

Plastic Disc Filters



Advantages of disc filters:

The filter element composed of loose plastic discs is very easy to clean. When taking off the pack, adhering parts of dirt can be rinsed off under running water. The grooves are provided crosswise in the discs, thus enabling deep filtration. The filtrate can therefore be compared with the results of sand-bed filtration.

Advantages of UDI plastic disc filters:

UDI plastic disc filters have a robust design.

The compressed plastic discs constitute a solid and strong filter element which is also resistant to high differential pressures. The filters are entirely made of plastic and are resistant to fertiliser-enriched feed water. The disc set is compressed by a stainless steel spring in the filter cover ($\frac{3}{4}$ " - 1 $\frac{1}{2}$ ").

The disc filters feature a colour code and are available in 6 filtration grades:

- $\frac{3}{4}$ " : 400 - 300 - 200 and 100 microns
- 1" and 1 $\frac{1}{2}$ " : 400 - 300 - 200 - 100 and 55 microns
- 2" : 400 - 300 - 200 - 100 - 55 - 20 and 10 microns

The disc filters are available in 6 filter perforations, with a colour coding. The ring pack is simple to remove. The filter can easily be opened manually, by:

- unscrewing the filter cover ($\frac{3}{4}$ ").
- loosening a nut which holds the filter cover on the filter body (1" and 1 $\frac{1}{2}$ ").
- opening a clamp that holds the filter components clamped together (2").

Applications:

UDI plastic disc filters are often used as a safety feature of an installation. They are also used as pre-filters for water intake, as fine filters during the re-use of circulation water, and as post-filters.



Subject to modifications.
No liability accepted for errors or misprints

UDI[®] Plastic Disc Filters

Technical Data

filters

Materials:

UDI plastic disc filters series 3/4":

- Filter body and cover: polyester
- Discs and core: polypropylene
- Spring: stainless steel
- O-ring: NITRILE rubber

UDI plastic disc filters series 1" and 1 1/2":

- Filter body, cover: reinforced polyamide
option: polypropylene (chemically resistant)
- Core: reinforced polypropylene
- Discs: polypropylene
- Spring: stainless steel
- O-ring: NITRILE rubber

UDI plastic disc filter series 2" Dual:

- Filter body, cover: reinforced polyamide
- Core: reinforced polypropylene
- Discs: polypropylene / option: nylon
- Clamp and screw: stainless steel
- O-ring + seals: EPDM

UDI plastic disc filter serie 2" Dual Lite:

- Filter body, cover: polypropylene
- Core: reinforced polypropylene
- Discs: polypropylene / option: nylon
- Clamp and 2" cap: reinforced polyamide
- O-ring + seals: EPDM

Type	Unit	7U107D	7U110D	7U111D (super)	7U115D	7U117D (super)	7U122D	7U121D (lite)
Connection (BSP male)	inch	3/4"	1"	1"	1 1/2"	1 1/2"	2"	2"
Nom diameter	mm	20	25	25	40	40	50	50
Max pressure	bar	10	10	10	10	10	10	8
Max capacity ¹⁾	m ³ /h	4	6	8	8	12	25	25
Filter area	cm ²	160	316	501	316	500	950	950
Filter capacity	cm ³	95	379	600	379	600	1225	1225
Length of filter element	mm	114	139	228	139	228	261	261
External diameter of discs	mm	45	70	70	70	70	115	115
Overall length (A)	mm	150	158	158	200	200	130 / 260	130 / 260
Length (L)	mm	144	233	340	250	350	465	416
Width (W)	mm	74	130	130	130	130	200	200
Max temperature ²⁾	°C	60	70	70	70	70	70	60
pH resistance ³⁾	pH	3 - 12	5-11 / 2-13	5-11 / 2-13	5-11 / 2-13	5-11 / 2-13	5 - 11	2 -13
Weight	kg	0,37	1,1	1,4	1,3	1,5	5	3

1) Maximum capacity related to 200 microns or larger

1) Working pressure and resistance decrease at temperatures over 20°C

2) pH 2-13 for 1" and 1 1/2" only for chemically resistant versions.

