

Arkal 1" Super Filter

Catalog No. 1102 0_ _ _

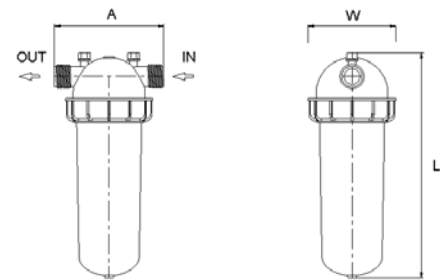
Features

- ◆ 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 are available in various filtration grades.



Technical Data

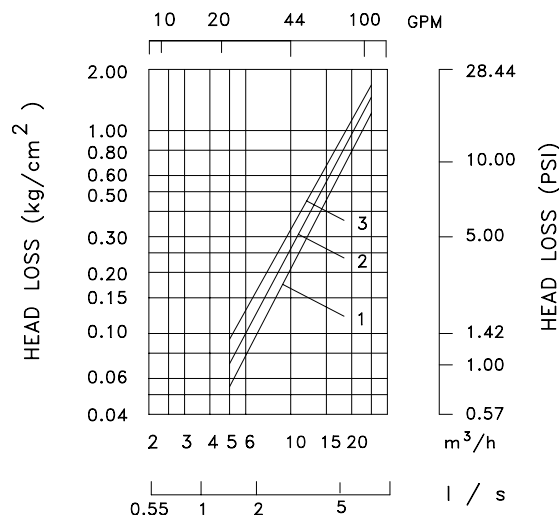
Inlet/outlet diameter	1" BSPT (male)	1" NPT (male)
	25.0 mm – nominal diameter	
	33.6 mm – pipe diameter (O. D.)	
Maximum pressure	10 atm	145 psi
Maximum flow rate	8 m ³ /h (1.7 l/sec)	35 gpm
General filtration area	500 cm ²	77.5 in ²
Filtration volume	600 cm ³	37 in ³
Filter length L	340 mm	13 13/32"
Filter width W	130 mm	5 3/32"
Distance between end connections A	158 mm	6 7/32"
Weight	1.420 kg	3.13 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 cover from the filter body.
4. Pull out the filter element.
5. Move the sealing ring to the end of the spine.
6. Flush the discs with the water jet.

Assembly

1. Verify that the tightening spring is placed at 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

No.	Cat. No.	Description	Materials
1	2511 0103	Gauge port nut (single unit)	RPP
2	5006 0004	Gauge port seal (single unit)	EPDM
3	2500 0100	Filter body (BSP)	RPA
	2500 0101	Filter body (NPT)	RPA
4	2507 0100	Filter adaptor ring	RPA
5	2507 0102	Element retaining ring	PBT
6	2012 1_ _ _	Disc set	PP
7	2502 0111	Spine	RPA
8	5002 9004	O-ring 90x4	NR
9	5044 0011	Compression spring	SS
10	2501 0111	Filter cover	RPA
11	2506 0100	Fixing nut	RPA
12	5054 0008	¼" Tap	BRASS
13	2112 1_ _ _	Filter element	PP
14	2530 0115	1"-1½" Filter wrench	RPA
15	2208 0001	Filter body complex BSP	
	2208 0002	Filter body complex NPT	

Materials:

R.P.P. - Reinforced Polypropylene
 R.P.A. - Reinforced Polyamide
 S.S. - Stainless Steel
 P.P. - Polypropylene
 N.R. - Nitrile Rubber
 P.C. - Polycarbonat

