

AUTOMATIC FILTRATION



AUTO DISC FILTRATION SYSTEM



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My Irigacio automatic disc filter system adopt the modular design, it well meets various market demands of different flow volume by providing T-type or H-type backwash modules. Going with 2", 3" or 4" hydraulic backwash valve as well as built-in computer chip for automatic scheduling work, it works as an automatic unattended water filtration system, which ensures continuous water supply while discharging the sewage.

Flow rate range: 40m³/h (176gpm) to 640 m³/h (2816gpm)

Filtering accuracy: 20micron to 400micron

AAS 2" T, AAS 3" T SERIES



AAS 3" H, AAS 4" H SERIES



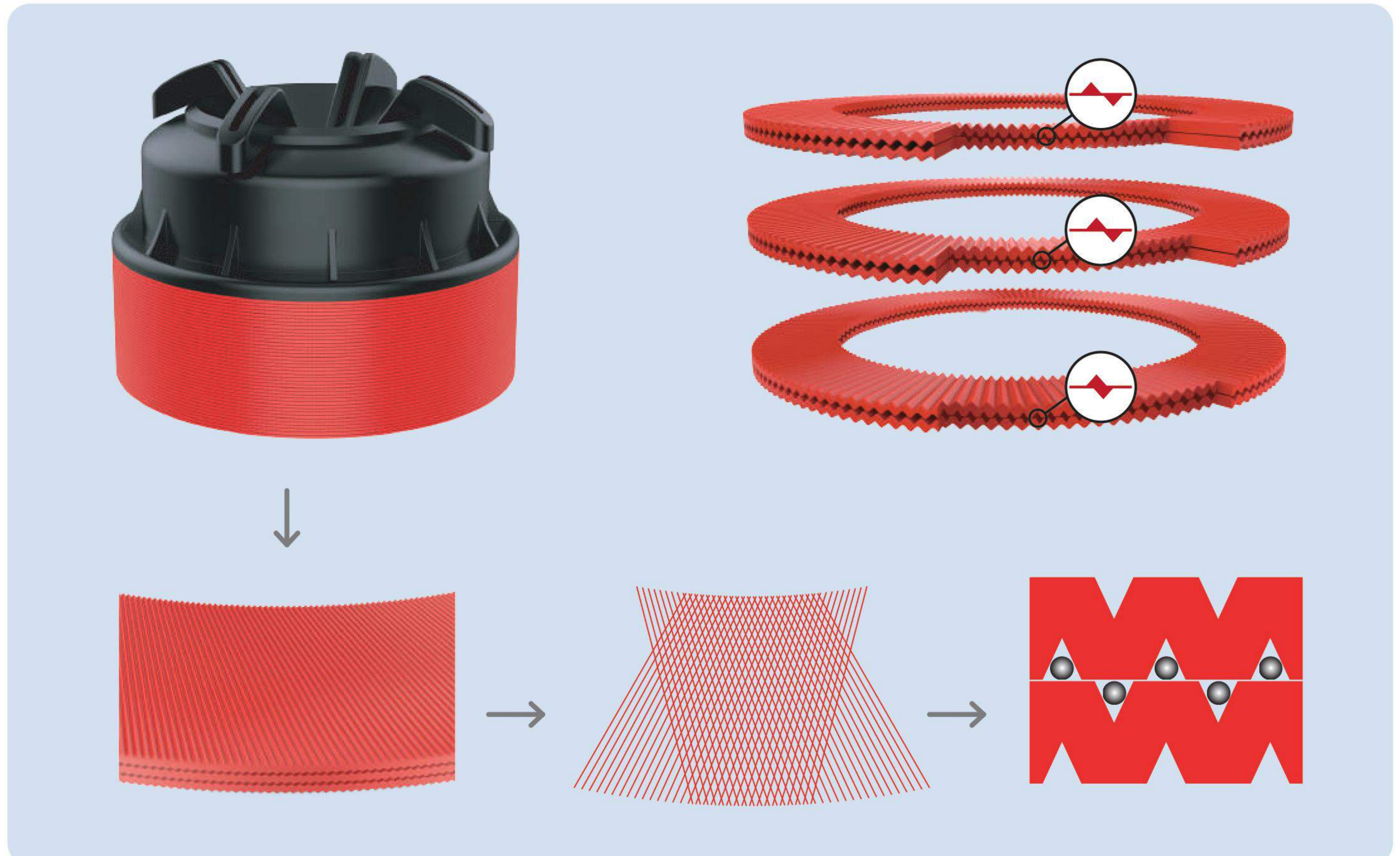
AUTO DISC FILTRATION SYSTEM

FEATURE & ADVANTAGE

- Manufactured in Polyamide, resistance to chemical products, wear-resistant;
- Chips built-in controller to collect water pressure data, to achieve unmanned automatic performance;
- Flexible modular combination to match different application requirements of flow rate;
- Continuous filtering for water supply during backflush;
- Smart backflush auto-procedure setting by the discrepancy of water pressure between inlet & outlet;
- Manual setting for the backflush procedure regularly;
- Efficient water saving in auto-flushing with minimum pressure 2 bar and flow rate 2.5 L/s minimum.

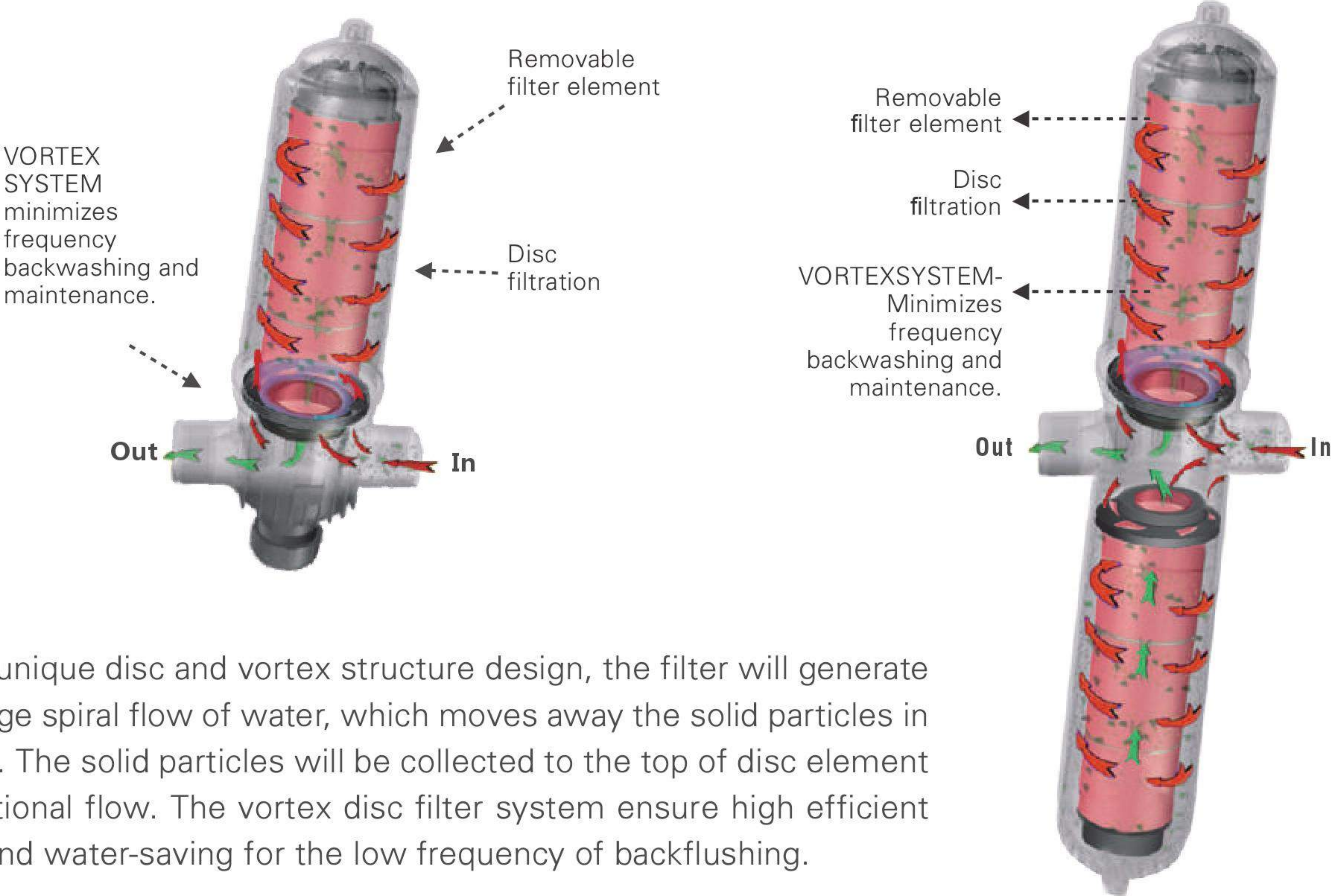
UNIQUE DISC TECHNOLOGY

My Irigacio adopts colorful & thin polypropylene discs of micron precise level. The discs are diagonally grooved on both sides in opposite directions. A series of discs are stacked and compressed on a specially designed filter spine. The grooves of any two adjacent discs with opposite direction pressed together, then it will create many crossing small space which form a series of unique filtration pass to contain dirt. In the filtration process, the force of the spring along with the differential pressure firmly compresses these discs together and through multiple crossing points, it can provide distinctive in-depth filtration.



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VORTEX DISC FILTRATION TECHNOLOGY



With the unique disc and vortex structure design, the filter will generate a centrifuge spiral flow of water, which moves away the solid particles in the water. The solid particles will be collected to the top of disc element with rotational flow. The vortex disc filter system ensure high efficient filtering and water-saving for the low frequency of backflushing.

TECHNICAL DATA

Maximum working water pressure is up to 10 bar and it also offer super low backflushing pressure.

AUTO DISC FILTRATION SYSTEM	FILTRATION GRADES		200 75		130 120	100 150	50 300	20 750
	Micron Mesh							
	Maximum Working Pressure	bar	10			10	10	
		psi	143			143	143	
	Minimum Backflushing Pressure	bar	2			2.5	3	
		psi	29			36	44	
	T Type Minimum Backflushing Flow	L/s	2.5			3.1	3.3	
		gpm	39			50	52	
	H Type Minimum Backflushing Flow	L/s	5			6.2	6.6	
		gpm	78			100	104	

AUTO DISC FILTRATION SYSTEM

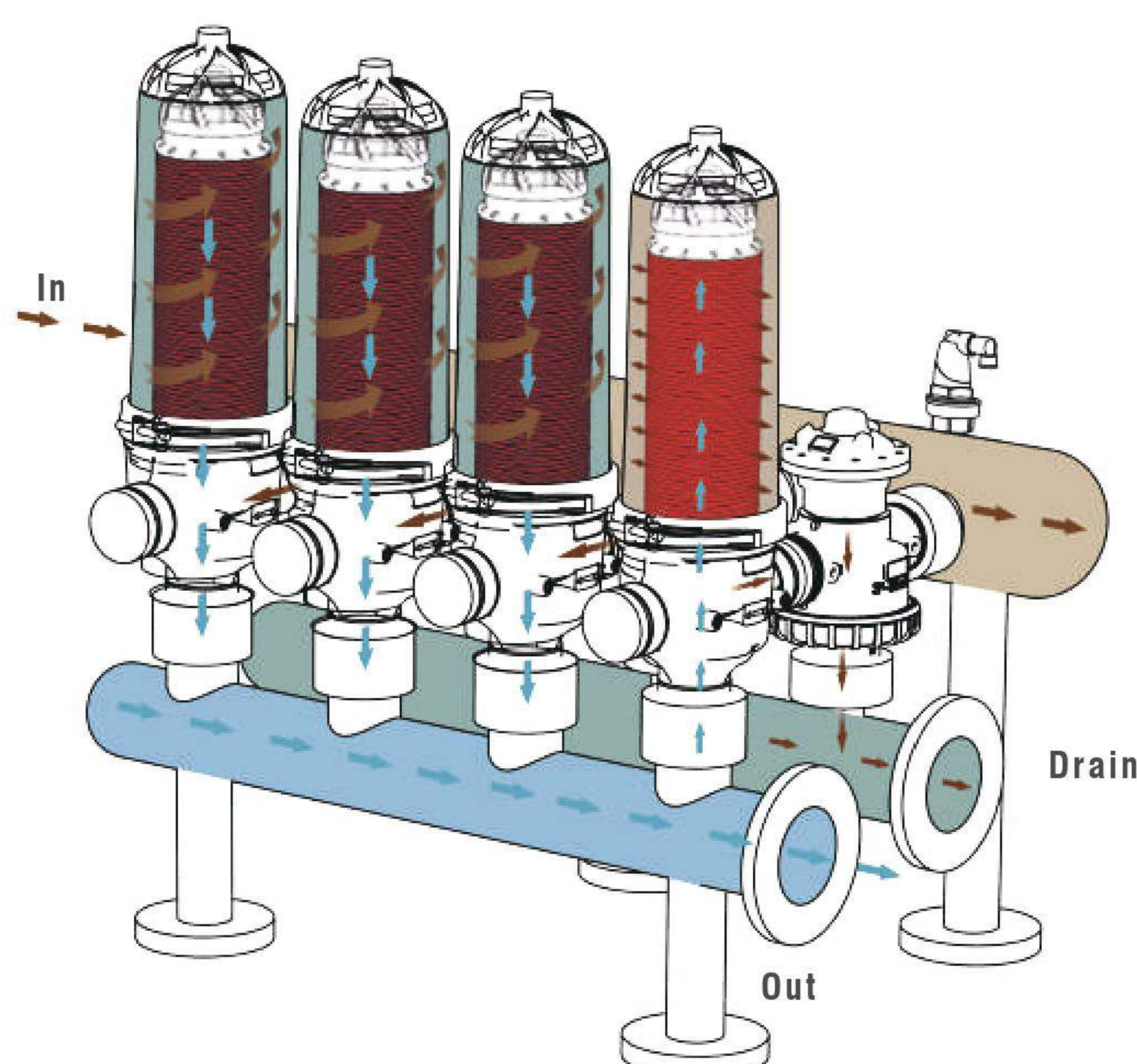
HOW IT WORKS

Filtration stage

Under the command of the controller, the dirty water flow into to the filters in filtration stage via the back-flushing control valves, then the Vortex and the disc keeps the particles in the grooves of the discs, the clean water flow into the outlet pipe.

Backwashing stage

Under the command of the controller, only one of filter starts back-flushing at a time. The back-flushing control valves change the water flow direction, then the filtered water is introduced in reverse through the filtering element which decompresses the stack of discs for the backwash procedure. The solids are expelled from the discs and discharged through the drain manifold. The filtration process starts again after finishing the back-flushing stage. The filter will start back flushing successively until all filters finish cleaning.



PRECISE SELECTION

Six colors are used to identify the five filtration precise of the discs.



Filtration grades
DISC

400 micron
(40 mesh)

200 micron
(75 mesh)

130 micron
(120 mesh)

100 micron
(150 mesh)

50 micron
(300 mesh)

20 micron
(750 mesh)

SYSTEM SELECTION FOR DIFFERENT FLOW RATE

Modular design provides a wide range models for various flow requirement. My Irigacio has T type auto filtration system and H type auto filtration system available.

T TYPE AUTO DISC FILTRATION SYSTEM

T TYPE AUTO DISC FILTRATION SYSTEM

T type auto disc filter system adopt the modular design, equipped with 2" or 3" hydraulic backwash valve as well as built-in computer chip for automatic scheduling work, it works as an automatic unattended water filtration system.

Flow rate: 40m³/h (176gpm) to 290 m³/h (1277gpm)
Accuracy: 20 micron to 400 micron.

Modular design provides a wide range of models for various flow rate requirement. My Irigacio has 2" T type auto filtration system and 3" T type auto filtration system available.



2" SERIES T TYPE AUTO DISC FILTRATION SYSTEM

2" series T type auto disc filtration system is composed of modular AAF050T with 2" back-flushing control valve, which works as an unattended system by built-in computer chip for automatic scheduling work.

Flow rate: 40m³/h (176gpm) to 60 m³/h (264gpm) Accuracy: 20 micron to 400 micron

TYPICAL APPLICATION

Agriculture irrigation: applicable to small scale agriculture irrigation, removing the particles from water drawing from the lake and river etc. Protecting the sprayers of the irrigation system.

Garden irrigation: provide solutions for the water recycling of garden irrigation or water landscape, ensure the water quality and protect the sprayer and the dropper.

Industrial filtration: provide solutions for low flow water recycling in industrial application.

MODULAR AAF050T SPECIFICATION

MODULAR MODEL		AAF050T				UNIT
Filtering Surface		1020				cm ²
Filtration Grades	400 40	200 80	130 120	100 150	50 300	micron mesh
QUALITY OF WATER	Good	28	24		20	m ³ h
		123	106		88	gpm
	Average	24	20		16	m ³ h
		106	88		70	gpm
Poor		20	16		12	m ³ h
		88	70		53	gpm
Very Poor		14	8		4	m ³ h
		62	35		18	gpm



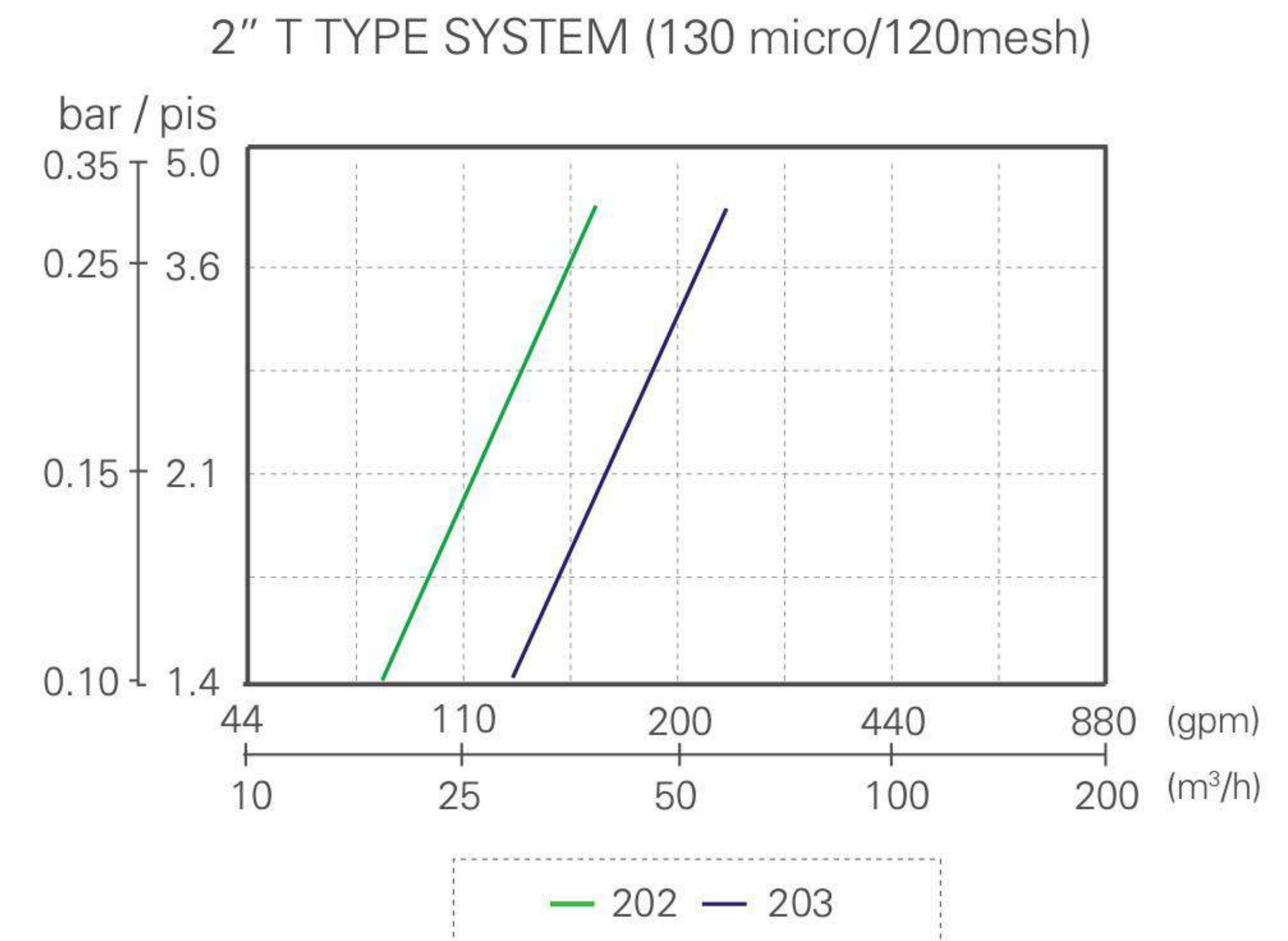
2" AAF050T

T TYPE AUTO DISC FILTRATION SYSTEM

2" T TYPE AUTO FILTRATION SYSTEM

MODEL	Unit No.	Filtering Surface (cm ²)	Manifold (in/mm)	Max Flow (m ³ /h) (gpm)	WEIGHT (kg) (lb)
AAS202T3	2	2040	3 80	40 176	43 95
AAS203T3	2	3060	3 80	40 176	50 100
AAS203T4	3	3060	4 100	60 284	57 126

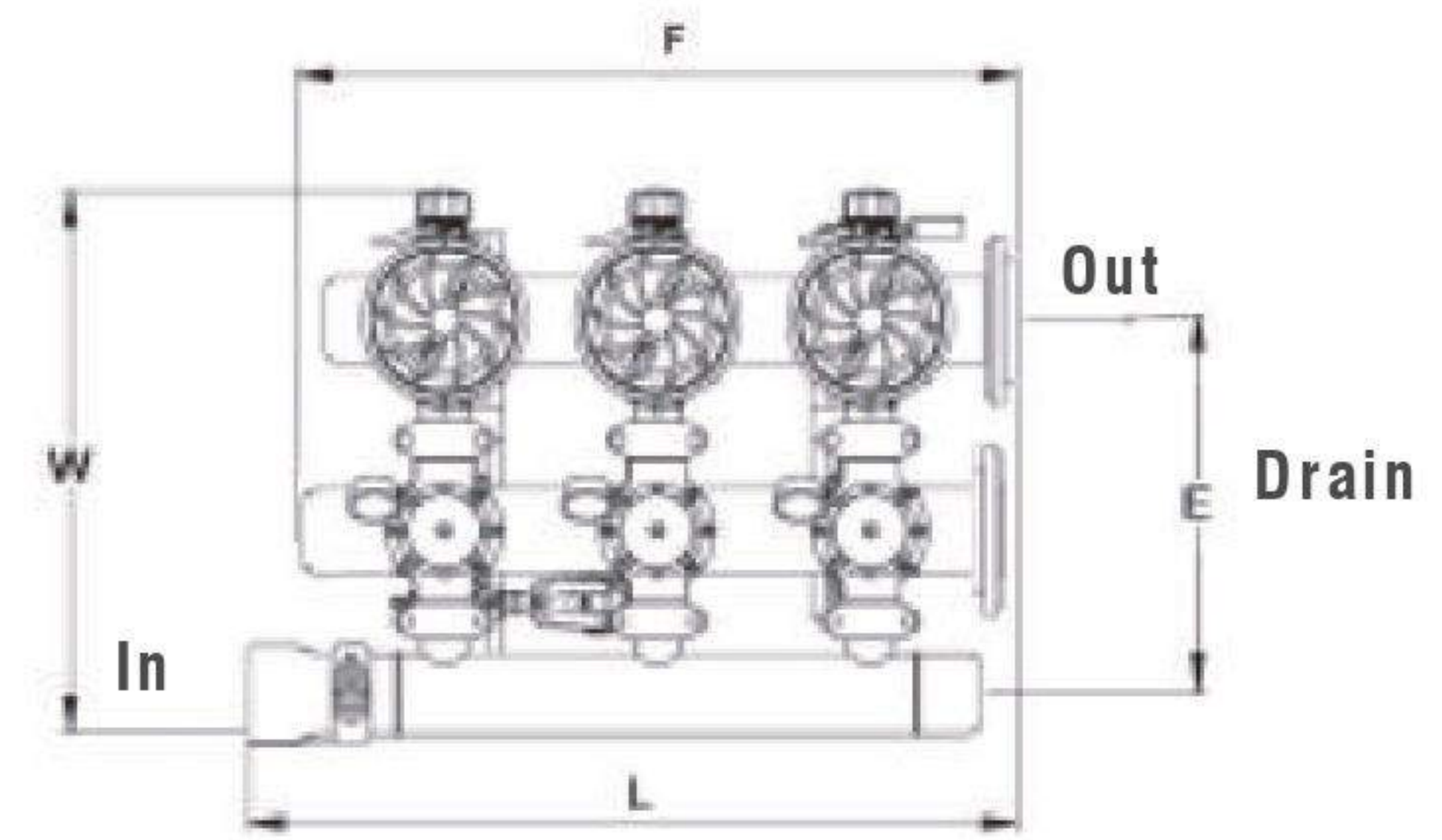
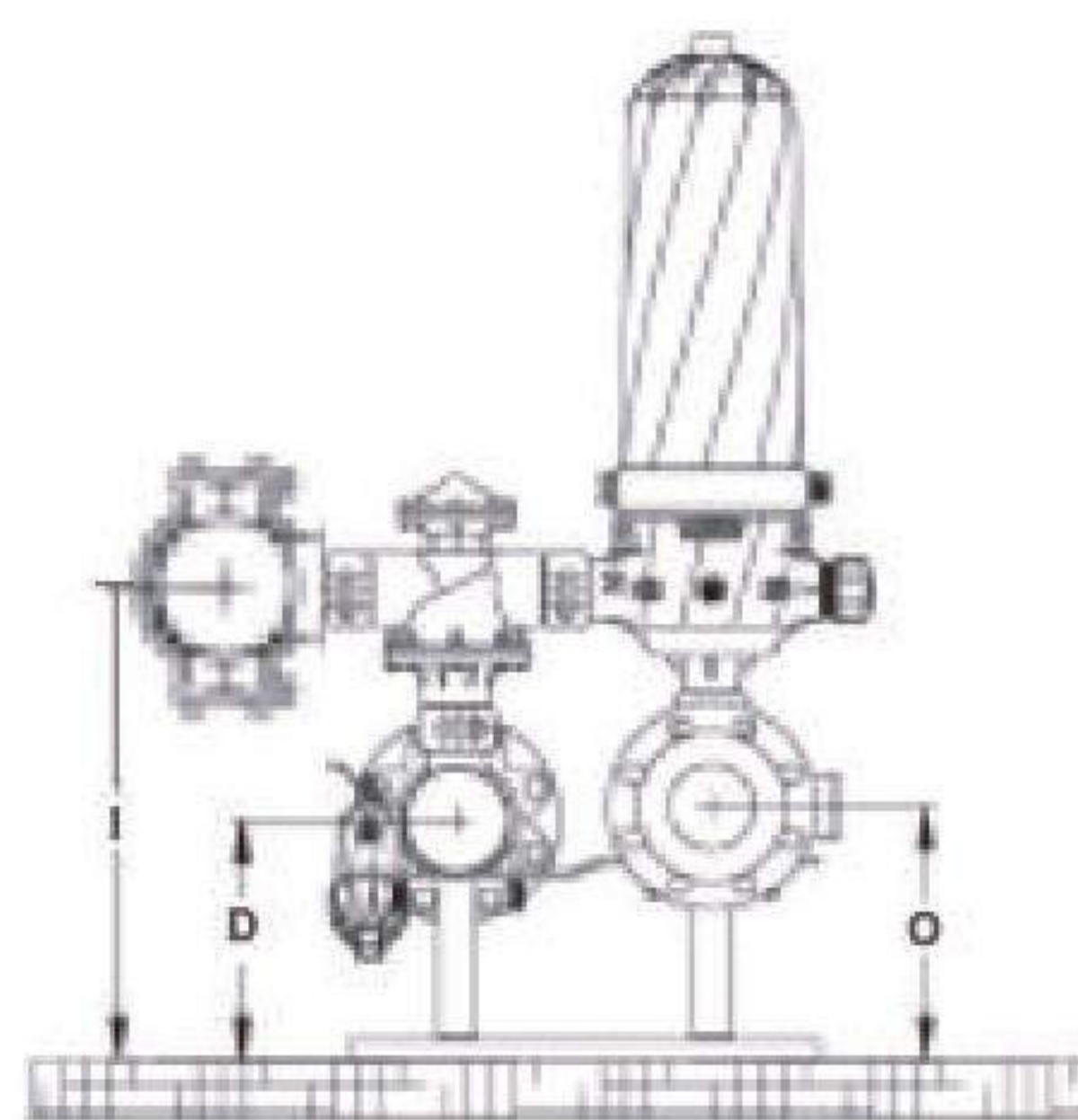
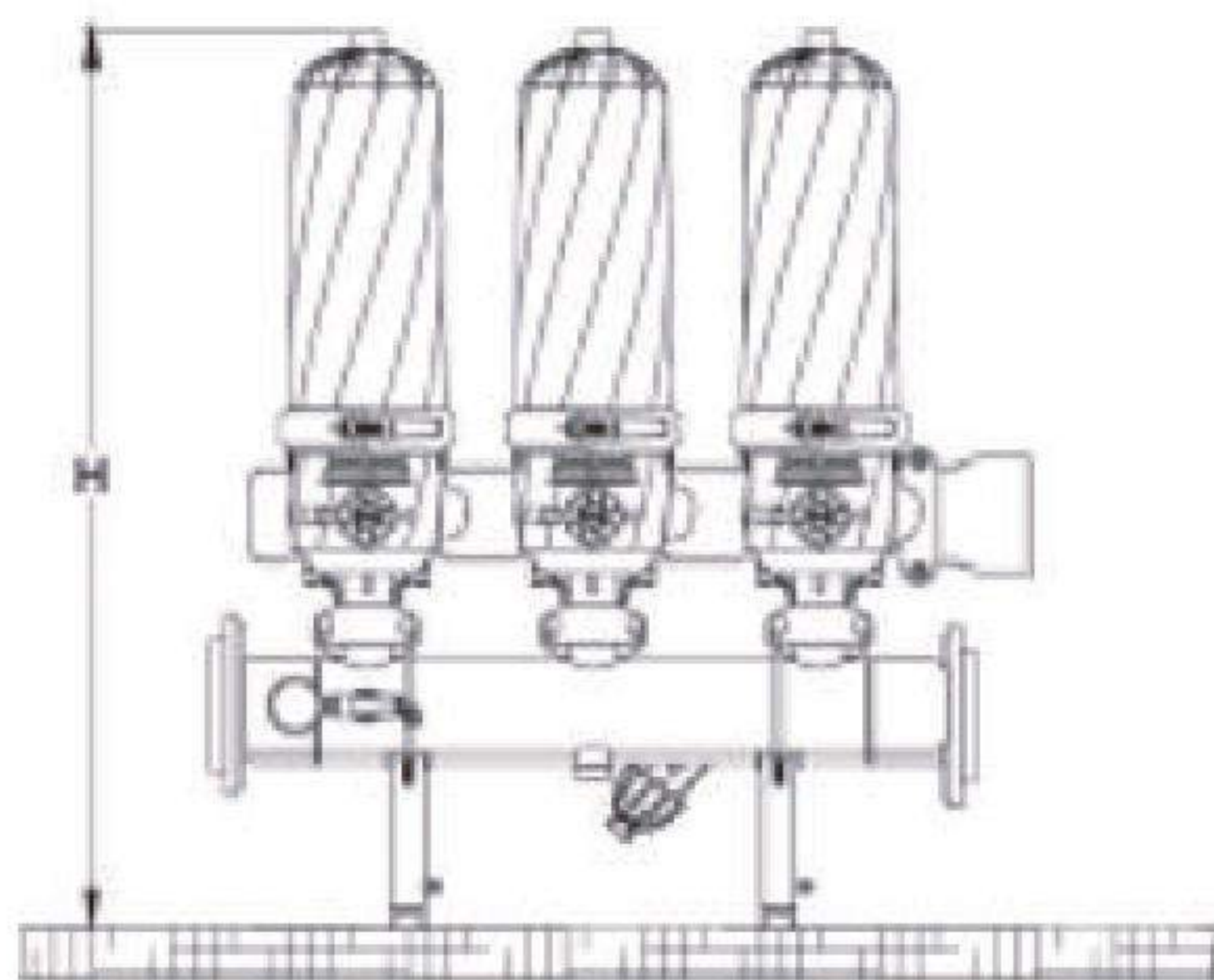
HEAD LOSS



Note: The flow rate will fluctuate with different water quality.

DIMENSION

MODEL	L		W		H		I		O		D		E	
	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
AAS202T3	710	27.9	800	31.4	880	34.6	410	16.1	170	6.7	160	6.3	210	8.2
AAS203T3	970	27.9	800	31.4	880	34.6	400	16.1	170	6.7	160	6.3	210	8.2
AAS203T4	970	38.2	800	31.4	880	34.6	410	16.1	170	6.7	160	6.3	210	8.2



3" SERIES T TYPE AUTO DISC FILTRATION SYSTEM

3" series T type atuo disc filtration system is composed of modular AAF080T with 3" back-flushing control valve, which works as an unattended system by built-in computer chip for automatic scheduling work.

Flow rate: 70m³/h (308gpm) to 290 m³/h (1277gpm) Accuracy: 20 micron (750 mesh) to 400 micron (40 mesh)

TYPICAL APPLICATION

Agriculture irrigation: applicable to medium scale agriculture irrigation, removing the particles from water drawing from the lake and river etc. Protecting the sprayers of the irrigation system.

Garden irrigation: provide solutions for the water recycling of garden irrigation or water landscape, ensure the water quality and protect the sprayer and the dropper.

Industrial filtration: provide solutions for low flow water recycling in industrial applicaiton.

T TYPE AUTO DISC FILTRATION SYSTEM

MODULAR AAF080T SPECIFICATION

QUALITY OF WATER	MODULAR MODEL		AAF080T					UNIT
	Filtering Surface		1492					cm ²
	Filtration Grades		400 40	200 80	130 120	100 150	50 300	micron mesh
	Good		40		36		32	m ³ h gpm
	Average		176		158		141	m ³ h gpm
	Poor		34		32		28	m ³ h gpm
	Very Poor		150		141		123	m ³ h gpm
			26		24		20	m ³ h gpm
			114		106		88	m ³ h gpm
			16		14		10	m ³ h gpm
			70		62		44	m ³ h gpm



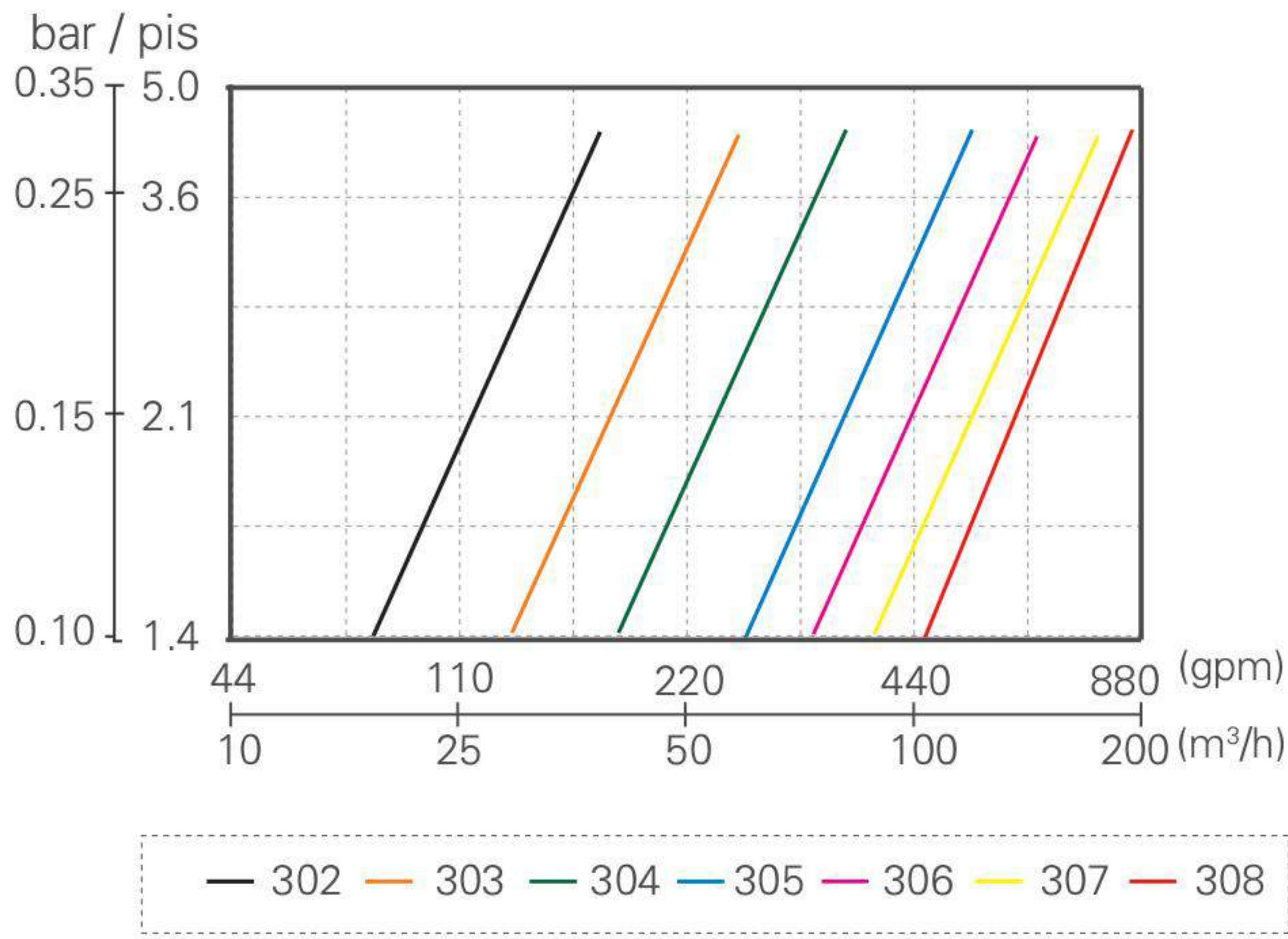
3" AAF080T

AAS 3" T TYPE AUTO DISC FILTRATION SYSTEM SPECIFICATION

MODEL	UNIT NO.	FILTERING SURFACE (cm ²)	MANIFOLD (in/mm)	MAX FLOW (m ³ /h) (gpm)		WEIGHT (kg) (lb)	
AAS302T4	2	2984	4 100	72	317	50	100.2
AAS303T4	3	4476	4 100	108	475	57	125.7
AAS304T6	4	5968	6 150	144	634	104	229.3
AAS305T6	5	7460	6 150	180	792	129	284.4
AAS306T8	6	8952	8 200	216	951	185	407.9
AAS307T8	7	10444	8 200	252	1109	216	476.2
AAS308T8	8	11936	8 200	288	1268	246	542.3

HEAD LOSS

3" T TYPE SYSTEM (130 micro/120mesh)

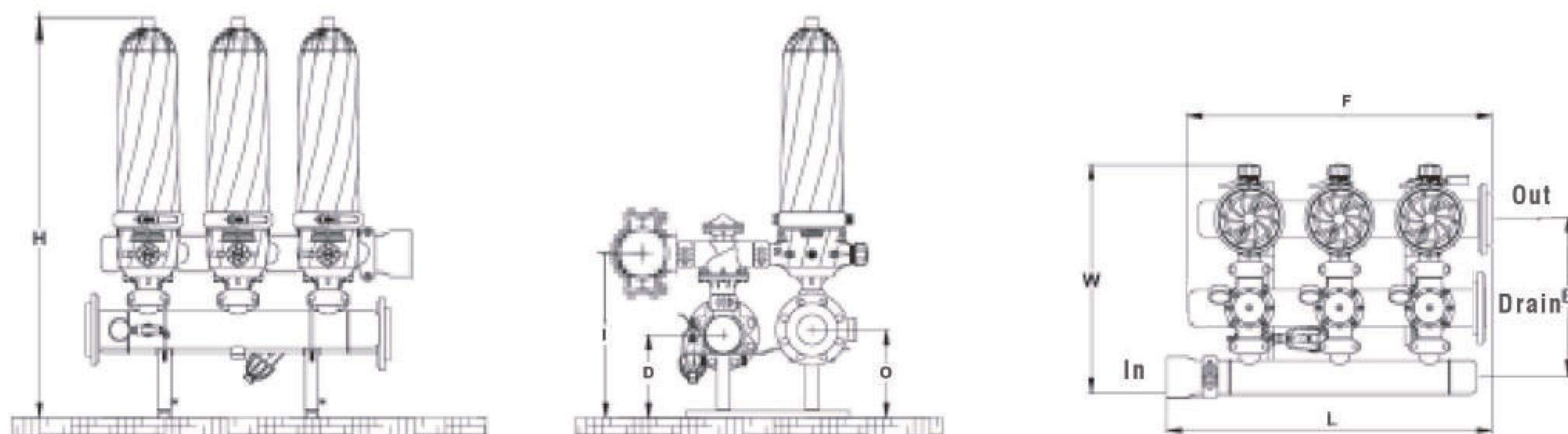


Note: The flow rate will fluctuate with different water quality.

DIMENSION

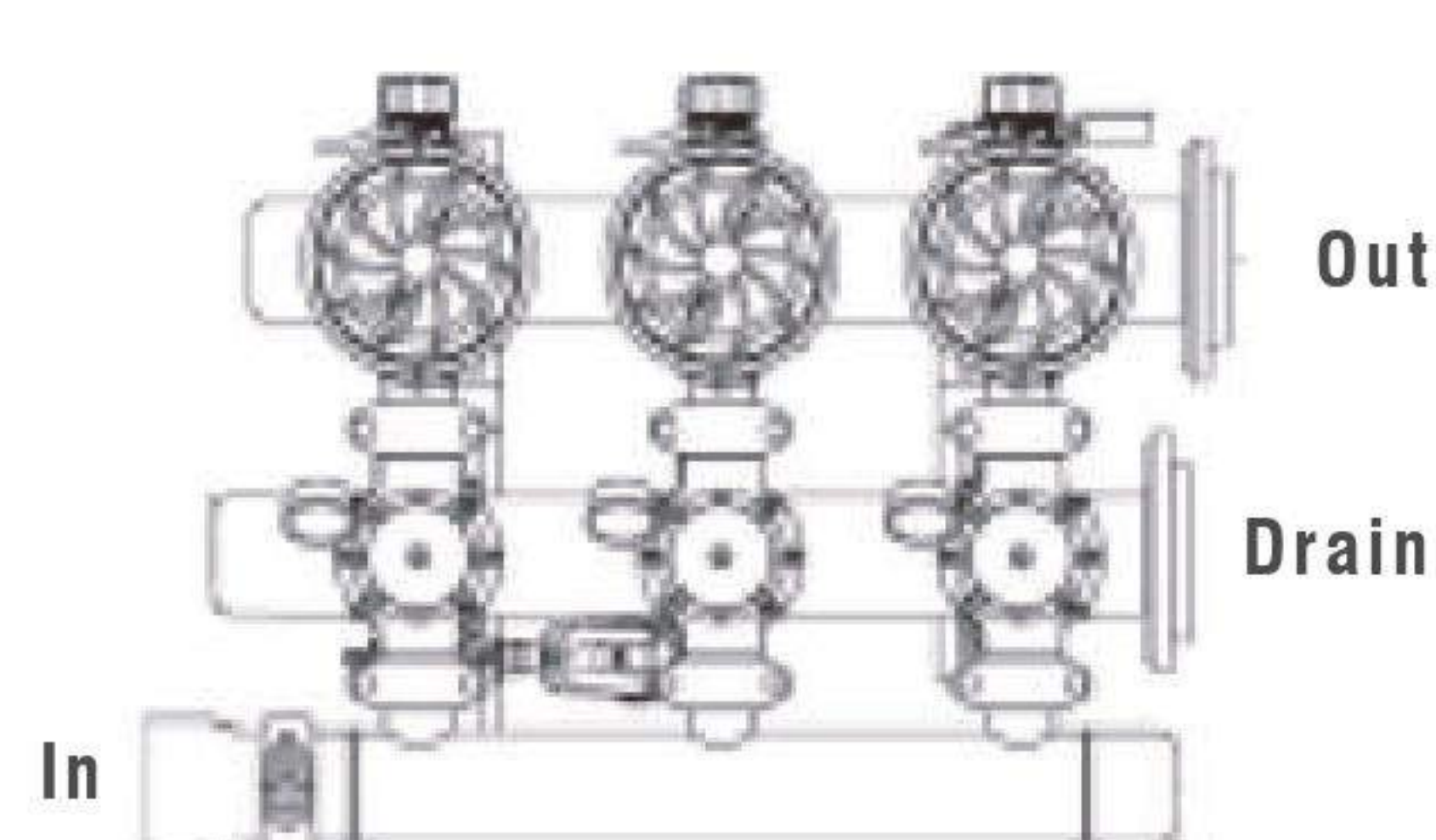
MODEL	L (mm) (in)		W (mm) (in)		H (mm) (in)		I (mm) (in)		O (mm) (in)		D (mm) (in)		E (mm) (in)	
AAS302T4	670	26.3	880	34.6	1050	41.3	470	18.5	195	7.7	145	5.7	260	10.2
AAS303T4	950	37.4	880	34.6	1050	41.3	470	18.5	220	8.7	200	7.9	260	10.2
AAS304T6	1330	52.4	910	35.8	1080	42.5	525	20.7	240	9.4	210	8.3	270	10.6
AAS305T6	1510	59.4	910	35.8	1080	42.5	525	20.7	240	9.4	210	8.3	270	10.6
AAS306T8	1790	70.5	960	37.8	1110	43.7	575	22.6	270	10.6	230	9.1	300	11.8
AAS307T8	2070	81.5	960	37.8	1110	43.7	575	22.6	270	10.6	230	9.1	300	11.8
AAS308T8	2350	92.5	960	37.8	1110	43.7	575	22.6	270	10.6	230	9.1	300	11.8

T TYPE AUTO DISC FILTRATION SYSTEM

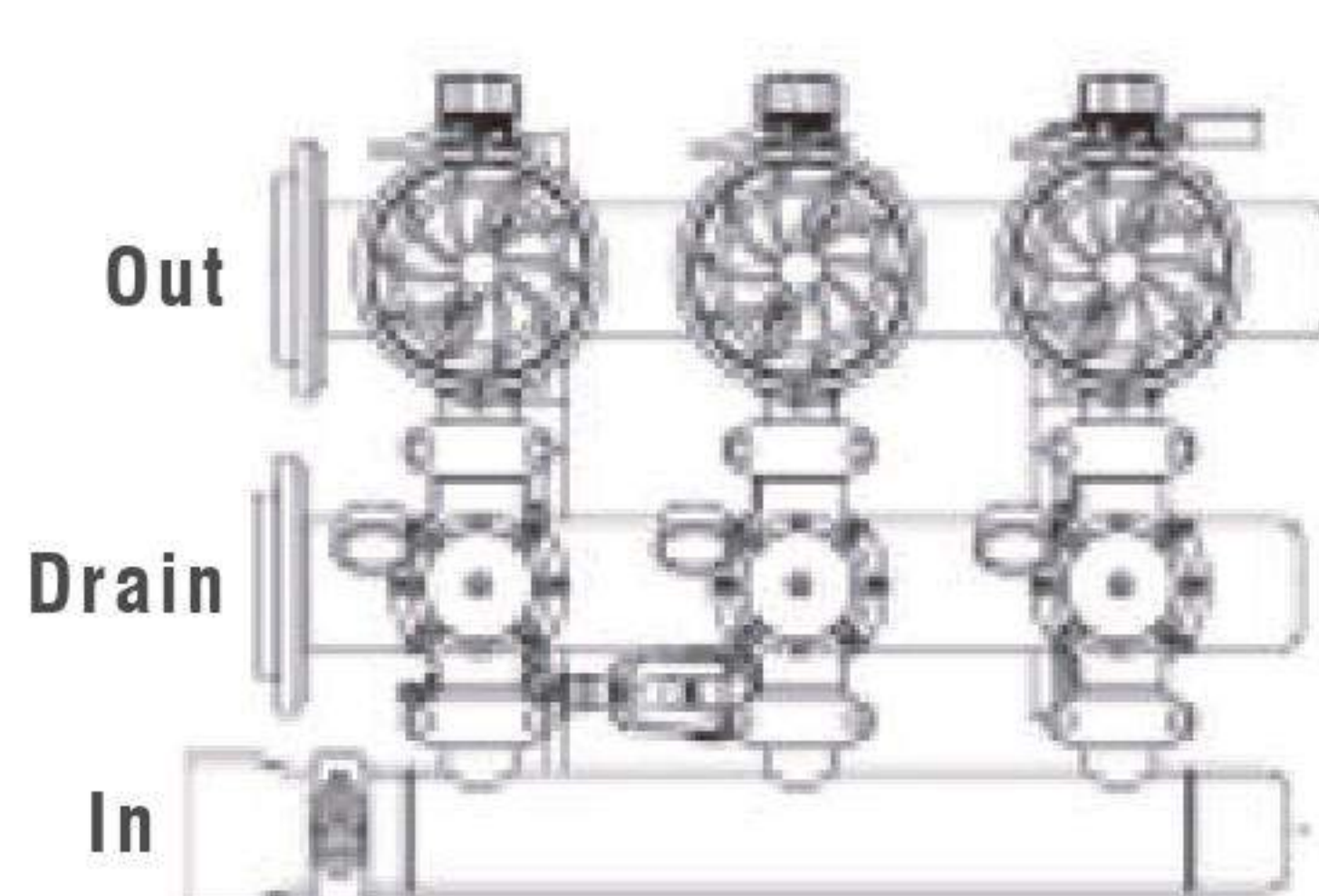


2" 3" SERIES T TYPE AUTO DISC FILTRATION SYSTEM VARIOUS INSTALLATION DIRECTION

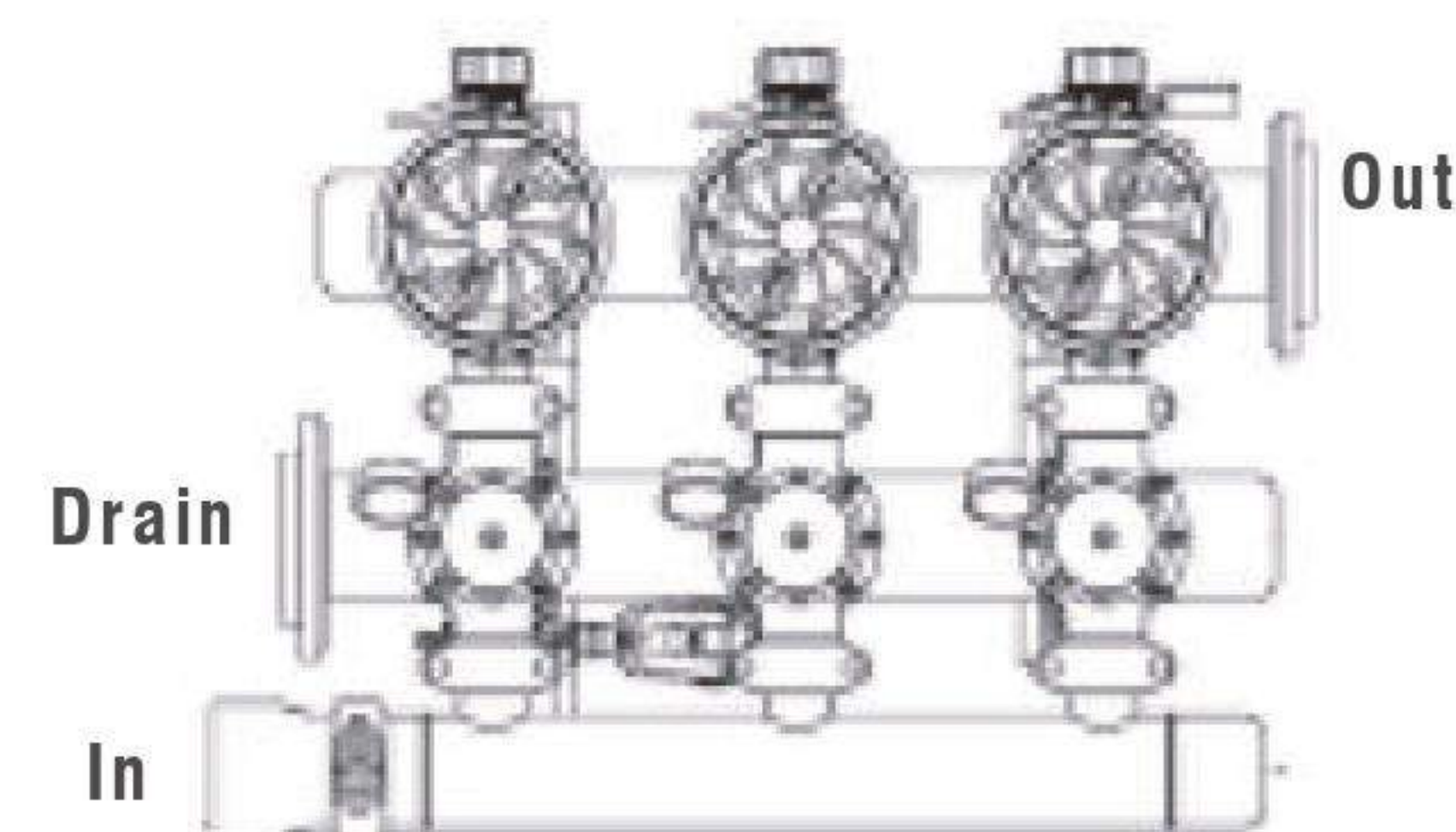
The direction of outlet, inlet and drain can be choosed according to the installed situation.



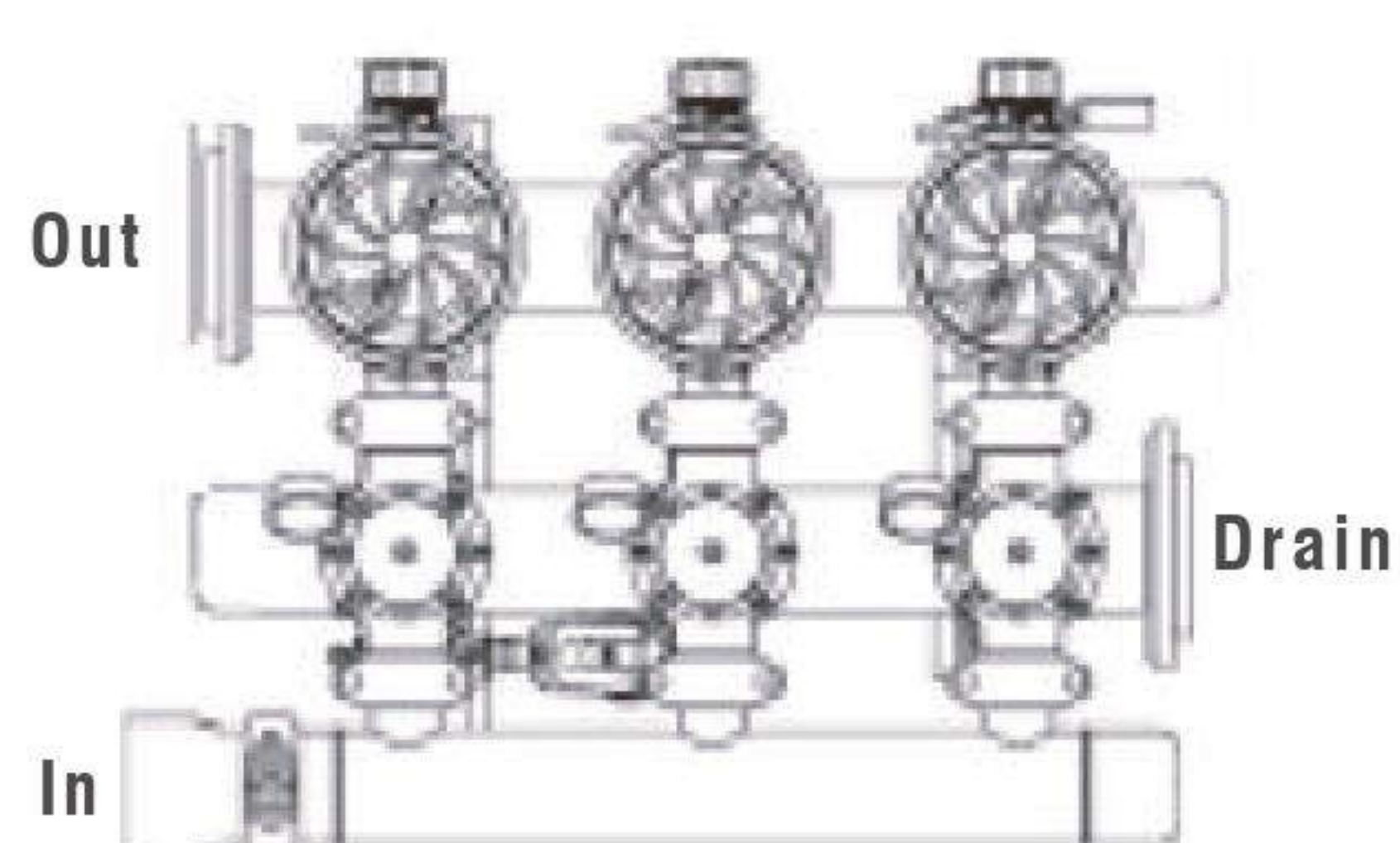
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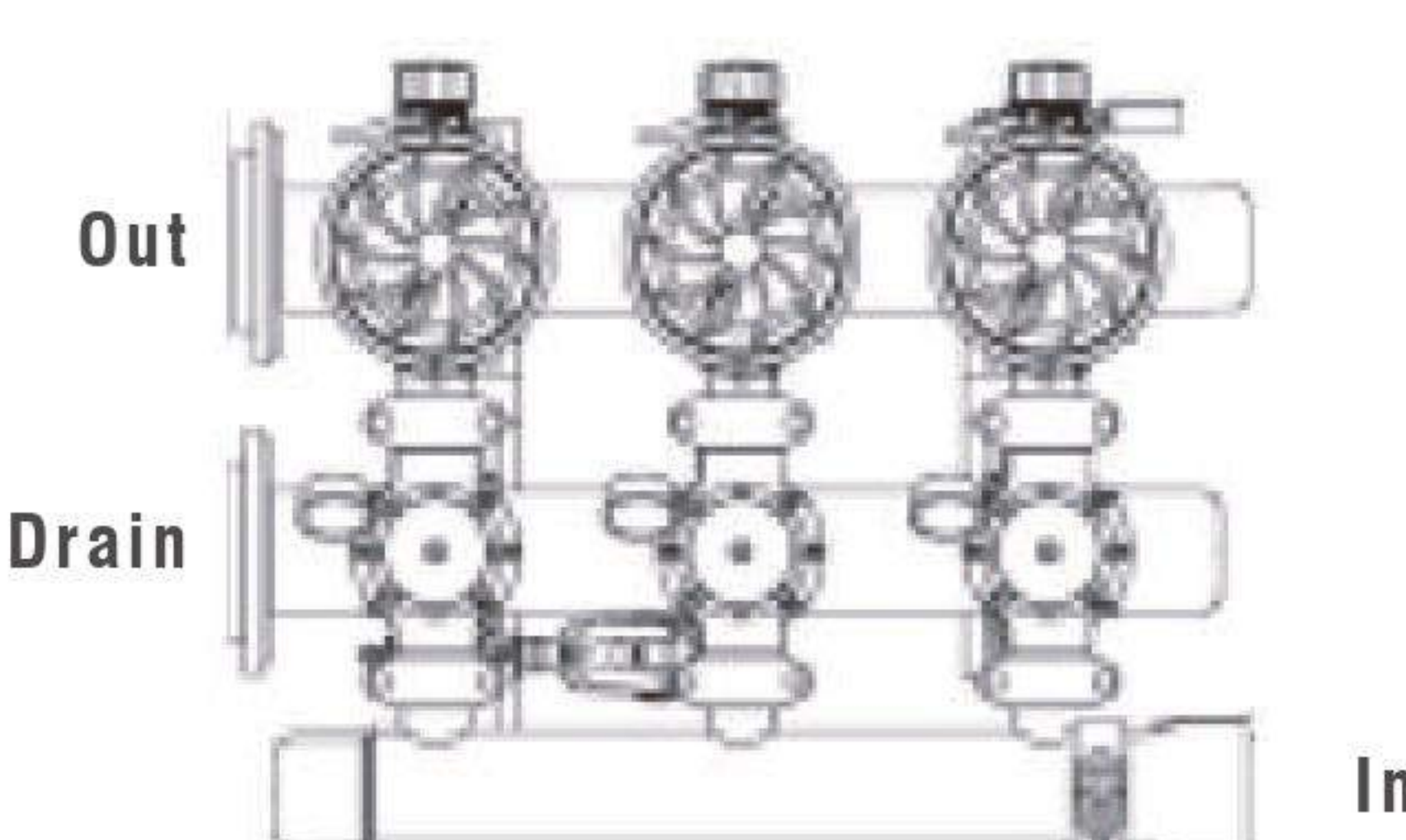
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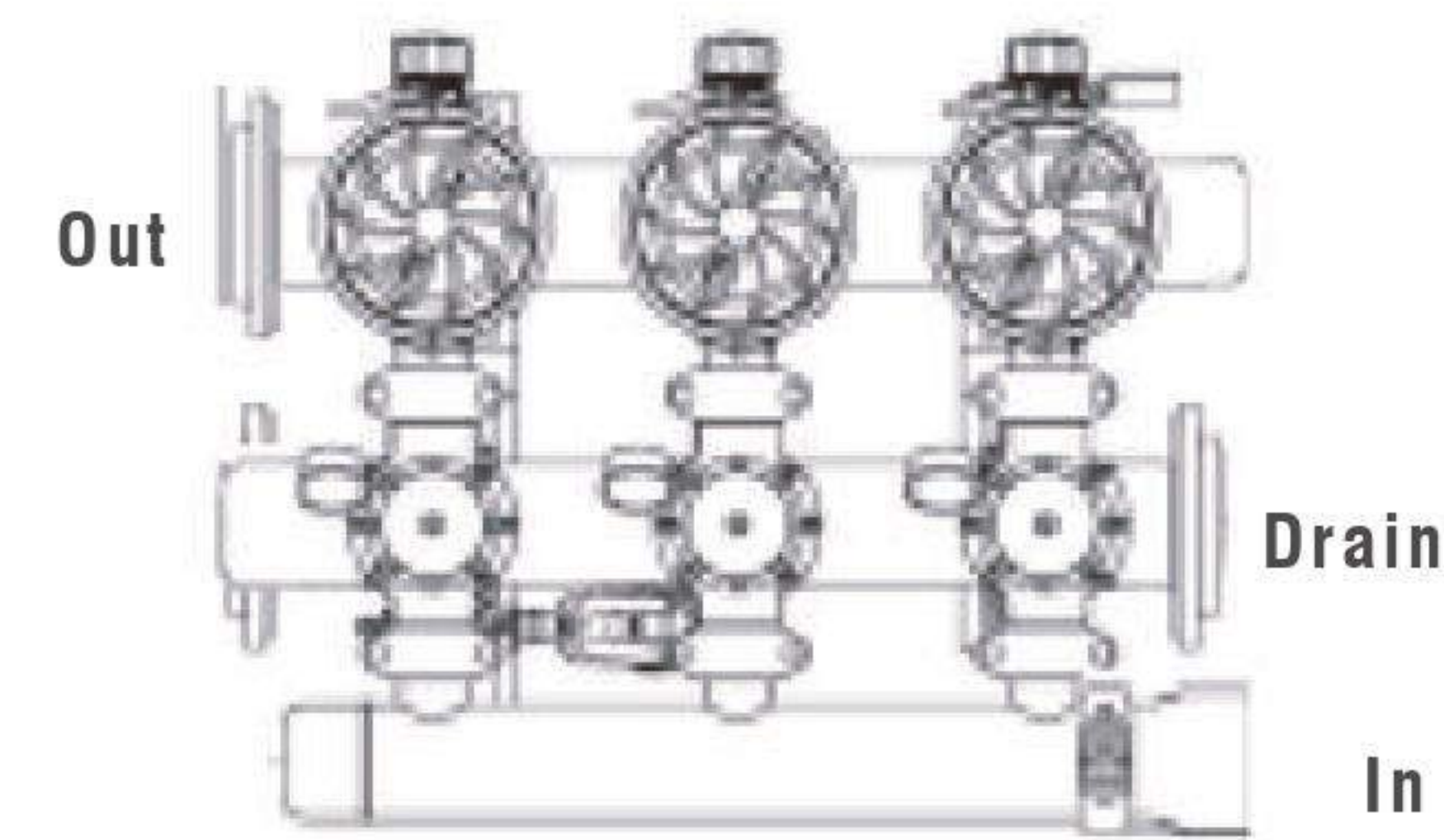
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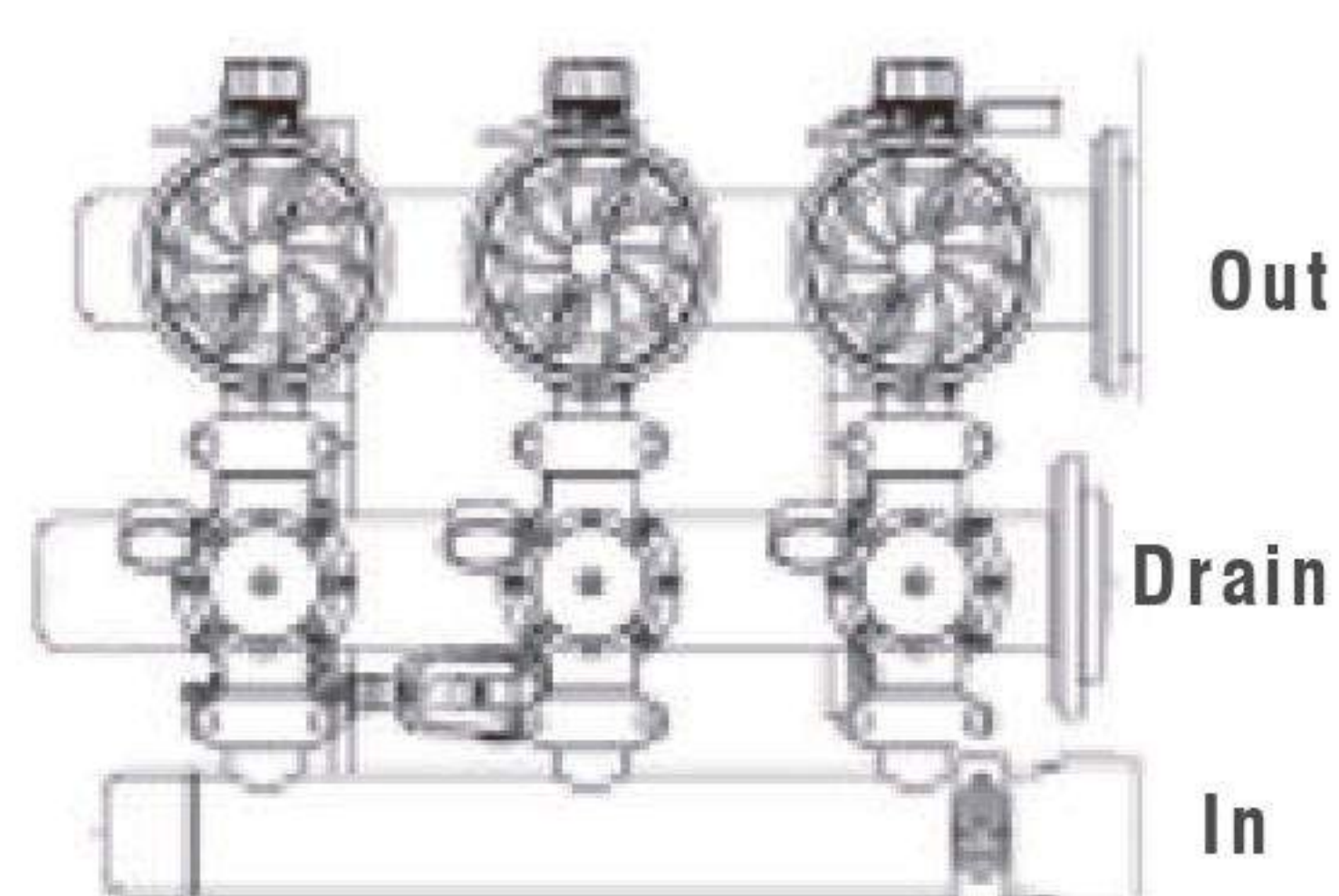
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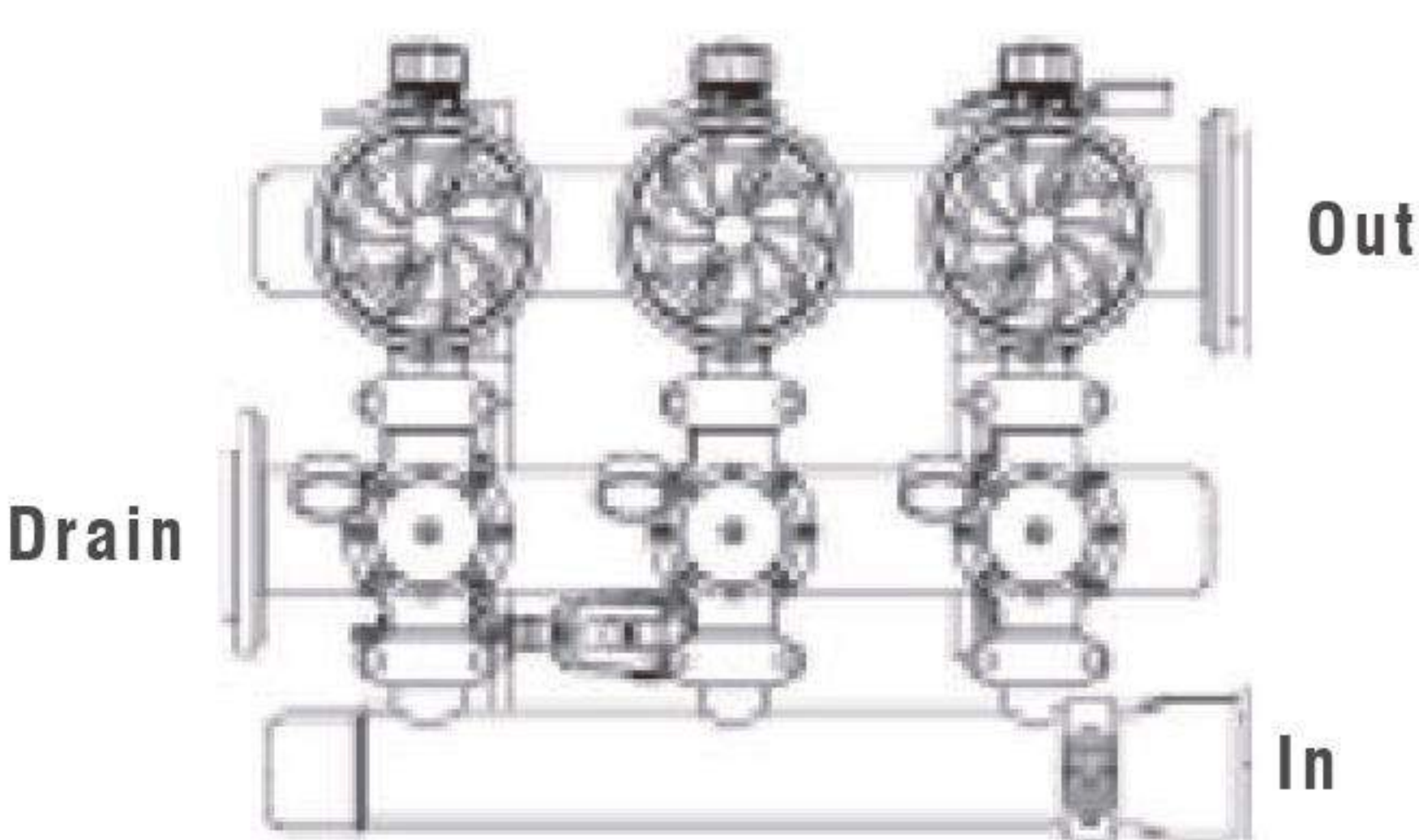
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P6



P7



P8



PROJECT CASE

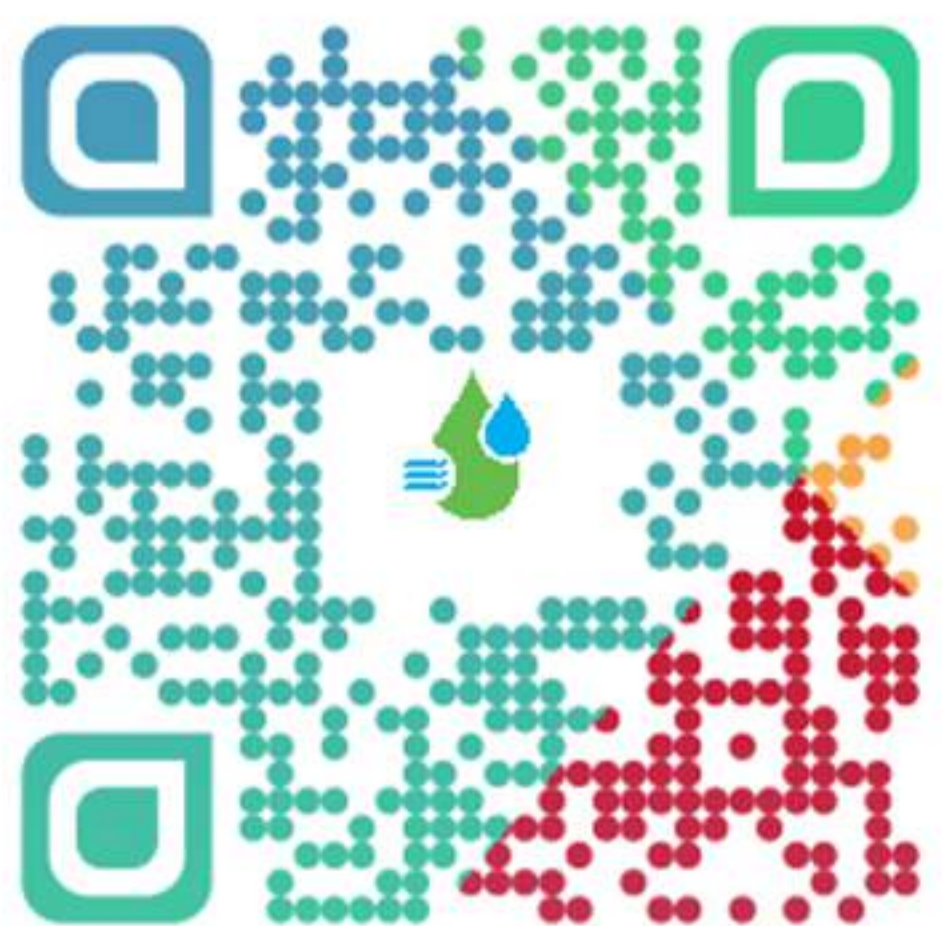






Working Towards Making Irrigation Smarter...

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