NETAFIM™
GROW MORE WITH LESS

# ALPHADISC™**INLINE** DISC FILTERS

DISC FILTERS

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 |
|---|---|---|---|---|---|
| | cm² | cm³ | mm | | Bar |
| Inline PP 3-1 | 10 480 | 12 568 | 250 | Flange | 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 | | | |

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## Recommended Flow Rate

| | Inline PP 3-1 | | | | Inline PP 3 | | | | Inline PP 4 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WATER QUALITY | GOOD | AVERAGE | POOR | EXTREME | GOOD | AVERAGE | POOR | EXTREME | GOOD | AVERAGE | POOR | EXTREME |
| Micron | m³/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 |

| | Inline PP 6-2 | | | | Inline PP 6-1 | | | | Inline PP 6 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WATER QUALITY | GOOD | AVERAGE | POOR | EXTREME | GOOD | AVERAGE | POOR | EXTREME | GOOD | AVERAGE | POOR | EXTREME |
| Micron | | | | | | | | | | | | |
| 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 | m³/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 |

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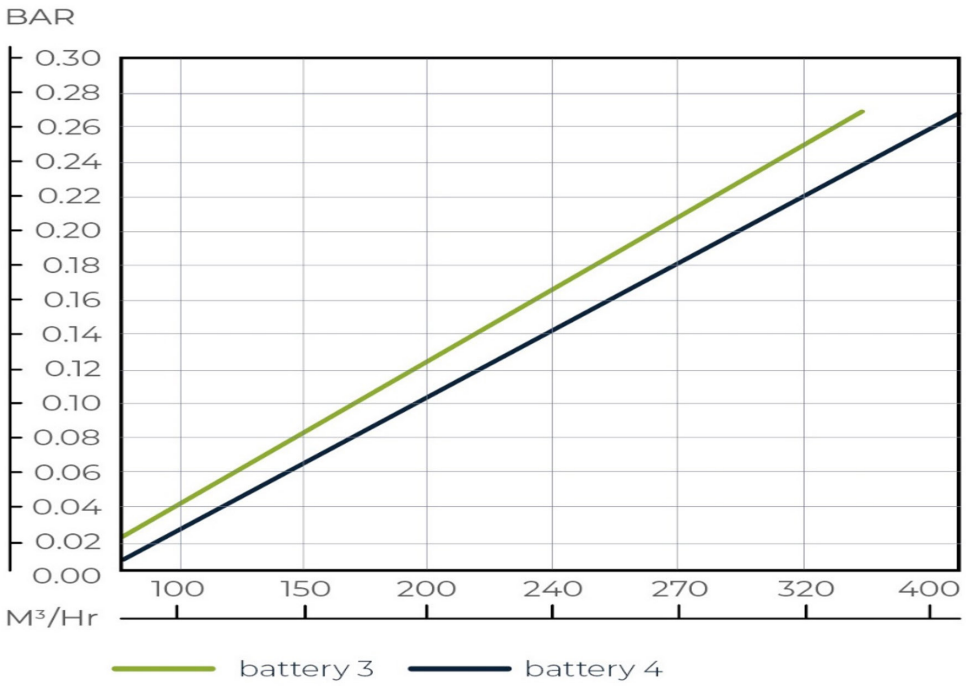
# Head Loss

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