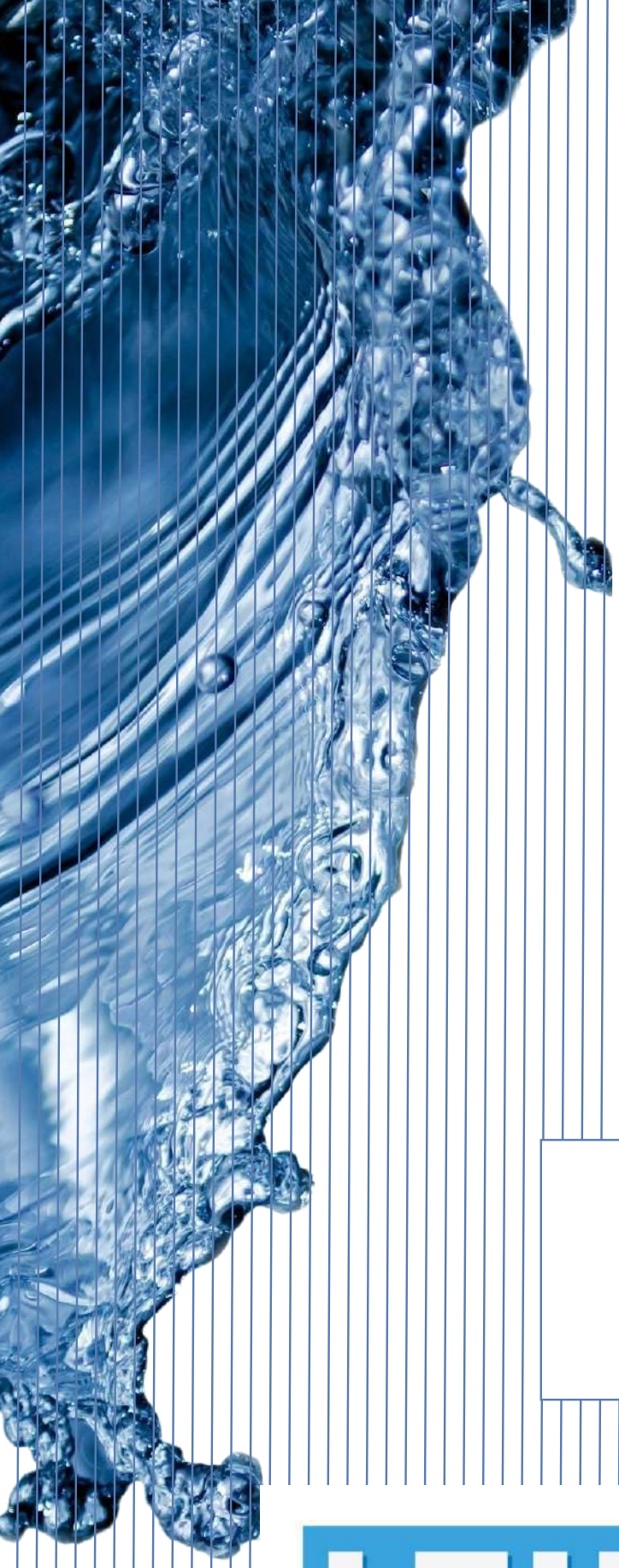


STAUFF

Filters

Offline and Bypass filters

OLSW

LTH

HYDRAULIC
COMPONENTS
& FLUID CONTAMINATION
CONTROL

Water Absorbing Offline Filter ▪ Type OLSW

Product Description

STAUFF Systems Units are characterized by their extremely efficient filter elements which are rated to 5 micron. Specially designed for industrial hydraulic installations the STAUFF Offline Filters are available in single or double length configurations. The Offline Filter Units can easily be mounted to new and existing hydraulic installations. By means of an integrated motor/pump unit and an Offline Filter, the oil is pumped from the reservoir through the filter unit and after filtering the oil is then returned to the tank.

Economical

The hydraulic market accepts that 80 % of mechanical failures are caused by contamination in the system. The STAUFF Water Absorbing Offline Filters attack this contamination at source and in addition to solid particles, these filters are also capable of removing large quantities of water from the oil. This prevents the catalytic reaction of water and solid particle contamination, resulting in extended useable oil life.

The application of STAUFF Filters results in lower component failure rates, less down time and less system maintenance.

Water Absorbing

STAUFF Water Absorbing Filters are Offline Units that use special water absorbing Spin-On Filter Elements as a pre-filter. The fluid is pumped through the pre-filter which removes most water and larger solid contamination, in the second stage the fluid passes through the STAUFF Micro Filter where final water removal takes place as well as solid removal down to 0,5 micron.

In recent years STAUFF Systems have developed a great deal of experience in cleaning and drying hydraulic and lubrication systems in the following markets:

- Steel industry
- Maritime industry
- Petrochemical industry
- Paper industry

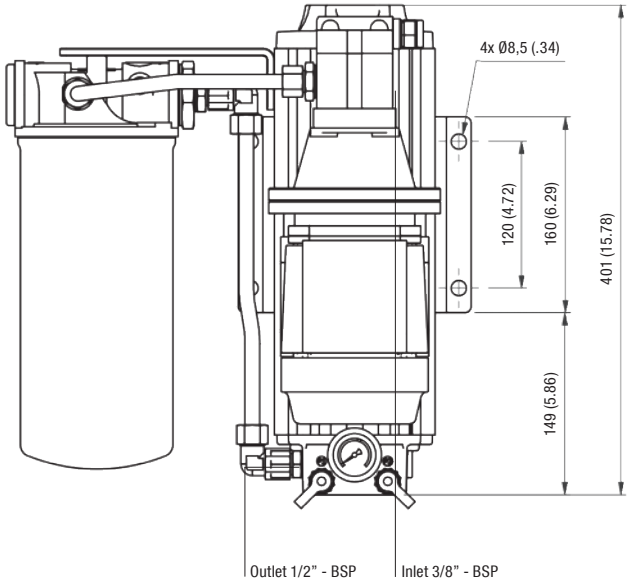
Advantages

- Extremely clean oil due to the high filtration efficiency $ß_{0,5} \geq 200$, $ß_2 \geq 2330$
- Prevention of channel forming by radial filtration direction
- Increased flow capacity
- Increased dirt-hold capacity
- Large water holding capacity
- Compact and easy-maintenance design
- Longer usage life for oil and components

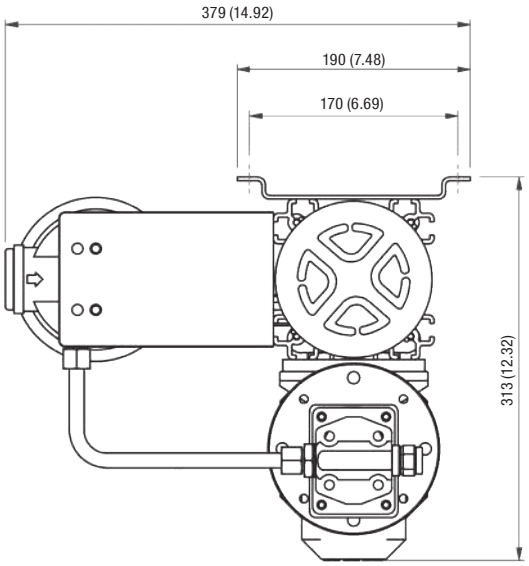
G

Water Absorbing Offline Filter ▪ Type OLSW

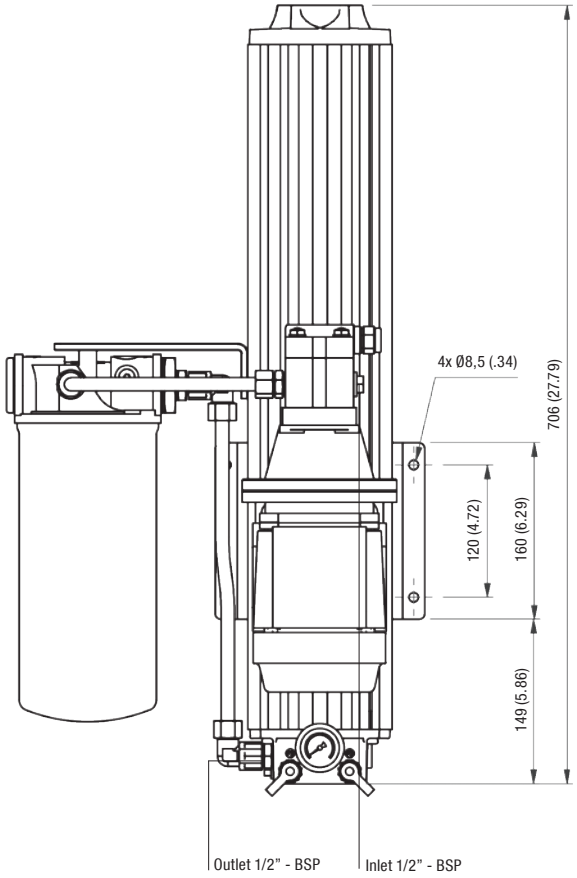
Dimensions OLSW-1-30



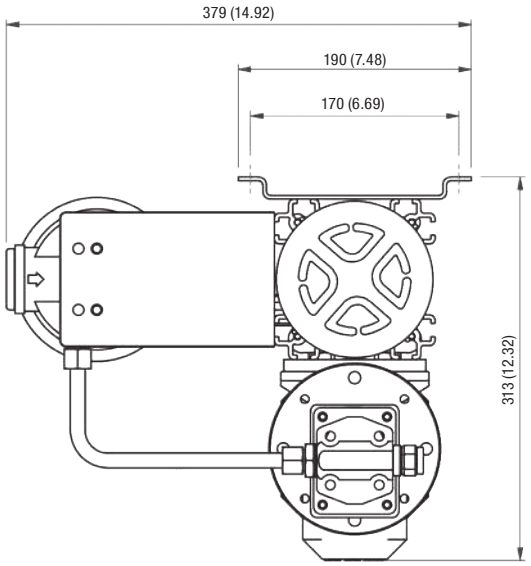
Top View



Dimensions OLSW-1-60



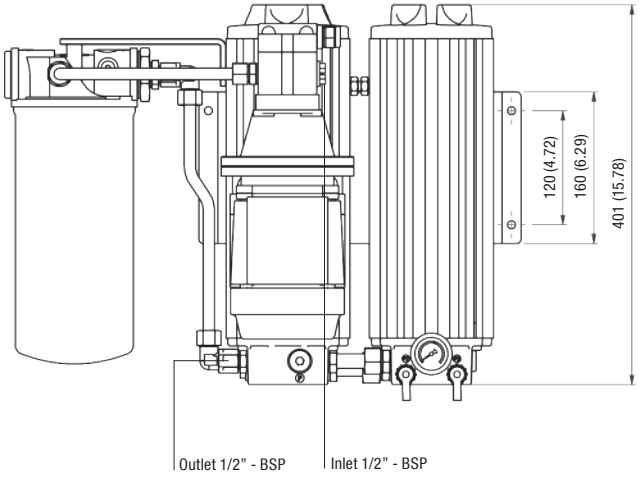
Top View



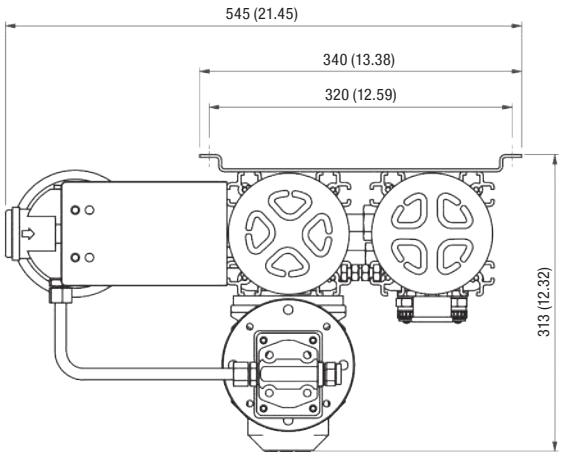
All dimensions in mm / in

Water Absorbing Offline Filter ▪ Type OLSW

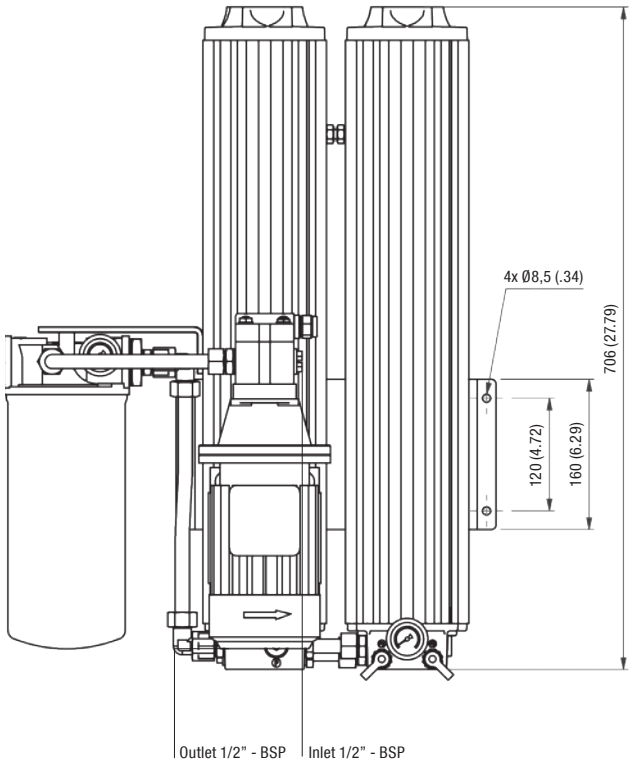
Dimensions OLSW-2-30



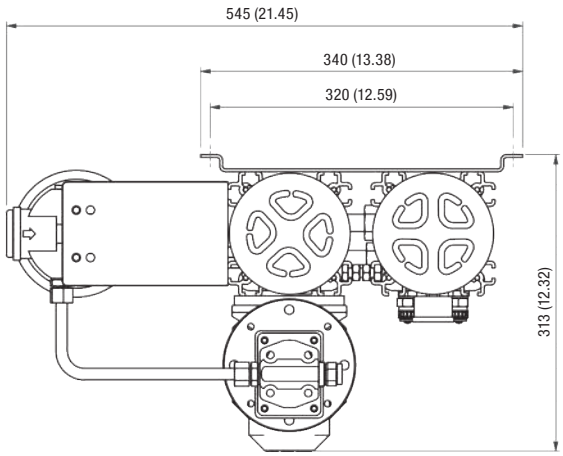
Top View



Dimensions OLSW-2-60



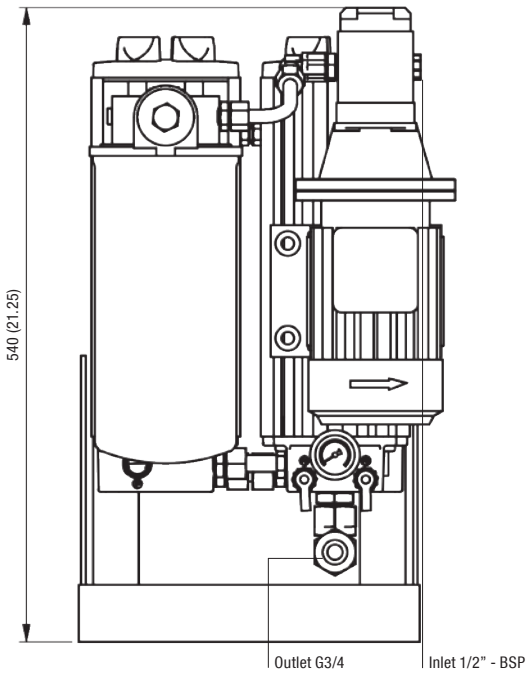
Top View



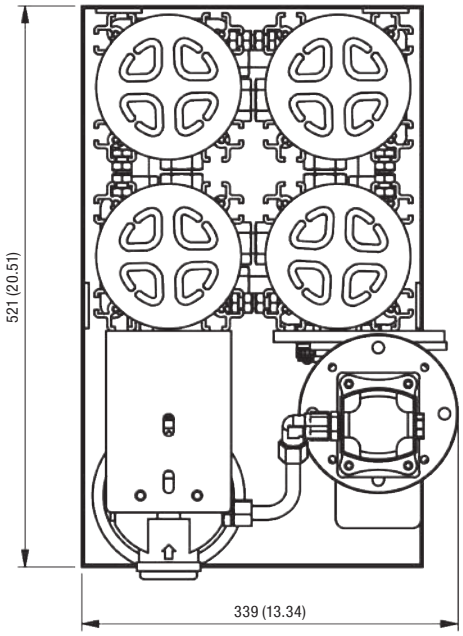
All dimensions in mm / in

Water Absorbing Offline Filter ▪ Type OLSW

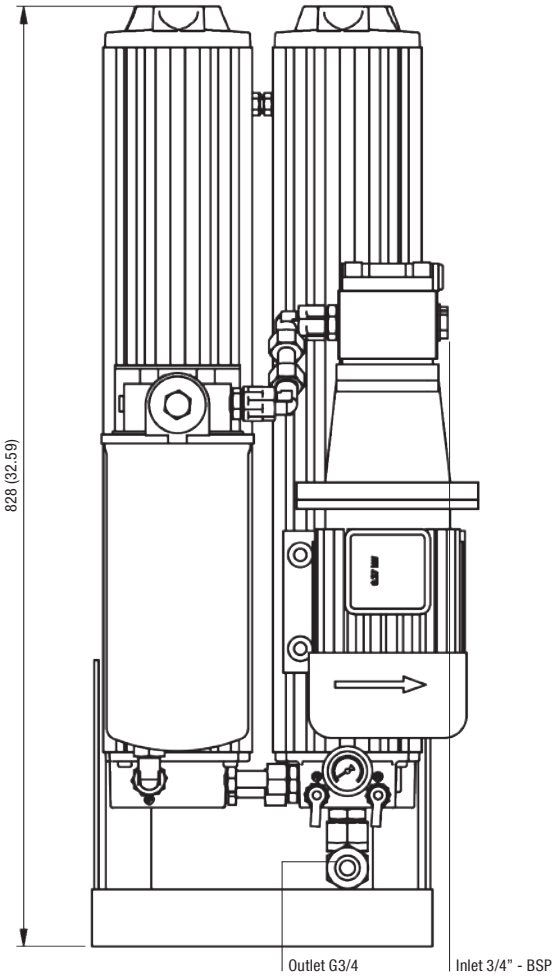
Dimensions OLSW-4-30



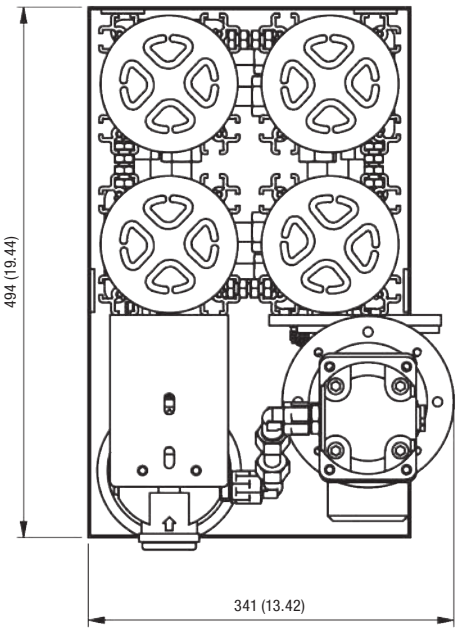
Top View



Dimensions OLSW-4-60



Top View



All dimensions in mm / in

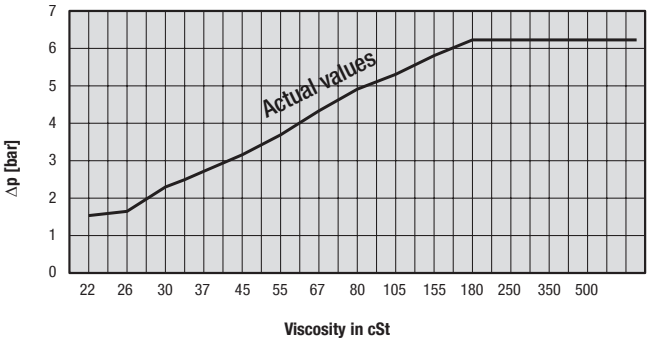
Water Absorbing Offline Filter ▪ Type OLSW

Technical Data OLSW

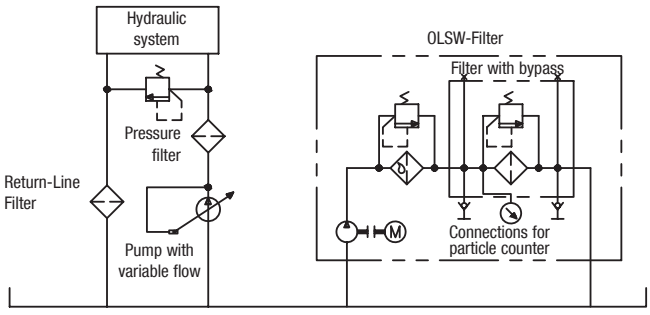
	OLSW-1-30-H-B	OLSW-1-60-H-B	OLSW-2-30-H-B	OLSW-2-60-H-B	OLSW-4-30-H-B	OLSW-4-60-H-B
Number of Filter Housings	1	1	2	2	4	4
Nominal Flow	2,1 l/min	4,2 l/min	4,2 l/min	8,4 l/min	8,4 l/min	16,8 l/min
	.6 US GPM	1.1 US GPM	1.1 US GPM	2.2 US GPM	2.2 US GPM	4.4 US GPM
Max. Differential Pressure	6,2 bar over the filter element without backpressure					
	90 PSI over the filter element without backpressure					
Water Absorbing Capacity	794 ml	1144 ml	1144 ml	1844 ml	1844 ml	3244 ml
	25 oz.	38 oz.	38 oz.	62 oz.	62 oz.	109 oz.
Max. Fluid Temperature	+80 °C					
	+176 °F					
Max. Housing Pressure	20 bar					
	290 PSI					
Viscosity Range	20 ... 160 cSt					
	100 ... 750 SUS					
Connection Suction Side	G3/8	G1/2	G1/2	G1/2	G1/2	G3/4
Connection Return Side	G1/2	G1/2	G1/2	G1/2	G3/4	G3/4
Hose Diameter	1/2 in (inner diameter) flexible hose					3/4 in (inner diameter) flexible hose
Weight (including Element)	18 kg	22 kg	25 kg	34 kg	43 kg	65 kg
	39.7 lbs	48.5 lbs	55. 1 lbs	75.0 lbs	94.8 lbs	143.3 lbs
Max. System Volume	1350 l	2700 l	2700 l	5400 l	5400 l	10800 l
	356 gal	713 gal	713 gal	1427 gal	1427 gal	2853 gal
Dimensions H x B x L	401 x 379 x 313 mm	706 x 379 x 313 mm	401 x 545 x 313 mm	706 x 545 x 313 mm	540 x 339 x 521 mm	928 x 341 x 494 mm
	15.78 x 14.92 x 12.32 in	27.79 x 14.92 x 12.32 in	15.78 x 21.45 x 12.32 in	27.79 x 21.45 x 12.32 in	21.25 x 13.34 x 20.51 in	36.53 x 13.42 x 19.44 in
Pump	Gear pump					
Connection Oil-Analysis: P1 filter inlet side P2 filter outlet side	Test connector (M16 x 2) Red Test connector (M16 x 2) Yellow					

Water absorbing spin-on filter element

Δp / Viscosity for OLSW-Filter



System Example
Schematic Offline Filtration incl. Water Absorption



Water Absorbing Offline Filter Housings / Complete Filters ▪ Type OLSW

OLSW - 1 - 30 - H - B - A - 01 - V - O - A

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

① Type

Offline Filter Unit incl. water absorption (for industrial applications)	OLSW

② Housing Configuration

Single housing	1
Twin housing	2
Quadruple housing	4

③ Filter Element Length

300 mm / 11.81 in	30
600 mm / 23.62 in	60

④ Filter Material and Micron Rating

Material	Micron rating µm	Code
Cellulose (standard)	0,5	H
Inorg. glass fibre and polymer (water absorption)	5	EA

⑤ Sealing Material

NBR (Buna-N®) (standard)	B
FKM (Viton®)	V

⑥ E-motor Options

Motor Type	Code
230/400 V AC, 50 Hz, three phases, 1360 r/min 255/460 V AC, 60 Hz, three phases, 1630 r/min (50 Hz and 60 Hz standard)	A
230 V AC, 50 Hz, single phase, 1360 r/min	G
110 V AC, 50 Hz, single phase	I
110 V AC, 60 Hz, single phase	J

Note: Special motors on request.

⑦ Pump Options

50 Hz Motor	Standard in	Code
1,6 cc/rev.	OLSW-1-30	00
3,15 cc/rev.	OLSW-1-60/2-30	10
6,1 cc/rev.	OLSW-2-60/4-30	20
11,3 cc/rev.	OLSW-4-60	40

60 Hz Motor	Standard in	Code
1,25 cc/rev.	OLSW-1-30	01
2,5 cc/rev.	OLSW-1-60/2-30	11
5,0 cc/rev.	OLSW-2-60/4-30	21
10 cc/rev.	OLSW-4-60	41

⑧ Clogging Indicator

Visual clogging indicator	V

⑨ Mounting Options

No options (standard)	O

⑩ Pre-Filter Elements

Water absorption element	
SF-6721-W (10 micron water absorbing, capacity 444 ml water)	A
Pre-filter elements (particles)	
without pre-filter element	O
SF-6702-MG (inorganic glass fiber, 1 micron)	B
SF-6704-MG (inorganic glass fibre, 3 micron)	C
SF-6707-MG (inorganic glass fibre, 6 micron)	D
SF-6731-MG (inorganic glass fibre, 12 micron)	E
SF-6726-MG (inorganic glass fibre, 25 micron)	F
SF-6721 (filter paper, 10 micron)	G
SF-6711 (filter paper, 25 micron)	H
SF-6791 (wire mesh, 125 micron)	J

G

Filter Elements ▪ Type SRM

SRM - 30 - H - B / X

① ② ③ ④ ⑤

① Type

Filter Element Series	SRM

② Filter Element Length

300 mm / 11.81 in	30
600 mm / 23.62 in	60

③ Filter Material and Micron Rating

Material	Micron rating µm	Code
Cellulose (standard)	0,5	H
Inorg. glass fibre and polymer (water absorption)	5	EA

④ Sealing Material

NBR (Buna-N®) (standard)	B
FKM (Viton®)	V

⑤ Design Code

Only for information	X

Pre-Filter Elements ▪ Type SF-67

SF-6721-W

①

① Pre-Filter Elements

Water absorption element	
SF-6721-W (10 micron water absorbing, capacity 444 ml water)	A
Pre-filter elements (particles)	
without pre-filter element	O
SF-6702-MG (inorganic glass fiber, 1 micron)	B
SF-6704-MG (inorganic glass fibre, 3 micron)	C
SF-6707-MG (inorganic glass fibre, 6 micron)	D
SF-6731-MG (inorganic glass fibre, 12 micron)	E
SF-6726-MG (inorganic glass fibre, 25 micron)	F
SF-6721 (filter paper, 10 micron)	G
SF-6711 (filter paper, 25 micron)	H
SF-6791 (wire mesh, 125 micron)	J

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