



ALPHADISC™ INLINE DISC FILTERS

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AlphaDisc™ has proved itself in the field as a lean and mean filtration machine. The AlphaDisc™ Inline range is now also available.

AlphaDisc™ is the ultimate irrigation system protection thanks to a combination of precise depth filtration, high dirt-holding capacity and a unique easy-to-scale modular design that covers a wide range of flow rates and water quality needs. AlphaDisc™ prevents clogging and partial clogging, ensuring system longevity and uniformly irrigated crops leading to better ROI, cost saving and peace of mind.

/ Application

Primary or secondary filtration for use with surface water that contains algae and other organic matter. Typical water sources are reservoirs, canals, rivers and waste water.

/ Benefits & Features

HIGH EFFICIENCY

Unique and improved disc design with precise filtration grade through all depths of the disc for better clogging protection.

HIGH DIRT-HOLDING CAPACITY

High filtration volume and area, coupled with lowest head loss in the industry, ensures higher particles capture, fewer backflush cycles, and less downstream disruption.

COST EFFECTIVE

Low backflush flow rate and low head loss results in a significantly more cost-effective irrigation system.

SMART

AlphaDisc™ smart controller is an innovative controller with always-on access to filtration data.

DURABLE

Manufactured with durable anti-corrosive materials.

/ Technical Specifications

	FILTRATION AREA	FILTRATION VOLUME	INLET/OUTLET DIAMETER	CONNECTION TYPE	MAX OPERATING PRESSURE
	cm ²	cm ³	mm		Bar
Inline PP 3-1	10 480	12 568	250	T16	10
Inline PP 3	15 720	18 852			
Inline PP 4	20 960	25 136			
Inline PP 6-2	20 960	25 136			
Inline PP 6-1	26 200	31 420			
Inline PP 6	31 440	37 704			

/ Recommended Flow Rate

WATER QUALITY	Inline PP 3-1				Inline PP 3				Inline PP 4			
	GOOD	AVERAGE	POOR	EXTREME	GOOD	AVERAGE	POOR	EXTREME	GOOD	AVERAGE	POOR	EXTREME
Micron	m ³ /h											
100	132	108	72	36	198	162	108	54	264	216	144	72
130	132	132	96	48	234	198	144	72	264	264	192	96

WATER QUALITY	Inline PP 6-2				Inline PP 6-1				Inline PP 6			
	GOOD	AVERAGE	POOR	EXTREME	GOOD	AVERAGE	POOR	EXTREME	GOOD	AVERAGE	POOR	EXTREME
Micron	m ³ /h											
100	264	216	144	72	330	270	180	90	396	324	216	108
130	264	264	192	96	330	330	240	120	396	396	288	144

/ Flushing Data

	MIN PRESSURE FOR BACK-FLUSH	BACKFLUSH FLOW RATE*	RECOMMENDED FLUSHING TIME	REJECT WATER VOLUME PER FLUSH CYCLE*	BACKFLUSH MANIFOLD DIAMETER	BACKFLUSH MANIFOLD CONNECTION TYPE
	bar	m ³ /h	seconds	ℓ	mm	
Inline PP 3-1	1,5	13	18	65	80	GROOVED/ FLANGED
Inline PP 3						
Inline PP 4						
Inline PP 6-2						
Inline PP 6-1						
Inline PP 6						

*At 1.5 bar pressure and one spine at a time.

*When downstream pressure is more than 6 bar during the backwash cycle, installing an orifice valve in the drain manifold is recommended to prevent damage to the spines and discs.

/ Contraction Materials and Temperature

FILTER HOUSING AND LID	RPA (REINFORCED POLYAMIDE)
DISCS	PP (POLYPROPYLENE) or PA (POLYAMIDE)
CLEANING MECHANISM	ALL POLYMERIC
EXHAUST VALVE	ALL POLYMERIC
SEALS	EPDM
OPERATING TEMPERATURE	5 – 60 °C

