

Function

Disc filters filtrates particles and sediments in the water sources.

Applications

- Well, creek, lake water filtration
- Process water filtration
- Cooling water filtration
- Seawater filtration
- Waste water filtration
- Drip irrigation filtration

Standard Specification

Filter Body: Polyamide
Discs: PP - Polypropylene



Disc filter module

Operation Mode

The synthetic filter discs contained in the filter box are compressed during operation with the help of a spring and water pressurizer. The discs have thin channels that determine the micron level. When the discs are placed on top of each other, these channels form a very large number of filter layers that intercept each other. The water passing through these channels is filtered to the desired particle diameter. When the pressure difference between the raw water inlet and the filtered water outlet reaches the specified value (0,5 - 0,7 bar), or with timer control, the filter backwashes automatically. The spring compressing the discs loosens during backwashing, opens between the discs and dirt (solids) that accumulates between the discs is thrown out with backwash water.

Advantages of Disc Filters

- Very small area needed for installation.
- Small amount of backwash water.
- The risk of creating bacteria is very low.
- Modular design is very convenient.
- Discrete filter units can be mounted horizontally and vertically.
- It creates very little pressure loss during filtration as only 0.5 bar.
- During backwash, the system does not cut off the water. The modular filter units alternate during backwash.
- Depending on the disc type selected, it filters the water exactly to the desired μ level, it does not miss out on the micron level. Disc options: 20, 55, 100, 130, 200 and 400 μ .



Filtration disc

Disc Filters Operating Conditions								
Model	ST 2"	LCE 2"	DSB 2"	HB 2"	ST 3"	DSB 3"	ST 4"	DSB 4"
Max. working pressure (bar)	10	6	10	10	10	10	10	10
Max. temperature (°C)	70	60	70	70	70	70	70	70
Backwash flowrate m ³ /hour	10	10	10	-	20	20	20	20
Backwash water pressure needed (bar)								
100-400 μ	3-10	1	3-10	-	3-10	3-10	3-10	3-10
55 μ	5-10	1,4	5-10	-	5-10	5-10	5-10	5-10
20 μ	6-10	1,8	6-10	-	6-10	6-10	6-10	6-10
Air flowrate (lt/min.)	-	-	-	270	-	-	-	-
Air pressure(bar)	-	-	-	6	-	-	-	-

2" DISC FILTERS TECHNICAL SPECIFICATIONS

Model	flowrate m3/hour		
	20 µ	55 µ	100 - 400 µ
ST2" Standard Disc Filters			
ST 2"X1	-	-	10-15
ST 2"X2	-	8-10	10-24
ST 2"X3	10-15	11-19	25-50
ST 2"X4	16-23	20-29	40-75
ST 2"X5	25-31	30-39	60-100
ST 2"X6	32-39	40-49	72-115
ST 2"X7	40-47	50-59	85-140
ST 2"X8	48-55	60-69	95-160
ST 2"X9	55-63	70-79	100-199
ST 2"X10	64-70	80-89	110-224
LCE ST2" Low Presssure Disc Filters			
ST 2"X1 LCE	-	-	10-15
ST 2"X2 LCE	-	8-10	10-24
ST 2"X3 LCE	10-15	11-19	25-50
ST 2"X4 LCE	16-23	20-29	40-75
ST 2"X5 LCE	25-31	30-39	60-100
ST 2"X6 LCE	32-39	40-49	72-115
ST 2"X7 LCE	40-47	50-59	85-140
ST 2"X8 LCE	48-55	60-69	95-160
ST 2"X9 LCE	55-63	70-79	100-199
ST 2"X10 LCE	64-70	80-89	110-224
DSB 2" Model Disc Filters			
DSB 2"X1	1-6	1-8	1-20
DSB 2"X2	5-7	8-13	12-25
DSB 2"X3	8-15	13-19	25-45
DSB 2"X4	16-23	20-29	40-70
DSB 2"X5	25-31	30-39	55-95
DSB 2"X6	32-39	40-49	70-120
DSB 2"X7	40-47	50-59	80-150
DSB 2"X8	48-55	60-69	90-175
DSB 2"X9	55-63	70-79	100-199
DSB 2"X10	64-70	80-89	110-224
HB 2" Model Disc Filters			
HB 2"X1	5-6	5-8	1-20
HB 2"X2	5-7	9-13	12-25
HB 2"X3	8-15	13-19	25-45
HB 2"X4	16-23	20-29	40-70
HB 2"X5	25-31	30-39	55-95
HB 2"X6	32-39	40-49	70-120
HB 2"X7	40-47	50-59	80-150
HB 2"X8	48-55	60-69	90-175
HB 2"X9	55-63	70-79	100-199
HB 2"X10	64-70	80-89	110-224



ST2"X2



HB2"X3

3" DISC FILTERS TECHNICAL SPECIFICATIONS

Model	Flowrate m3/hour		
	20 µ	55 µ	100 - 400 µ
ST3" Standard Disc Filters			
ST 3"X3	20-27	20-49	20-74
ST 3"X4	28-41	40-74	60-112
ST 3"X5	42-54	60-99	75-149
ST 3"X6	55-68	80-124	90-187
ST 3"X7	69-82	90-149	105-224
ST 3"X8	83-96	100-174	130-262
ST 3"X9	99-110	110-198	145-299
ST 3"X10	104-125	120-222	160-330
DSB3" Model Disc Filters			
DSB 3"X1	5-13	15-24	30-37
DSB 3"X3	14-27	20-49	38-74
DSB 3"X4	28-41	40-74	60-112
DSB 3"X5	42-54	50-99	75-149
DSB 3"X6	55-68	60-124	90-187
DSB 3"X7	69-82	70-149	105-224
DSB 3"X8	83-96	85-174	130-262
DSB 3"X9	99-110	110-198	145-299
DSB 3"X10	104-125	120-222	160-330



ST3"X4

4" DISC FILTERS TECHNICAL SPECIFICATIONS

Model	Flowrate m3/hour		
	20 µ	55 µ	100 - 400 µ
ST4" Standard Disc Filters			
ST 4"X3	60-79	90-99	200-250
ST 4"X4	80-119	100-150	251-375
ST 4"X5	100-150	151-200	376-500
ST 4"X6	120-180	201-250	380-600
ST 4"X7	140-210	251-300	450-700
ST 4"X8	160-240	301-350	520-800
ST 4"X9	180-270	351-400	590-900
ST 4"X10	200-300	401-450	650-1000
ST 4"X11	220-330	451-500	710-1100
ST 4"X12	180-360	501-550	770-1200
DSB4" Model Disc Filters			
DSB 4"X3	60-79	90-99	200-250
DSB 4"X4	80-119	100-150	251-375
DSB 4"X5	100-150	151-200	376-500
DSB 4"X6	120-180	201-250	380-600
DSB 4"X7	140-210	251-300	450-700
DSB 4"X8	160-240	301-350	520-800
DSB 4"X9	180-270	351-400	590-900
DSB 4"X10	200-300	401-450	650-1000
DSB 4"X11	220-330	451-500	710-1100
DSB 4"X12	180-360	501-550	770-1200



ST4"X3