开始新一轮过滤

- Filtered water under the pressure revers from the bottom of filter frame, lifts the top plunger and looses the discs.
- Clean water sprays from the wholes in the filter element frame, spins and shakes the discs at a high speed for the purpose of rinse thoroughly, waste water after back flushing discharged from the drain line.
- The top plunger returns to position to compress the discs once finished of a back flushing cycle, and filter unit begins filtration process.