

# Arkal 4" Super Leader Filter

Catalog No. 1440 5\_ \_ \_



## Features

- High corrosion resistance
- High flow capacity
- Pressure differential disc compression
- Large filtration area
- Detachable spine
- Robust design
- Drain valve
- Available in seven filtration grades

## Dismantling

1. Make sure that the water inlet is turned off and pressure is released.
2. Drain the filter through the drainage valve.
3. Open the cover by pulling the safety pin out and lifting the clamp lever.
4. Remove the filter cover with a slight anticlockwise rotation.
5. Remove the filter element.
6. Release the spine-tightening nut.
7. Pull the cap's telescopic extension to decompress the discs.
8. Rinse using a high-pressure water jet.

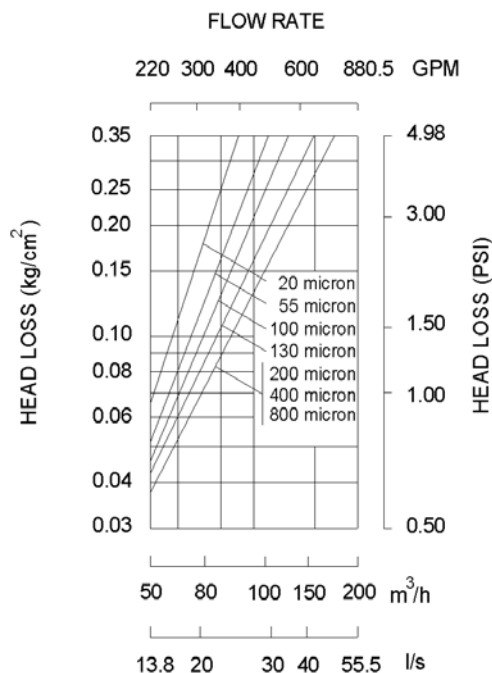
## Assembly

1. Close the spine tightening nut until the discs are tightly compressed.
2. Position the filter element back in place.
3. Place the filter cover on the filter body and secure it with a slight clockwise rotation.
4. Secure the clamp onto the cover and close using the lever, insert the safety pin.

## Filtration Grades

- Off-white (800 micron / 18 mesh)
- Blue (400 micron / 40 mesh)
- Yellow (200 micron / 80 mesh)
- Red (130 micron / 120 mesh)
- Black (100 micron / 140 mesh)
- Green (55 micron)
- Grey (20 micron)

## Head Loss Chart



## Comments

1. Flange: Bolt length – recommended 5/8" 100-110mm. Use standard washers.
2. 3/4" drain valve to be assembled by the user. The valve is sealed by an o-ring. No need for additional sealing materials.

### Technical Data

|                                |                       |                     |
|--------------------------------|-----------------------|---------------------|
| Inlet/Outlet diameter          | 110 mm                | 4"                  |
| Max. pressure                  | 10 bar                | 145 psi             |
| Max. flow rate 400-100 micron  | 100 m <sup>3</sup> /h | 440 gpm             |
| Filtration area                | 3704 cm <sup>2</sup>  | 574 in <sup>2</sup> |
| Filtration volume              | 3548 cm <sup>3</sup>  | 216 in <sup>3</sup> |
| Filter length                  | 1190 mm               | 47"                 |
| Filter width                   | 330 mm                | 13"                 |
| Distance between connections * | 445 mm                | 17.5"               |
| Weight                         | FL. 24 Kg             | 52.8 lbs            |
|                                | VIC. 22 Kg            | 48.4 lbs            |
| Maximum temperature            | 60° C                 | 140° F              |
| pH                             | 2-13 (at 20°C)        | 2-13 (at 68°F)      |

\* Optional – 415 mm / 16.3" for old version victaulic ends.

### Part List

| No. | Cat. No.    | Description                          | Materials |
|-----|-------------|--------------------------------------|-----------|
| 1.  | 2501 0601   | Filter cover                         | PP        |
| 2.  | 5005 0004   | Hydraulic seal                       | EPDM      |
| 3.  | 5042 0060   | Clamp                                | SS        |
| 4.  | 2506 0302   | 3"-4" spine tightening nut           | RPP       |
| 5.  | 2506 0304   | 3"-4" spine cap                      | RPP       |
| 6.  | 2033 2_ _ _ | Disc set                             | PP        |
| 7.  | 5003 2220   | O-ring 2-220                         | EPDM      |
| 8.  | 2502 0302   | 3"-4" spine 99                       | RPP       |
| 9.  | 5003 2311   | O-ring 2-311                         | EPDM      |
| 10. | 5054 0112   | 3/4" tap                             | BRASS     |
| 11. | 5006 0004   | Gauge port seal                      | EPDM      |
| 12. | 2511 0103   | Gauge port nut                       | RPP       |
| 13. | 2510 0425   | 4" AK flange                         | RPA       |
| 14. | 2507 0402   | Flange clamp ring                    | POM       |
| 15. | 5005 2014   | Gasket 4" style 90                   | EPDM      |
| 16. | 2140 2_ _ _ | 3"-4" filter element 99              |           |
|     | 2199 0043   | 3"-4" spine 99 (w/o disc set)        |           |
| 17. | 2245 0001   | 4" body complex victaulic ends       |           |
| 18. | 2245 0002   | 4" short body complex victaulic ends |           |

### Materials:

- RPP - Reinforced polypropylene
- PP - Polypropylene
- RPA - Polyamide
- POM - Polyacetal
- SS - Stainless Steel

