



# FILIX

HIGH-PERFORMANCE  
FILTERS  
FOR ALL THINGS HYDRO

FILIX is automatic self-cleaning and built for filtration of water, sea water and process fluids. Our filters are robust and have great operational track records from various applications. The filter casing is of Duplex 2205, ensuring excellent corrosion resistance and weight savings. The filter screen comes in different qualities dependent on application - 316L is standard. FILIX standard filters are available with filtration grades ranging from 20 till 300 µm and dimensions from DN80 to DN700. Other dimensions and grades are available upon request.

The FILIX family of filters comprises single screen and multi-screen models, all utilising the difference between internal pressure and the pressure in the back-flush line (ideally atmospheric) for self-cleaning. A cleaning cycle is initiated when the pressure across the filter screen reaches a pre-set value during which a number of cleaning nozzles are rotated in a spiral covering the entire filter screen area. The duration of a cleaning cycle is 1 minute. The flow required for cleaning is approximately 10 % of that of nominal flow. The nozzles are designed to ensure high hydraulic efficiency as well as resistance against clogging.

In addition to filters, Sea-Lix supplies turbines for pressure control and regeneration of surplus pressures to electric energy, off-grid electrification and industrial IoT-services for monitoring, control and optimization.

## HIGHLIGHTS

- ▶ Corrosion resistant
- ▶ Energy efficient
- ▶ Extremely compact
- ▶ Minimal head loss
- ▶ Great track-record



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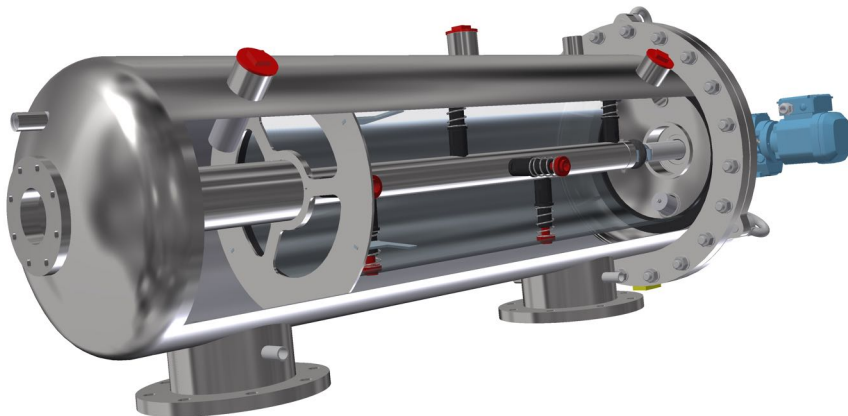


## TECHNICAL SPECIFICATIONS

MANUFACTURER	Sea-Lix AS
FILTER TYPE	Automatic self-cleaning
APPLICATIONS	Water, sea water, process fluids
FILTRATION GRADES	150 / 100 / 50 / 40 / 30 µm
TEMPERATURE RANGE	0 - 50 °C
OPERATIONAL PRESSURE	1.6 - 6.9 bars / recommended: 2 - 6 bars
MINIMUM OPERATIONAL PRESSURE	1.6 bars
MAXIMUM OPERATIONAL PRESSURE	6.9 bars
HEAD LOSS, CLEAN FILTER	< 0.1 bar
DIFFERENTIAL PRESSURE DURING CLEANING CYCLE	0.3 - 0.5 bars (adjustable in the PLC)
VOLUMETRIC FLOW DURING CLEANING	30 - 35 m <sup>3</sup> /h per m <sup>2</sup> filter area
DURATION, CLEANING CYCLE	60 sec.
MOTOR(S)	0.37 kW, 440 V, 50 / 60Hz (per filter element)
SUITABLE FOR	Safe atmospheres / EX-zone ( 0 / 1 / 2 )

## MATERIALS

FILTER CASING	Duplex 2205
FLANGES / INTERSECTION	316L
FILTER ELEMENT	316L (standard) / 904L (optional)



## SINGLE SCREEN

Model	Capacity (l./ sek.) v.s. filtration grade (mm)*					Flanges (DN) Connection	Flanges (DN) flushing	Weight (net.) kg	Voltage VAC	Power kW
	150 µm	100 µm	50 µm	40 µm	30 µm					
	FILIX SL 0.3	32	28	20	19	17	80	80	150	400-480
FILIX SL 0.4	56	49	36	34	29	100	80	177	400-480	0.37
FILIX SL 0.6	80	70	51	48	42	150	80	187	400-480	0.37
FILIX SL 1.0	115	102	74	69	61	200	80	240	400-480	0.37
FILIX SL 1.2	135	119	86	81	71	200	80	245	400-480	0.37
FILIX SL 1.4	155	137	99	93	81	200	80	250	400-480	0.37
FILIX SL 1.7	194	172	124	117	102	250	80	260	400-480	0.37
FILIX SL 2.0	234	206	150	140	123	250	80	270	400-480	0.37
FILIX SL 2.3	273	241	175	164	144	250	80	280	400-480	0.37
FILIX SL 3.0	307	271	197	184	161	300	80	430	400-480	0.37
FILIX SL 3.5	386	341	247	232	203	350	80	450	400-480	0.37
FILIX SL 4.0	464	410	297	279	244	350	100	480	400-480	0.37
FILIX SL 4.5	543	479	347	326	285	350	100	500	400-480	0.37
FILIX SL 5.4	621	548	398	373	326	400	125	605	400-480	0.37
FILIX SL 6.0	700	618	448	420	367	400	125	660	400-480	0.37

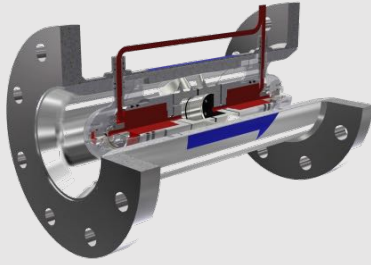
## MULTI SCREEN

Modell	Capacity (l./ sek.) v.s. filtration grade (mm)*					Flanges (DN) Connection	Flanges (DN) flushing	Weight (net.) kg	Voltage VAC	Power kW
	150 µm	100 µm	50 µm	40 µm	30 µm					
	FILIX SL 7.0	808	713	517	485	424	500	100	1360	400-480
FILIX SL 8.0	928	819	594	557	487	500	100	1480	400-480	3 x 0.37
FILIX SL 9.0	1037	915	663	622	544	500	100	1620	400-480	3 x 0.37
FILIX SL 10.0	1149	1014	735	689	603	600	100	2020	400-480	4 x 0.37
FILIX SL 12	1382	1219	884	829	726	600	100	2310	400-480	4 x 0.37
FILIX SL 14	1616	1426	1034	969	848	700	100	2600	400-480	4 x 0.37
FILIX SL 16	1902	1679	1218	1141	999	750	125	2890	400-480	4 x 0.37
FILIX SL 18	2143	1891	1371	1286	1125	800	125	3180	400-480	4 x 0.37

\*other filtration grades are available upon request

## OTHER SEA-LIX PRODUCTS

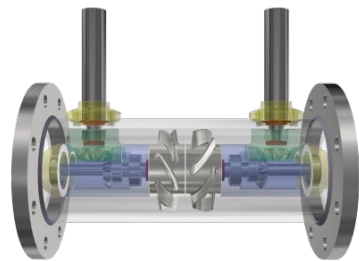
### POGMO



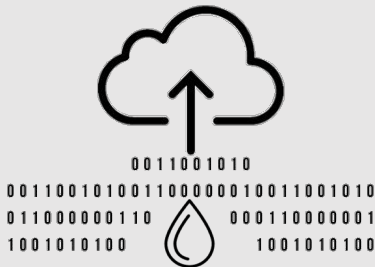
**POGMO by Sea-Lix is a game-changing turbine that provides off-grid power to Smart Water Networks.** The smaller POGMOs produce enough power to feed monitoring equipment, while the larger POGMOs are designed for heavier tasks like valve actuators.

**POPCO - advanced turbine capable of delivering desired downstream pressure whilst extracting energy from available surplus pressure** – offers dynamic pressure management preventing pipe bursts and significant reductions in leakage rates.

### POPCO



### SUDA



**Data is the cornerstone of Smart Water technologies.**

Our Smart Utility Data - SUDA – is an open, cloud-based IoT-platform that enables you to connect all physical infrastructure to the digital universe. SUDA can run both POGMO- and POPCO-installations, as well as any other Smart water component.

**Small hydro has historically derived from scaling down conventional large and well established hydro power solutions.**

Sea-lix has approached the challenge from the core – designing a cost-effective solution purposely for smaller hydro-schemes. G-LIX is available as PLUG N' PLAY power stations integrated in standard containers to your specification.

### G-LIX

