

# Sediment Filters



Sediment filters are used for treating cloudy, dirty or highly turbid waters. The particles are trapped within the media and the clear water passes through. Turbid water contains organic compounds, clays, metals such as iron and manganese.



## Sediment filters

Sediment filters are needed when the water supply is cloudy or turbid. The particles in the water will block plumbing systems, leave unsightly staining, may contain toxic chemicals or bacteria. The easiest way to remove the particles is by passing the water through a media where the particles get stuck and allowing clear water to flow through. The particles can be periodically 'backwashed' away to drain.

## Sand

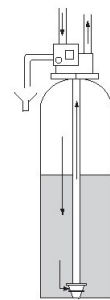
Sand is the cheapest media. The grade of sand is tightly controlled so only highest quality, triple washed 0.5 to 1.0mm size water treatment grade sand is used. The water passes through the sand and any particulates get trapped by the sand.

## Filter Ag

Filter Ag has a more irregular surface than sand providing a higher surface area and complex flow path for a more efficient removal of suspended matter. This can lead to savings over traditional filter materials as the equipment can be smaller. Filter Ag is also lighter in weight which reduces backwash flow rate. Filter Ag is slightly more expensive than sand and must be soaked for 24 hours before use.

## How does it work?

Water flows into the valve at the top, down through the media and then up through the 'riser' tube in the middle of the vessel. As the water travels through the media the particles are trapped by the media. Any iron or manganese contaminants in the water will also drop out of solution and are trapped in the vessel. There are timer options that can be set to automatically self clean (backwash) and wash away any of the accumulated particulates.



## Sand Filter Units with auto back- washing filter valve

Kit Number	20.0451	20.0452	20.0453	20.0454	20.0455	20.0456	20.0429	20.0430	20.0431	20.0432
Vessel size	<b>C1054</b>	<b>C1248</b>	<b>C1354</b>	<b>C1465</b>	<b>C1665</b>	<b>C1865</b>	<b>C2160</b>	<b>C2469</b>	<b>C3072</b>	<b>C3672</b>
Valve Type	263-740	263-740	263-740	263-740	273-742	273-742	Mag 942	Mag 942	Mag 942	Mag 942
Service flow rate - m3/hr	0.6	0.9	1.0	1.2	1.6	2.0	2.7	3.6	5.6	8.0
Backwash flow rate m3/hr	1.1	1.8	2.0	2.3	3.4	4.6	6.8	9.0	11.4	17.1
Inlet & outlet connections	1"	1"	1"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Drain connection	3/4" hose con.	3/4" hose con.	3/4" hose con.	3/4" hose con.	1" hose con	1" hose con	1 1/2"	1 1/2"	1 1/2"	1 1/2"

All units contain sand. Filter Ag or mixed sand/filter sand can be supplied. Please specify at time of order.

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**Map and Directions to Prosep Filters Limited**



Leave M62 at Junction 24.

At roundabout adjacent to Cedar Court Hotel take 2nd exit onto dual carriageway (A629), signposted Halifax.

Take 1st exit slip road.

At roundabout at end of sliproad, take 3rd exit off.

This is the entrance to Lowfields Business Park.

Proceed straight over 1st roundabout.

At next roundabout take 2nd exit onto River Bank Way - Prosep Filters can be found on the left after the S-bend.

[Link to Google Maps](#)