

Arkal 1" Super Filter

Catalog No. 012002-*****

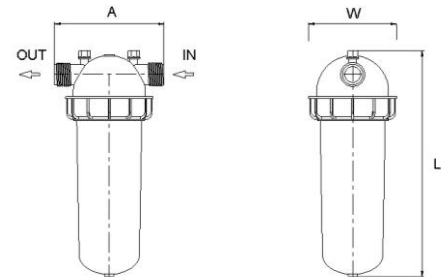
Features

- ◆ 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

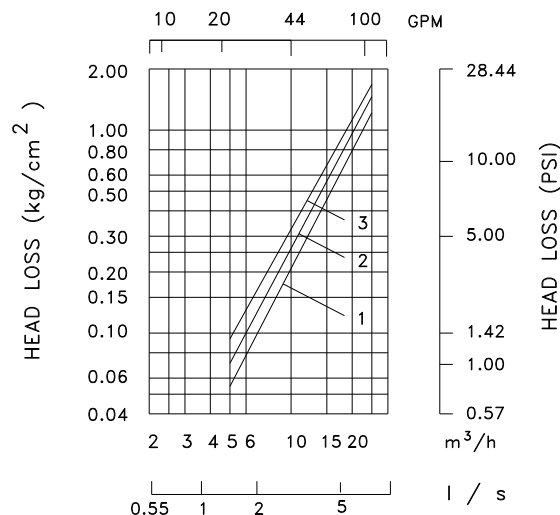
Inlet/outlet diameter	1" BSPT (male)	1" NPT (male)
	25.0 mm – nominal diameter	
	33.6 mm – pipe diameter (O. D.)	
Maximum pressure	10 bar	145 psi
Maximum flow rate	8 m ³ /h (1.7 l/sec)	35 gpm
General filtration area	500 cm ²	77.5 in ²
Filtration volume	600 cm ³	37 in ³
Filter length L	340 mm	13 13/32"
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)

Headloss 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

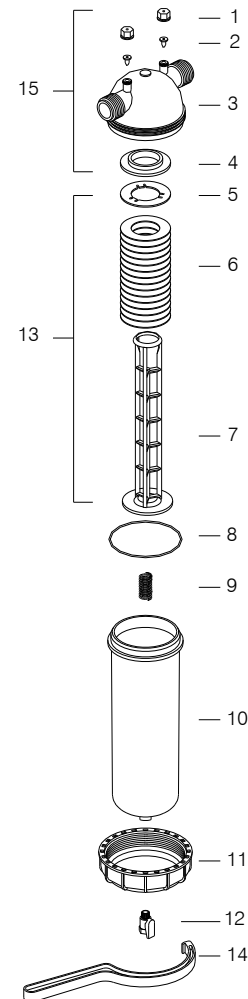
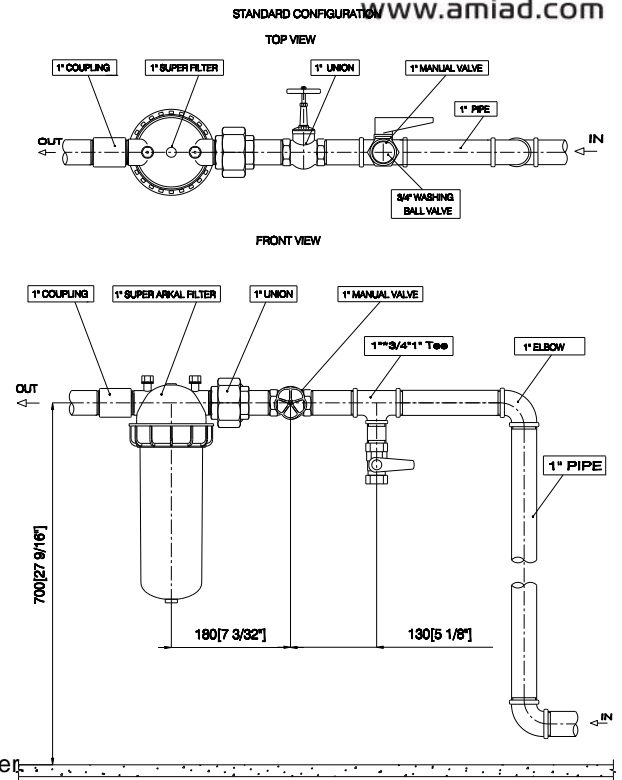
1. Verify that the tightening spring is placed at the bottom of the filter cover.
2. Assemble in reverse order.
3. Tighten the cover by turning the fixing nut clockwise and don't over tighten.

Part List

No.	Cat. No.	Description	Materials
1	710101-000148	Gauge port nut (single unit)	RPP
2	770104-000045	Gauge port seal (single unit)	EPDM
3	710101-000845	Filter body (BSP)	RPA
	710101-000848	Filter body (NPT)	RPA
4	710101-000854	Filter adaptor ring	RPA
5	710101-000131	Element retaining ring	PBT
6	700101-*****	Disc set	PP / PE
7	710101-000069	Spine	RPA
8	770101-000012	O-ring 90x4	NR
9	760107-000005	Compression spring	SS
10	710101-000048	Filter cover	RPA
11	710101-000849	Fixing nut	RPA
12	730104-000006	¼" ball valve	BRASS
13	700101-*****	Filter element	PP / PE
14	710101-000853	1"-1½" Filter wrench	RPA
15	700190-000070	Filter body complex BSP	
	700190-000071	Filter body complex NPT	

Materials:

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



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2. This warranty is enforceable for a period of 12 months after the date Bill of Lading or equivalent (the “**Warranty Period**”).
3. In the event that during the Warranty Period the Distributor discovers a defect in material and/or workmanship in any Product or part (the “**Defective Product**”), it shall submit a written complaint to Amiad using Amiad's standard customer complaint form. For the receipt of the customer complaint form, the submission of the complaint or any questions please contact your customer service representative.
4. Upon written demand by Amiad the Distributor shall return the Defective Products – or a sample thereof – to Amiad, at Amiad's cost. If the customer ships any such Product, Amiad suggests the customer package it securely and insure it for value, as Amiad assumes no liability for any loss or damage occurring during shipment. Provided however that in the event Amiad determines that the warranty does not apply to such Product, Distributor shall promptly reimburse Amiad for such cost (including freight and customs). Any returned Product or part must be accompanied by the warranty certificate and the purchase invoice. It is clarified that the Distributor may not return the Defective Product unless such return was coordinate and approved by Amiad in advance.
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 - (ii) Fault, abuse or negligence of the customer;
 - (iii) Customer's responsibilities, including the failure of the intake water to meet the agreed standards, as set forth in a written document, approved by Amiad or improper storage.
 - (iv) Improper or unauthorized use of the Product or related parts by the customer, including the customer's failure to operate the Product in conformity with the recommendations and instructions of Amiad, as set forth in Amiad's manuals and other written materials, the operation of the Product other than by a trained and qualified operator, or improper installation of the Product by a third party not authorized by Amiad;
 - (v) Performance by the customer of maintenance and other services other than by a trained and qualified advanced operator, or other than in conformity with the recommendations and instructions of Amiad, or other than in accordance with procedures defined in the literature supplied for Products;
 - (vi) Any alteration, modification foreign attachment to or repair of the Products, other than by Amiad or its authorized technical representatives.
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