

# FLOWRITE



## SL SERIES FILTERS HOUSING

**Multi Cartridge housing for high  
flow rates - multiple cartridges  
multiple lengths**

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Flowrite distribute a complete multi cartridge filter housing range the SL range, which caters for higher flow rate requirements starting from a 6 cartridge configurations up to 180.

Options include 304L or 316L stainless steel with swing bolt closure. The units are fabricated to the requirements of the client.

Inlet and outlet configurations will depend on flowrate for the required application

### Benefits

- Multiple Cartridges for increased filtration
- Designed for industrial and commercial filtration needs
- Heavy duty construction for durability, 304SS standard with 316SS or Mild Steel options available.
- Pipe fittings readily accessible for easy installation
- Knife edge seal at both cartridge ends to eliminate by-pass
- Standard housings accept double-open-end cartridges
- Optionally accepts 222 or 226 cartridge variations

The SL housings are available as coded vessels or non-coded. All vessels are manufactured under strict quality control procedures. The Flowrite SL range covers cartridge lengths from 10" to 40" units.

### Flow rates

The following table shows the maximum flow rates for the different housing sizes the measurements are meant as a base only. When selecting a housing considerations must be given to flow rates of selected cartridges.

<i>Housing</i>	<i>Flange Size</i>	<i>Flow rate Litres/Min Water</i>	<i>Flow rate Litres/Min Water 30 cSt @37.8°C</i>	<i>Flow rate Litres/Min Water 70 cSt @37.8°C</i>	<i>Flow rate Litres/Min Water 140 cSt @37.8°C</i>	<i>Flow rate Litres/Min Water 220 cSt @37.8°C</i>
6SL SERIES	2"	409	370	330	291	252
12SL SERIES	3"	894	817	719	622	486
19SL SERIES	4"	1556	1400	1244	1089	933
27SL SERIES	4"	1556	1439	1283	1167	1011
51 SL SERIES	6"	3501	3112	2800	2411	2139
80 SL SERIES	8"	6224	5446	4862	4279	3695

MAXIMUM RECOMMENDED FLOW RATES

# SL Series Housing specifications

## Housing Design

- Pressure / Temp. Rated 1000 kPa working pressure at 60°C

## Housing Spares

- Cover gasket 10mm diameter Neoprene "O" ring,
- Spring & Caps

## Operating

1. When filling the vessel on start-up or after cartridge replacement, allow the water to fill the unit from the line at a slow rate, throttling with the line valves, with the cover bolts only partially tightened. As soon as the vessel is full, tighten the cover bolting. Only then, allow the line valves to be opened fully.
2. Check that the cover joint is tight, and that there are no leaks.
3. Check the differential pressure across the unit periodically while in service, by subtracting the pressure showing on the discharge gauge from that shown on the inlet gauge (or direct reading of the differential pressure gauge if this is fitted). When this value reaches a maximum of 240 kPa, the cartridges need to be replaced.
4. To replace cartridges, close the inlet and outlet valves. Carefully open the drain valves to release pressure, and drain vessel. Once pressure is released, the cover bolts can be slacked to speed up draining. Remove the cover by removing the bolts, and lifting the cover. Carefully clean and store the spring and cap assemblies for later re-use when the new cartridges are fitted. Draw the cartridges out vertically, leaving the cartridge centring posts in place.
5. Insert new cartridges, by placing them over the cartridge centring posts. Insert a spring and cap assembly into the top of each cartridge, making sure that all the cartridges are standing vertical, at the same height, and that all spring and cap assemblies are firmly in place.
6. Replace the cover, partially tighten the cover bolts, and close the drain valves. The unit is now ready to go back into service as set out above
7. A light smear of "Copperslip" or equivalent should be used on each bolt to permit easy disassembly at the next cartridge replacement.

## Maintenance

1. Units of this inherently robust and simple nature need no maintenance other than replacement of the cover gasket when it shows signs of deterioration.
2. Should any spring and cap assemblies be lost or damaged, they can be replaced. However, reasonable care when changing the cartridges will ensure that this should never be necessary.
3. Use only the correct Flowrite filter cartridges as replacements. Use of any other type will lead to poor edge sealing, bypass, shortened cartridge life, and reduced filtration efficiency.