

### General instructions:

This filter is designed and manufactured to meet the highest standards of quality and workmanship. This filter is often used as a safety feature of an installation, as well as a control filter, pre-filter, and post-filter. The compressed plastic discs combine the advantages of screen filtration and deep filtration.

### Installation:

The filters can be installed horizontally as well as vertically. Use Teflon tape on threaded connections. Only use the spanner supplied to loosen the cover (1" and 1½"). Do not use a spanner to fit the cover.

The water inlet and outlet are clearly indicated by arrows.

Allow sufficient room to remove the filter cover and the filter element. When installing more than one filter, allow enough room between the units for easy maintenance. A pressure relief valve must be installed upstream of the filtering installation if the pressure is not sufficiently under control.

### Operation:

Normal operating conditions are achieved when the differential pressure across the clean filter element is less than 0.4 bar.

When the differential pressure exceeds 0.4 bar, either the filter is partially soiled or it has to process too large a water flow.

The maximum pressure is up to 10 bar (2" up to 12 bar).

Check the differential pressure across the filter during operation.

**Do not open the filter when it is under pressure. Do not tighten the nut when the filter is under pressure.**

### Maintenance:

Regularly check the pressure loss across the filter. Every year, apply a layer of non-corrosive grease on the rubber parts.

### Periodic cleaning:

It is recommended to clean the filter and inspect the filter element every 2 weeks or when the differential pressure reaches 1 bar or more. Stop the flow to the filter.

Open a drain valve to release pressure and drain water. Carefully remove the filter basket and open the disc packet (2" filter).

Open the 2" disc pack by loosening the clamp nut holding the pack tightly together.

Thoroughly clean the filter element by holding it under running water. In order to rinse away the dirt between the discs, they should be loose. If calcium has scaled on the discs, dip them into an acid solution. Wait a few minutes for the solution to have its effect, and then thoroughly clean the discs.

Make sure no dirty water enters the system.

### Assembly:

Make sure the filter element is intact, clean, and undamaged. Check whether the stainless steel spring is in the right place in the filter cover (¾"-1½"). Place the filter element and close the disc pack. Place the filter cover and tighten it snugly (¾" filter), or secure it with the nut around the filter cover (1" and 1½" filters), or with the clamp (2" filters).

Gradually open the valve before the filter and check for leaks.

### Replacing the discs:

The filter discs are fitted onto a holder. During filtration, these discs are compressed by a spring (¾"-1½") or a clamp nut (2"). Even when they are in the opened state, the discs cannot be removed from the holder. However, they can be easily cleaned under running water. In case of defective or worn discs, they must be replaced. Remove the locking ring (¾"-1½") or cap screw (2") from the holder in order to remove the discs. Place a new set of discs onto the holder, ensuring the number of discs or the pack length is correct, and fit the locking ring or cap screw. Install the filter pack as described for the assembly.

### Notes:

Each filter comes with this manual which includes the installation, operating, and maintenance instructions.

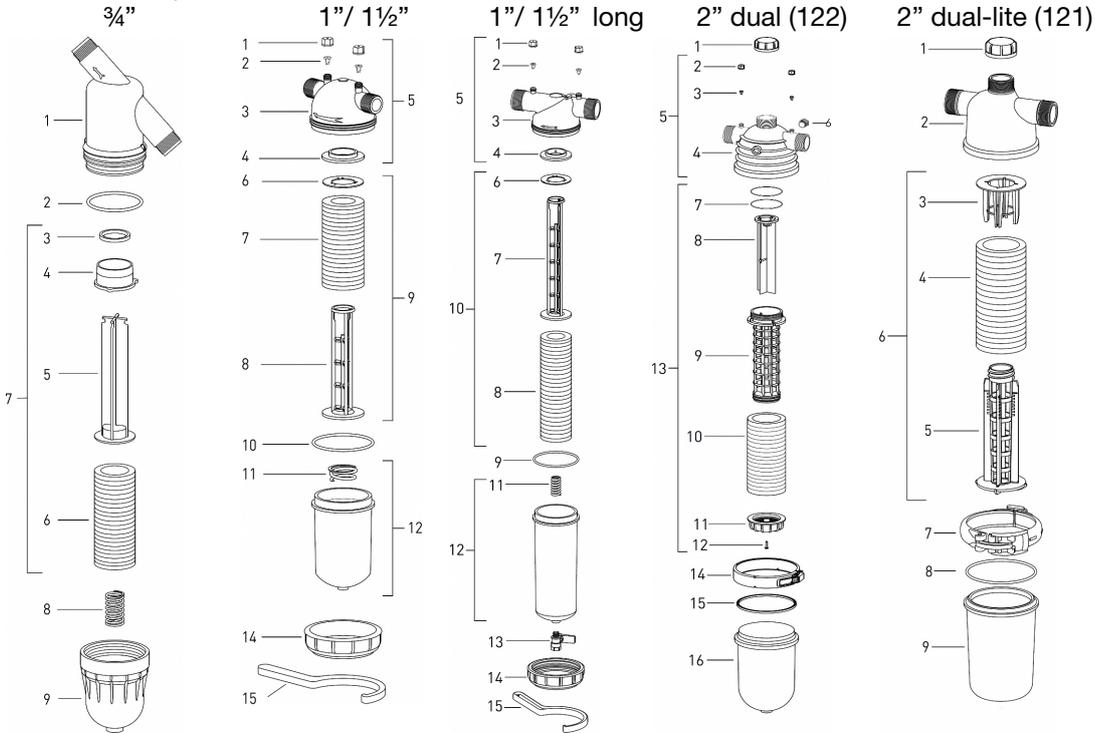
In view of on-going improvements, we reserve the right to change specifications at any time without prior notice.



# Manual

## Plastic disc filters

**Parts drawing:**



Head loss 3/4" 7U107D		m <sup>3</sup> /h			
color	microns	1	2	3	4
blue	400	0,3	1,0	2,2	4,0
yellow	200	0,3	1,1	2,3	4,0
red	130	0,3	1,1	2,5	4,3
black	100	0,4	1,3	2,7	4,6
Head loss 1" 7U110D		m <sup>3</sup> /h			
color	microns	2	4	5	6
blue	400	0,3	1,3	2,1	3,2
yellow	200	0,3	1,4	2,2	3,2
red	130	0,3	1,4	2,2	3,2
black	100	0,5	1,7	2,9	3,9
green	55	0,8	2,6	3,9	5,2
Head loss 1" 7U111D long		m <sup>3</sup> /h			
color	microns	2	4	6	8
blue	400	0,1	0,4	0,8	1,4
yellow	200	0,1	0,4	0,8	1,4
red	130	0,2	0,6	1,1	1,9
black	100	0,2	0,6	1,1	1,9
green	55	0,3	0,8	1,4	2,4

Head loss 1 1/2" 7U115D		m <sup>3</sup> /h				
color	microns	2	4	6	8	10
blue	400	0,1	0,3	0,7	1,3	1,9
yellow	200	0,1	0,4	0,9	1,5	2,2
red	130	0,1	0,4	0,9	1,5	2,2
black	100	0,2	0,6	1,2	1,8	2,6
green	55	0,7	1,7	2,8	3,9	5,2
Head loss 1 1/2" 7U117D long		m <sup>3</sup> /h				
color	microns	2	5	8	10	12
blue	400	0,1	0,6	1,4	2,1	3,0
yellow	200	0,1	0,6	1,4	2,1	3,0
red	130	0,1	0,8	1,8	2,7	3,9
black	100	0,2	1,4	3,0	4,1	5,8
green	55	0,5	1,7	3,4	4,6	6,0
Head loss 2" 7U122D / 121D		m <sup>3</sup> /h				
color	microns	5	10	15	20	25
blue	400	0,2	0,6	1,3	2,1	3,3
yellow	200	0,2	0,7	1,3	2,3	3,5
red	130	0,2	0,7	1,5	2,4	3,6
black	100	0,2	0,8	1,6	2,6	3,9
green	55	0,5	1,3	2,4	4,0	5,3
grey	20	2,0	4,4	6,9	n/a	n/a