

Disc Kleen Automatic Disc Filter

Filtration Process: As dirty water travels through a Disc-Kleen Filter, debris is captured along the walls and in the grooves of the channels in the filter element. During the backflush cycle, the valve changes position, the pressure in the outlet manifold loosens the discs automatically. A specially designed nozzle system inside the filter stack then sprays pressurized water against the loosened discs, spinning them clean quickly and efficiently. After backflushing, the stack of discs automatically compress to resume filtration. Available in Disc Filter and Compact Disc.

Disc Filter

| 2" Disc-Kleen Technical Data | | | |
|------------------------------|----------|----------|----------|
| Number Of Filters | 2 | 3 | 4 |
| Weight | 174 lbs. | 220 lbs. | 266 lbs. |
| Max. Pressure | 140 psi | 140 psi | 140 psi |
| Min. Pressure for Backflush | 45 psi | 45 psi | 45 psi |
| Amount of Backflush Water | 18 gal | 27 gal | 36 gal |

| 3" Disc-Kleen Technical Data | | | |
|------------------------------|----------|----------|----------|
| Number Of Filters | 2 | 3 | 4 |
| Weight | 352 lbs. | 407 lbs. | 467 lbs. |
| Max. Pressure | 140 psi | 140 psi | 140 psi |
| Min. Pressure for Backflush | 45 psi | 45 psi | 45 psi |
| Amount of Backflush Water | 54 gal | 72 gal | 90 gal |

Product Advantages

- Quick installation - factory assembled and tested, arriving on a pallet ready for hook up and immediate operation
- Less maintenance - new molded spine, chemically resistant and performs reliable backflush. Manual cleaning is practically eliminated.
- Filtration grade versatility - filtration discs can be changed quickly and easily from 80 mesh up to 200 mesh
- Optimizes irrigation - less backflush time means more uniform application of water in the field
- System flexibility - each Disc-Kleen Battery is capable of handling a wide operational flow range
- Lasts longer - Manufactured from engineered synthetics to resist rust and corrosion from chemicals and weather.

Applications

- For surface water containing algae and other organic materials such as reservoirs, canals, rivers, and waste water applications.
- For well water containing light sand and other contaminants.

Specifications

Inlet & outlet connections: grooved and flanged

Backflush valve flush port: 2" NPT

Maximum operating pressure: 140 psi

Minimum backflush pressure required: 45 psi

Minimum backflush flow per spine: 30 GPM

Standard mesh sizes and color:

80 - yellow,

120 - red,

140 - black



| 2" x 2" Filters Water Source Maximum Flow Rate (GPM) | | | | |
|---|-----|-----|-----|-----|
| Mesh Size | 80 | 120 | 140 | 200 |
| Good | 198 | 190 | 175 | 130 |
| Average | 180 | 165 | 130 | 95 |
| Poor | 140 | 120 | 90 | 65 |
| Very Poor | 80 | 70 | 55 | 40 |

| 2" x 3" Filters Water Source Maximum Flow Rate (GPM) | | | | |
|---|-----|-----|-----|-----|
| Mesh Size | 80 | 120 | 140 | 200 |
| Good | 295 | 285 | 260 | 195 |
| Average | 270 | 245 | 195 | 140 |
| Poor | 210 | 180 | 135 | 95 |
| Very Poor | 120 | 105 | 80 | 60 |

| 2" x 4" Filters Water Source Maximum Flow Rate (GPM) | | | | |
|---|-----|-----|-----|-----|
| Mesh Size | 80 | 120 | 140 | 200 |
| Good | 396 | 380 | 350 | 260 |
| Average | 360 | 330 | 260 | 190 |
| Poor | 280 | 240 | 180 | 130 |
| Very Poor | 160 | 140 | 110 | 80 |

| 3" x 3" Filters Water Source Maximum Flow Rate (GPM) | | | | |
|---|-----|-----|-----|-----|
| Mesh Size | 80 | 120 | 140 | 200 |
| Good | 540 | 480 | 410 | 260 |
| Average | 450 | 410 | 300 | 210 |
| Poor | 350 | 295 | 210 | 160 |
| Very Poor | 250 | 200 | 150 | 120 |

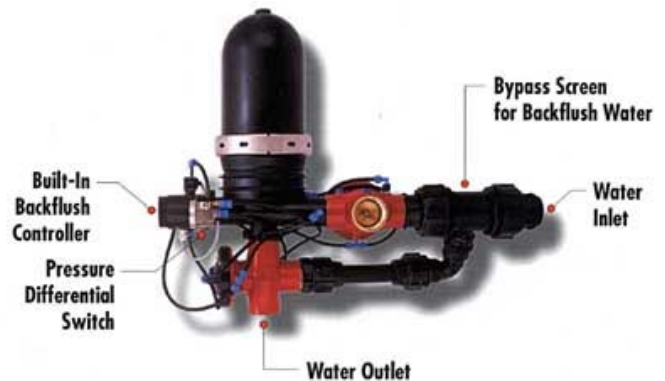
| 3" x 4" Filters Water Source Maximum Flow Rate (GPM) | | | | |
|---|-----|-----|-----|-----|
| Mesh Size | 80 | 120 | 140 | 200 |
| Good | 720 | 640 | 550 | 350 |
| Average | 600 | 550 | 400 | 280 |
| Poor | 470 | 395 | 280 | 215 |
| Very Poor | 330 | 270 | 200 | 160 |

| 3" x 5" Filters Water Source Maximum Flow Rate (GPM) | | | | |
|---|-----|-----|-----|-----|
| Mesh Size | 80 | 120 | 140 | 200 |
| Good | 900 | 800 | 685 | 430 |
| Average | 750 | 685 | 500 | 350 |
| Poor | 585 | 495 | 350 | 270 |
| Very Poor | 420 | 335 | 250 | 200 |

Compact Disc

Product Advantages

- Automatic self cleaning filter for low volume capacity (35-80 GPM)
- Corrosion free, plastic filter and manifold
- Proven Disc Kleen filter technology
- Reliable backflush valves with built in backflush controller
- Compact unit ready for hookup
- Uses clean water (through easily accessible by pas screen filter) for backflush



Applications

- Irrigation systems with a capacity of 35-80 GPM requiring clean water to operate drippers or micro sprinklers in the Agriculture, Greenhouse, and Nursery markets.
- For industrial use:
 - recycled water
 - water discharged from a plant
- For areas without electricity (the backflush operates on a 9 VDC battery)
- When automation is desirable because manual cleaning is frequent and too cumbersome.
- Compact design fits in tight spaces

Specifications

Inlet: 2" Male Pipe Thread

Outlet: 2" Female Pipe Thread

Flush Port: 2" Female Pipe Thread

Maximum Operating Pressure: 140 psi

Minimum Pressure for Backflush: 45 psi

Minimum Flow for Backflush: 30 GPM

Materials

Flush valves: bronze with plastic cover

Seals: nitrilo rubber, EPDM

Filter & Spine: reinforced polyamide

Discs: polypropylene

Clamp & Screws: stainless steel

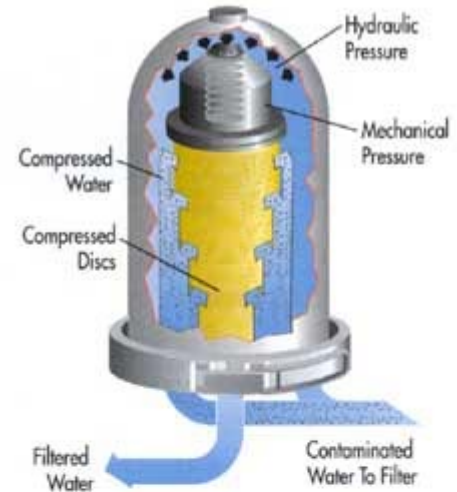
Description Of Operation

- Contaminated water flows from the inlet manifold through the backflush valves and through the filters.
- Clean water exits the filters and flows through the outlet manifold to the system

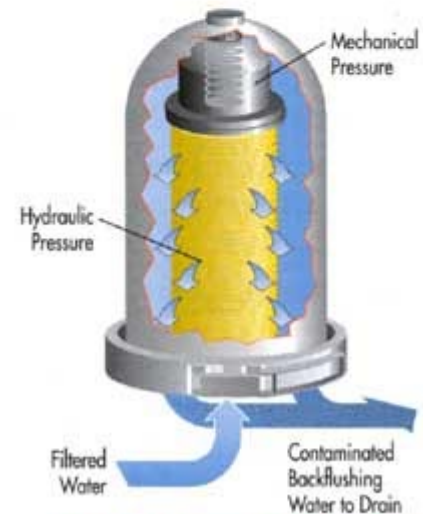
Automatic Backflush

- Pressure differential switch activates controller at 7 psi differential
- Solenoid closes inlet valve, opens outlet valve and separates the discs
- Water flows through the bypass filter to the spine
- Water jets spin and clean the discs
- Dirty water discharges through the flush port
- During flush time of 20 seconds, there is no flow to the field

Note: Inspect In-line screen on a regular basis, frequency is based on the quality of the water.



Filtration



Automatic Backflush

Available from:

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