

2″ Spin Klin™ Compact

Automatic Compact (stand alone) disc filter for low flow rates



features:

- Micron-precise depth filtration of solids
- Innovative disc technology captures and retains large amounts of solids
- Long-term operation with minimal maintenance
- Easy and simple operation

- Short automatic backwash with regulated water volume for a small water footprint
- Permanently eliminates the need to replace filter media
- Compact design

How the 2" Spin Klin™ Compact Filters Work

General

The Arkal 2" Spin Klin[™] Compact filter is a stand alone, polymeric, automatic disc filters with a patented self-cleaning backwash mechanism. The Arkal 2" Spin Klin[™] Compact filter is for flow rates of up to 20 m³/h (88 gpm) with filtration degrees ranging from 20 – 400 micron. Inlet /Outlet - 50 mm (2") diameter.

The Filtration Process

The discs are stacked on the Spin Klin[™] spine and assembled according to pre-determined water filtration requirements. During filtration, the discs are compressed by means of a pre-loaded spring and differential pressure, forcing the water to pass through the grooved disc surface, thus trapping the solids.



The Backwash Process

Activated by a pre-determined time command or differential pressure, the filter enters backwash mode. The inlet valve port shuts as the drain valve port opens. Water flows through a bypass filter screen into the outlet valve and into the filter. During the backwash process, pressure is released and the spine's piston elevates, releasing the compression on the discs. Tangential jets of filtered water are then forced through the nozzles positioned along the spine. At this stage the discs spin freely, loosening the trapped solids which are then flushed out.

*Please note: During backwash of the 2" Spin Klin™ Compact, downstream flow is suspended.

| Construction materials | |
|------------------------|--|
| Filter Housing & Lid | RPA (Reinforce Polyamide) or RPP (Reinforce Polypropylene) |
| Disc elements | PP (Polypropylene) or PA (Polyamide) |
| Backwash valves | RPA (Reinforce Polyamide) or RPP (Reinforce Polypropylene) |
| Manifolds | PP (Polypropylene) |
| Seals | NBR or EPDM, (Viton optional) |
| Control Tubing | PE or PA |

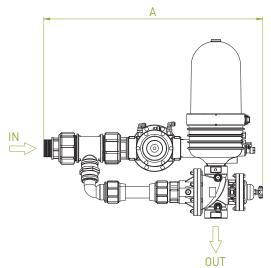
Disc material type availability according to filtration degree:

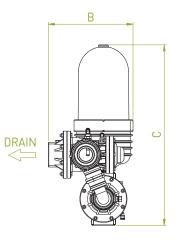
| Color Code | Gray | Purple | Green | Brown | Black | Red | Yellow | Blue |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|------|
| Micron | 20 | 40 | 55 | 70 | 100 | 130 | 200 | 400 |
| PP Disc PA (Nylon) Disc | PP, PA | PP | PP, PA | PP |

| Filter Type | | 2" Spin Klin™ Compact | | |
|-----------------------------|------|---|--|--|
| General Data | | | | |
| Max. working pressure | | 10 bar (145 psi) | | |
| Min. backwash pressure | | 2.8 bar (40.6 psi) | | |
| Max. recommended flow rates | 130µ | 15 m³/h (66 gpm) | | |
| Filtration volume | | 1,148 cm ³ (70 in ³) | | |
| Filtration area | | 880 cm² (124 in²) | | |
| Inlet/Outlet diameter | | 50 mm (2") | | |
| Max. working temperature | | 60°C (140°F) | | |
| Dry weight | | 20 kg (44 lb) | | |

| Backwash Data | |
|---------------------------|------------------|
| Exhaust valve | 50 mm (2") |
| Flushing time | 20 sec |
| Minimum flow for backwash | 10 m³/h (44 gpm) |

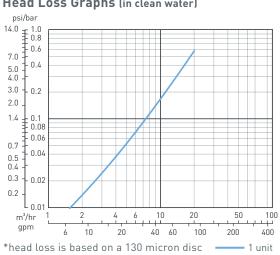
Typical Installation Drawing





| Dimensions | | 1 unit battery |
|------------|--------|-------------------|
| А | Length | 749 mm (29 1/2") |
| В | Width | 287 mm (11 5/16") |
| С | Height | 612 mm (24 3/32") |

Head Loss Graphs (in clean water)





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