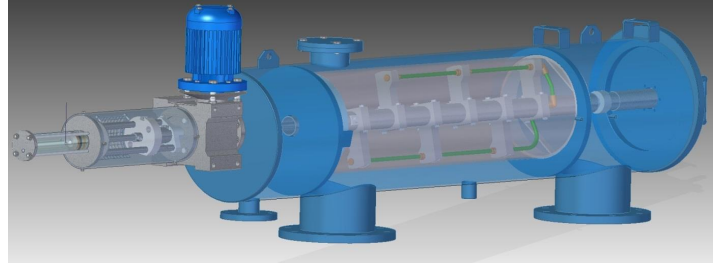


# MSCF HIGH DIRT LOAD LIQUID FILTER

Motorised continuous Self-Cleaning Filter for high flow rates and high dirt loads



- The only continuous flushing filter operating under line pressure
- High flow rate in a compact design at high dirtload and low differential pressure
- Every 3 seconds complete cleaning of the filter element
- 100% screen cleaning even after millions of flushing cycles
- Wide choice of screen/mesh sizes – down to 35 micron
- Can operate at low working pressure and gives constant flow
- Hydraulic/electric drive
- Easy to install
- Worldwide patents
- Short pay-back period

### How does the MSCF operate:

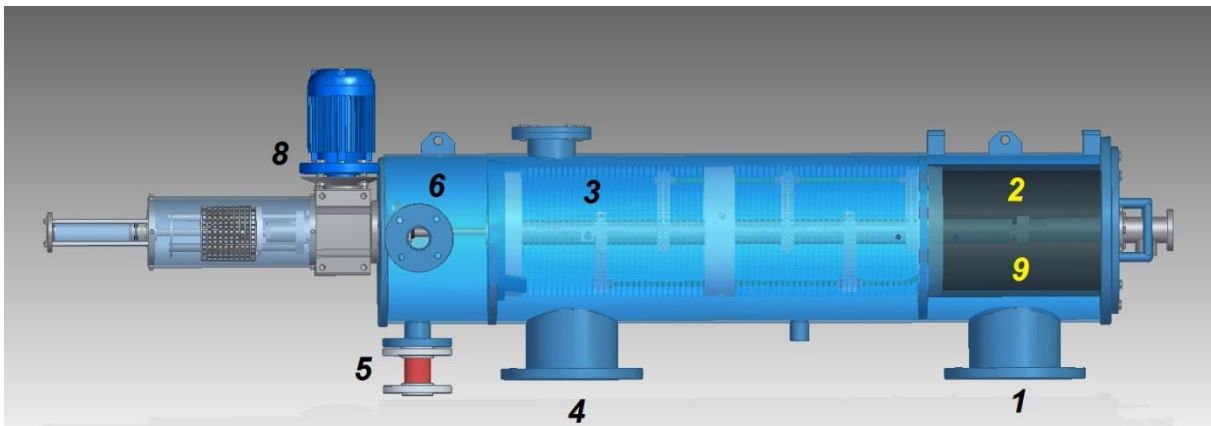
At the inlet (1) the water flows through the coarse screen (2) where large particles are stopped. At high dirt loads the coarse filter should be automatic (see ACF). Fine particles are trapped on fine screen (3) and filtered water flows to outlet (4)

In the constant flush mode, the drain chamber (6) is constantly open to the atmosphere through valve (5) which continuously drains a small flow. This forces a continuous back flush stream from the fine screen through back flush nozzles, collector pipe and drain chamber to atmosphere.

The booster pump (not shown) delivers filtered water to the hollow shaft of the collector pipe and into spray nozzles (9), jetting onto the screen. The combination of back flush and jet streams creates an efficient cleaning effect that ensures 100% cleaning of both sides of the screen.

Electric motor (8) rotates the collector pipe and nozzles while the hydraulic piston moves it back-and-forwards. Combined with the rotation effect, this ensures that back flush jet streams sweep and cover the total screen area.

At the time triggered mode, the back flush mechanism operates at triggered intervals.

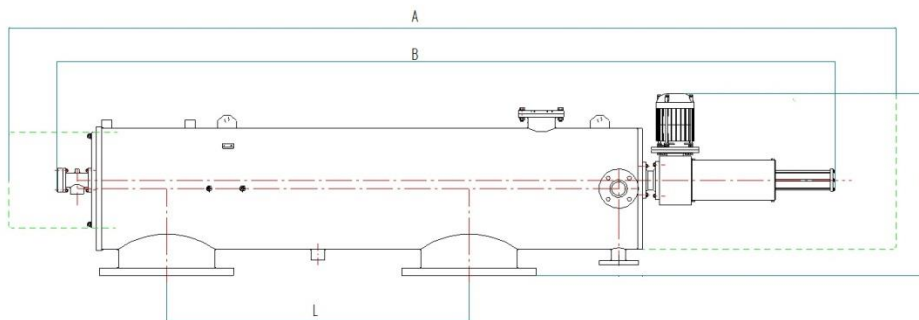


The MSCF is ideal for a wide range of applications:

- Sewage water for irrigation
- Drinking water – removal of algae, zooplankton and worms
- Pre-filtration of sand filters
- Drip irrigation – high flow high dirt loads
- Intake cooling water – protection from mussels and removal of sand, etc.
- Steel industry – fine filtration of scale
- Seawater – protection from mussels and sand. Eliminates the need for chlorination
- Sugar industry – thin, thick juice filtration; raw juice filtration, heat exchanger protection
- Paper industry – white water
- Plastic industry – product reclamation, cooling water
- Golf course – removal of algae that spoils the color of the turf

Technical data:

- Operating pressure :1,2-10 bar
- Filter screens :50, 80, 100, 120, 150, 200, 400 micron  
*Other elements can be specified.*
- Flush water 5-10% of main flow depending on:
  - Operating pressure
  - Micron size
  - Dirt load
- Design pressure :10 bar
- Max operating temperature :65°C
- Inlet/outlet flanges :DN-PN10
- Drain line connection :Flanged 2xDN50 or 1xDN65



Model	Capacity m <sup>3</sup> /u	Screen area cm <sup>2</sup>	L mm	A mm	B mm	H mm	ØC	ØD	Weight empty kg	Weight full kg
MSCF04	0-120	1784	450	2900	1713	600	DN100	DN100	145	195
MSCF04L	0-120	3568	600	3275	1990	624	DN100	DN100	165	230
MSCF04XL	0-120	8035	1067	4770	2745	708	DN100	DN100	285	550
MSCF06	0-250	3568	600	3275	1990	660	DN150	DN150	220	310
MSCF06L	0-250	8035	1067	3770	2745	708	DN150	DN150	300	550
MSCF06X	0-250	11934	1067	5600	3170	705	DN150	DN150	300	570
MSCF08	0-375	8035	1067	4770	2745	755	DN200	DN200	300	550
MSCF08L	0-375	11934	1067	5600	3170	755	DN200	DN200	300	580
MSCF010	0-500	8035	1067	4800	2745	755	DN250	DN250	310	590
MSCF010L	0-500	11934	1067	5600	3170	755	DN250	DN250	360	600
MSCF012	0-750	11934	1067	5600	3172	755	DN300	DN300	370	610
MSCF016	0-1000	11934	1270	5600	3270	800	DN400	DN400	420	900

