

## RMF Systems

RMF Systems radial micro filter units are characterised by their extremely efficient filter elements which are rated to 0.5 micron.

Specially designed for industrial hydraulic installations the RMF Off-line filters are available in single or multiple housing configurations. The Off-line filter units can easily be mounted to new and existing hydraulic installations.

By means of an integrated motor/pump unit and an Off-line 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 RMF Water Absorbing Off-line 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 RMF filters results in lower component failure rates, less down time and less system maintenance.

## Water Absorbing

RMF Water absorbing filters are Off-line 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 RMF micro filter where final water removal takes place as well as solid removal down to 0.5 micron.

In recent years RMF 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  $\beta_2 \geq 2,330$
- Prevention of channel forming by radial filtration direction
- Increased flow capacity
- Increased dirt holding capacity
- Large water holding capacity
- Compact and easy-maintenance design
- Longer usage life for oil and components



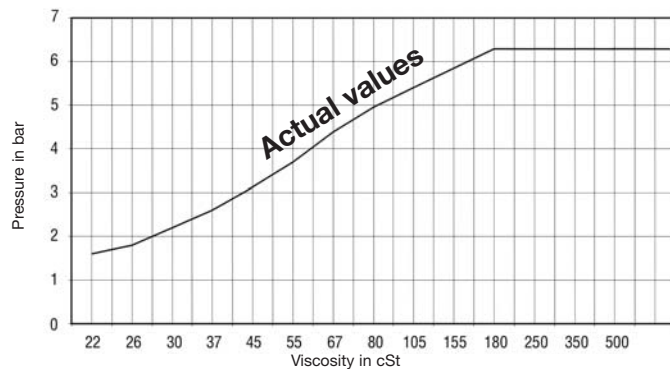


**Water Absorbing Off-Line Filters OLSW Technical Data**

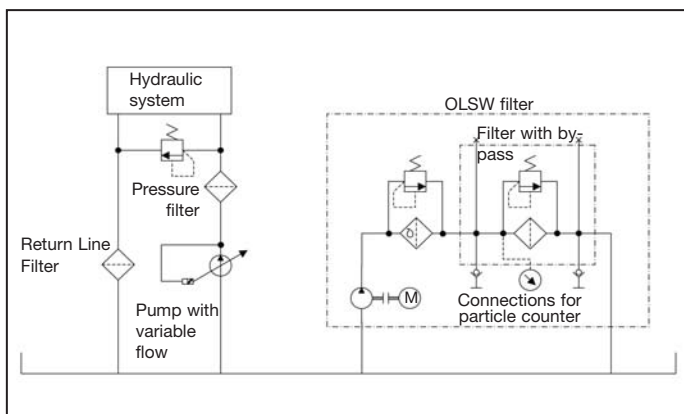
**Technical Data OLSW**

Type Filter	OLSW - 1A - 30 - H - B	OLSW - 1B - 30 - H - B
No. of filter housings	1	1
Material filter housings	Anodised Aluminum	
Seal material	Buna-N Standard	
Nominal Flow	2,1 l/min (0,6 US GPM)	4,2 l/min (1,1 US GPM)
By-pass opening pressure	6,2 bar (90 PSI at 0 PSI back pressure)	
Number of standard filter elements	1 pcs.	2 pcs.
Number of Pre-filter elements	1 pcs.	1 pcs.
Water absorbing capacity	650 ml (22 oz.)	800 ml (27 oz.)
Max pressure filter housing	20 bar (290 PSI)	
Max oil temperature	80°C (176°F)	
Max viscosity	160 cSt	
Indicator type	Gauge glycerine filled	
Connection pump suction	3/8" BSP female	1/2" BSP female
Diameter hose suction side	1/2"	
Filter return connection	1/2" BSP female	
Diameter hose return side	1/2"	
Dimensions (HxBxL)	400 x 360 x 330 mm (15.7 x 14.2 x 13")	710 x 410 x 320 mm (28 x 16 x 12.6")
Pump type	Gear pump	
Power supply E-motor	Various electrical power supplies possible	
Max system volume	1,350 liter (356 gal)	2,700 liter (713 gal)
<b>Standard units for larger system volumes are also available</b>		
Connection oil-analysis: P1 filter inlet side P2 filter outlet side	Test connector (M16x2) Red Test connector (M16x2)	

**Δp / Viscosity for OLSW-Filter**



**System example  
Schematic Off-line filtration incl. water absorption**



Water absorbing spin-on filter element

**FILTRATION**

## Ordering Code

**OLSW - 1A - 30 - H - B - 0 - 01 - 0 - 0 - A**

Basic Configuration	
<b>OLSW</b>	Off-Line Filter incl. water absorption (for industrial applications)

Housing Configuration				
Code	Single length	suitable for reservoir size	N° of elements standard	Pre-filter
<b>1A</b>	Single Housing Single Length	1350 l (357 gal)	1x1 pcs	1 pcs
<b>1B</b>	Single Housing Double Length	2700 l (713 gal)	1x2 pcs	1 pcs

Filter Element Length	
<b>30</b>	300 mm (standard)

Filter Material	
<b>H</b>	Cellulose 0,5µm (standard)

Seal Material	
<b>B</b>	NBR (Buna-N®) (standard)
<b>V</b>	FPM (Viton)

E-motor Options	
Code	Type
<b>0</b>	230/400 VAC-50 Hz / 1360 r/min; 255/460 VAC-60 Hz / 1630 r/min (standard)
<b>A</b>	230 VAC-50 Hz / single phase 1360 r/min
<b>C</b>	110 VAC-50Hz / single phase
<b>D</b>	110 VAC-60Hz / single phase

Pre-Filter Elements	
Water absorption element	
<b>A</b>	SF6721-W (10 micron water absorbing, capacity 540 ml water)
Pre-filter elements (particles)	
<b>0</b>	without pre-filter element
<b>B</b>	SF6702-MG (inorganic glass fiber, 1 micron)
<b>C</b>	SF6704-MG (inorganic glass fiber, 3 micron)
<b>D</b>	SF6707-MG (inorganic glass fiber, 6 micron)
<b>E</b>	SF6731-MG (inorganic glass fiber, 12 micron)
<b>F</b>	SF6726-MG (inorganic glass fiber, 25 micron)
<b>G</b>	SF6721 (filter paper, 10 micron)
<b>H</b>	SF6711 (filter paper, 25 micron)
<b>J</b>	SF6791 (wire mesh, 125 micron)

Options	
<b>0</b>	No options

Clogging Indicator	
<b>0</b>	Pressure gauge 1 - 16 bar (standard)

Pump Options		
Code	50 Hz motor	Standard in
00	10C1,6X053G / 1,6 cc/rev.	
10	10C3,6X053G / 3,15 cc/rev.	
50	MLPD/G 108C / 0,8 cc/rev.	
Code	60 Hz motor	Standard in
01	10C1,25X053G / 1,25 cc/rev.	OLSW-1A
11	10C2,5X053G / 2,5 cc/rev.	OLSW-1B

See page F102 for Technical Motor Specifications.

FILTRATION

## Ordering Code Standard Filter Elements

**SRM - 30HB - 1**

Filter Element	
<b>SRM-30HB</b>	Replacement filter element for OLSW series length 300 mm, cellulose 0.5 micron (for more details see page F113 & F114)

Quantity	
<b>1</b>	1 pcs. filter element
<b>15</b>	box with 15 pcs. filter element

## Ordering Code Pre-Filter Elements

Pre-Filter Elements	
<b>SF6721-W</b>	Spin-on filter element, water absorbing, 10 micron
<b>SF6702-MG</b>	Spin-on filter element, inorganic glass fiber, 1 micron
<b>SF6704-MG</b>	Spin-on filter element, inorganic glass fiber, 3 micron
<b>SF6707-MG</b>	Spin-on filter element, inorganic glass fiber, 6 micron
<b>SF6731-MG</b>	Spin-on filter element, inorganic glass fiber, 12 micron
<b>SF6726-MG</b>	Spin-on filter element, inorganic glass fiber, 25 micron
<b>SF6721</b>	Spin-on filter element, filter paper, 10 micron
<b>SF6711</b>	Spin-on filter element, filter paper, 25 micron
<b>SF6791</b>	Spin-on filter element, wire mesh, 125 micron

**SF6721 - W**