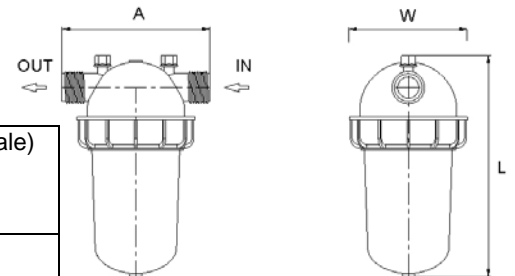


# Arkal 1" Short Filter

Catalog No. 1100 0\_ \_ \_

## Features

- A "T" shaped filter with two 1" male threads.
- A "T" volume filter for in-line installation on 1" pipelines.
- The filter prevents clogging due to its enlarged filtering area that collects sediments and particles.
- Manufactured entirely from fiber-reinforced plastic.
- A cylindrical column of grooved discs constitutes the filter element.
- Spring keeps the discs compressed.
- Screw-on filter cover.
- Filter discs available in various filtration grades.



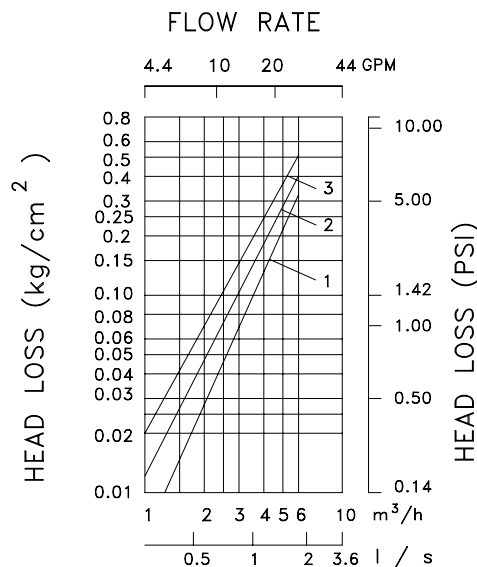
## Technical Data

Inlet/Outlet diameter	1" BSPT (male)	1" NPT (male)
	25 mm – nominal diameter	
	33.6 mm – pipe diameter (O. D.)	
Maximum pressure	10 bar	145 psi
Maximum flow rate	6 m <sup>3</sup> /h (1.7 l/sec)	26 gpm
Total filtration area	316 cm <sup>2</sup>	49 in <sup>2</sup>
Total filtration volume	379 cm <sup>3</sup>	23 in <sup>3</sup>
Filter length L	233 mm	9 3/16"
Filter width H	130 mm	5 3/32"
Distance between connections W	158 mm	6 7/32"
Weight	1.1 Kg	2.4 lbs
Maximum temperature	70° C	158° F
pH	5-11	5-11

## Filtration Grades

- Blue (400 micron / 40 mesh)
- Yellow (200 micron / 80 mesh)
- Red (130 micron / 120 mesh)
- Black (100 micron / 140 mesh)
- Green (55 micron)

## Head Loss Chart



### Installation

1. Filter may be installed either vertically or horizontally.
2. Use Teflon tape on filter end connections.
3. Never use spanners for tightening the filter cover.

### Maintenance

If the filter discs are covered with lime deposits then remove the element and treat with chloric acid.

### Dismantling

1. Turn off the water.
2. Make sure that the pressure is released from the filter.
3. Unscrew the nut cover from the filter body.
4. Pull out the filter element.
5. Move the stop ring to the end of the spine.
6. Flush the discs with the water jet.

### Assembly

1. Verify that the tightening spring is placed in the bottom of the filter cover.
2. Assemble in reverse order.
3. Tighten the cover by turning the fixing nut clockwise and don't over tighten.

### Part List - 1" Short Filter, Catalog No. 1100 0\_ \_ \_

No.	Cat. No.	Description	Materials
1.	2511 0103	Gauge ports nut	R.PP
2.	5006 0004	Gauge ports seal	EPDM
3.	2507 0100	Filter adaptor ring	R.PP
4.	2507 0102	Stop ring for element	PBT
5.	2010 1_ _ _	Disc set	PP
6.	2502 0100	Spine	R.PP
7.	5002 9004	90x4 O-ring	N.R
8.	5044 0010	Filter spring	S.S.
9.	2501 0100	Filter cover	R.PA
10.	5054 0008	¼" Tap	BRASS
11.	2506 0100	Fixing nut	R.PA
12.	2110 1_ _ _	Filter element	
13.	2530 0115	1" - 1½" Filter wrench	R.PA
14.	2208 0001	Filter body complex BSP	
	2208 0002	Filter body complex NPT	

N.R. - Nitrile rubber

R.PP - Reinforced polypropylene

R.PA - Reinforced polyamide

