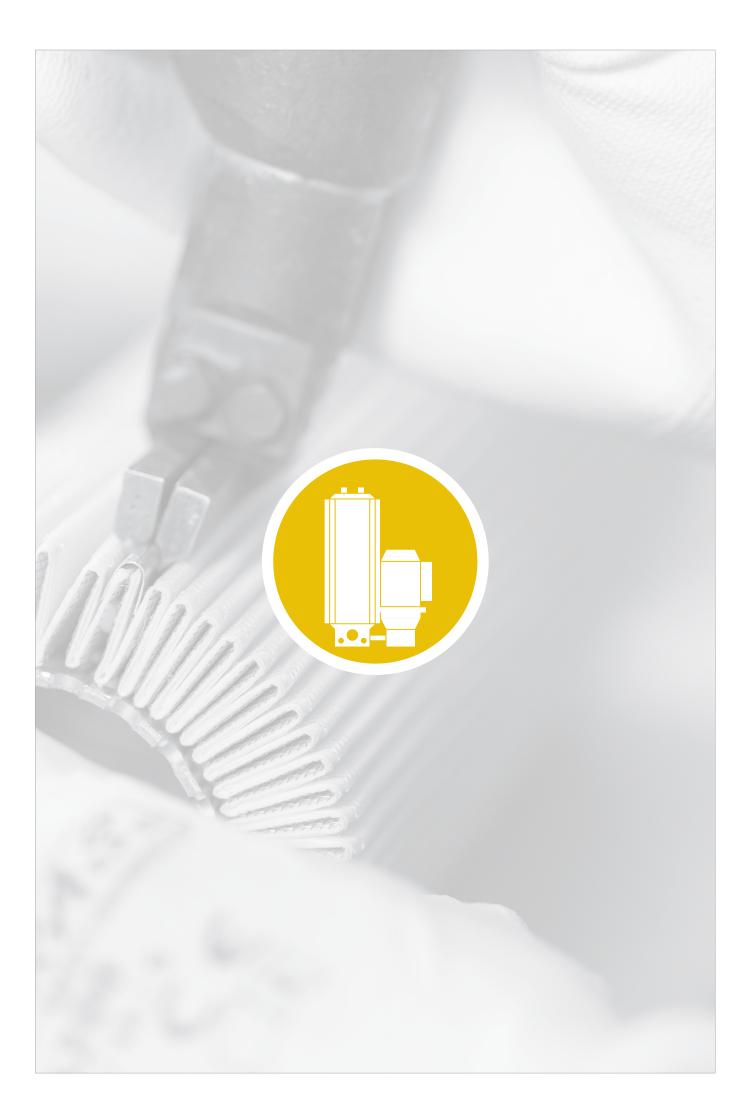




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Product Description

STAUFF Offline and Bypass Filter Systems are designed to keep hydraulic and lubrication systems free of particles and water contamination. STAUFF OLS and BPS Units utilize the STAUFF Systems concept for the removal of contamination from hydraulic and lubrication systems. Desiccant Air Breathers, which clean and dry the air entering the reservoir, are also part of this contamination removal system.

STAUFF Systems will provide optimal system cleanliness for today's sophisticated hydraulic and lubrication systems.

- Increased flow capacity and dirt-hold capacity
- Prevention of channel forming by radial filtration direction
- Extremely clean oil due to the high filtration efficiency $\beta_{_{0,5}} \! \geq \! 200, \, \beta_{_2} \! \geq \! 2330$
- Compact and easy-maintenance design
- Longer usage life for oil and components

Material

 Housing: Anodized Aluminium, available with one, two or four filter housings in two different length

Housing Pressure

Max. 20 bar / 290 PSI

System Volume

Max. 10800 I / 2853 US GAL

Connections

G3/8, G1/2 and G3/4, Fitting with 18L connection

Differential Pressure

Max. 6,2 bar / 90 PSI

Max. +80 °C / +176 °F media temperature

Temperature

- Media Compatibility
- Mineral and lubrication oils, others on request

Options and Accessories

Clogging Indicators

Visual Clogging Indicators

Type BPS

- · Bypass filter units are especially designed for mobile
- Applications in hydraulic and/or transmission systems
- No special motor-pump unit is required



Type OLS

- Offline Filter System with intergrated motor/pump unit
- Availab Special designed for industrial applications





Type OLSW

 Water absorbing filter elements with large water holding capacity



Type SMWV

- Designated oil purification unit, it dehydrates and cleans most types of oils such as lubricating, hydraulic, transformer and switch oils
- Efficient water, gas and particle removal
- System volume: max. 3.000 l / 795 gal
- Recirculating flow rate: 90 l/h / 23.8 gal/hr
- Backpressure: max. 1 bar / 14.5 PSI
- Extension of fluid life
- Reduces fluid disposal
- Minimizes corrosion
- Reduced failures and downtime
- Reduce operating costs



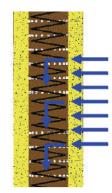
Type OLSH

Pre-heating unit and extremely efficient filter elements
Increased flow capacity

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Filter Element SRM-30/-60



Filter Element Design



Air Conditioners SDB / SVDB

System Contamination

In today's hydraulic market it is an accepted fact that contamination causes 70 % of all mechanical failures. This contamination results from the presence of solid particles such as metal, sand and rubber.

Changes in temperature cause water vapour to condense, resulting in unwanted water in the oil, the presence of this water accelerates the deterioration of the oil.

Mainstream filters are incapable of removing particles, smaller than 2 micron (better known as silt). Fluctuations in pressure and flow result in changing conditions preventing these filters from carrying out fine filtration; most of the silt remains in the system affecting the chemical composition of the oil.

All these problems lead to reduced oil life and increased component wear, maintenance costs and machine downtime.

Removing silt and preventing the formation of free water will combat these problems.

Micro Filtration

At the heart of the STAUFF Offline and Bypass Filter Unit is the unique microfilter element. This filter is designed with a radial flow path.

The element is constructed with 0,5 micron media and is therefore able to remove the smallest particles (silt) from the oil.

The filter material is composed primarily of cellulose, which is applied by a special wrapping method. Glass Fibre and water absorbing elements with 3-20 µm are available on request.

The cellulose material is capable of retaining solid particles and absorbing water. This helps to prevent chemical deterioration of the oil and the formation of various acids and sludge.

Hydraulic cylinder extension for example, can draw air, solid contamination particles and water vapour into the oil reservoir.

The water vapour condenses due to temperature changes and causes not only oxidation of the oil, but can also lead to serious mechanical wear in the system.

Air Conditioning

Standard air filters remove a certain amount of solid particle contamination from the air but allow water vapour, to pass through.

The STAUFF "Air conditioners" type SDB and SVDB ensure that incoming air is first dried and then filtered. The SDB and SVDB units should be used in conjunction with the OLS / BPS Systems in order to provide a more complete filtering system. See Catalogue No. 10 - Hydraulic Accessories for more details.

Advantages

- Less mailfunction
- Protection of expensive main stream filters
- Less frequent oil changes
- Extended usable life of the oil
- Less machine downtimes

Characteristics

- A filter fineness of 0,5 micron $\beta_{0.5} \ge 200$, $\beta_2 \ge 2330$
- · Large particle collection capacity
- High filtration capacity due to depth effect
- Large water adsorption capacity
- Do not adversely affect viscosity or additives
- Do not remove additives
- Reduce the oxidation process
- Reduce the forming of acids
- · With two measuring points for particle counter or oil sampling
- Save Cost

Applications

- Mining
- Harvesting
- Forestry
- Agricultural
- Off-roadFishing
- Fishing
- Road construction
- Cranes
- Airport equipment
- Flight simulators
- Pulp and paper
- Food processing

- Presses
- Automotive industry
- Timber plants
- Plastic and rubber
- Metal industry
- · Cement and concrete
- Material handling
- Bridges/Hydraulic locks/Water works
- Petrochemical industry
- Power stations
- MarineSteel



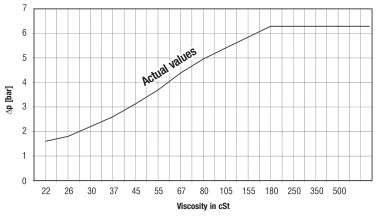
Offline and Bypass Filters Replacement Elements - Type SRM

Filter Element Technical Data

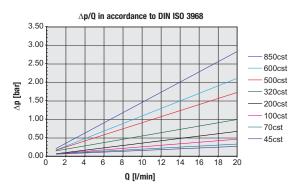
Element Model	SRM-30-H-B	SRM-60-H-B	SRM-30-E-01-B	SRM-60-E-01-B	SRM-30-E-03-B	SRM-60-E-03-B	SRM-30-EA	SRM-60-EA		
Filter Material	Cellulose	Cellulose	Glass fibre	Glass fibre	Glass fibre	Glass fibre	Glass fibre and Polymer	Glass fibre and Polymer		
Filtration Efficiency	$\beta_2 \ge 2331$	$\beta_2 \ge 2331$	$B_1 \ge 200$	$\beta_1 \ge 200$	$\beta_{_3} \ge 200$	$\beta_{_3} \ge 200$	$\beta_5 \ge 200$	$\beta_5 \ge 200$		
Water Absorption Capacity	150 ml 5 oz	300 ml 10 oz	N/A	N/A	N/A	N/A	350 ml 11.8 oz	700 ml 23.6 oz		
Nominal Flow per Element	2,1 l/min .6 GPM	4,2 l/min 1.2 GPM	2,1 I/min .6 GPM	4,2 l/min 1.2 GPM	2,1 l/min .6 GPM	4,2 I/min 1.2 GPM	2,1 I/min .6 GPM	4,2 l/min 1.2 GPM		
Max. Viscosity at Nominal Flow Rate	180 cSt	180 cSt	800 cSt	800 cSt	800 cSt	800 cSt	800 cSt	800 cSt		
Max. Oil Temperature	+80 °C +176 °F	+80 °C +176 °F	+80 °C +176 °F	+80 °C +176 °F	+80 °C +176 °F	+80 °C +176 °F	+80 °C +176 °F	+80 °C +176 °F		
Lenght of Element	300 mm 11.8 in	600 mm 23.6 in	300 mm 11.8 in	600 mm 23.6 in	300 mm 11.8 in	600 mm 23.6 in	300 mm 11.8 in	600 mm 23.6 in		
Sealing Material (Standard)	NBR (Buna-N®) and Silicone Rubber NBR (Buna-N®)			NBR (Buna-N®)		NBR (Buna-N®)				
Other Sealing Material	Contact STAUFF	:								
Fluid Compatibility:										
Mineral Oils										
H, HI, HLP, HVLP	OK		OK		OK			OK		
Biodegradable Oils										
HEPG Polethyleneglycol	Contact STAUFF	:								
HEES Synthetic ester	OK		OK		OK		OK			
HETG Vegetable seed oil	Contact STAUFF									
Fire Inhibiting Fluids										
HFA emulsions	NO		OK		OK		NO			
HFC glycol/water solution	NO		OK		OK NO					
HFD fluids no water content	Contact STAUFF									
Approximate Weight	0,8 kg		1,25 kg		1,25 kg		1,25 kg			
	1.8 lb	1.8 lb 2.8 lb			2.8 lb			2.8 lb		

Filter Element SRM-30-H-B Δp / viscosity - graph

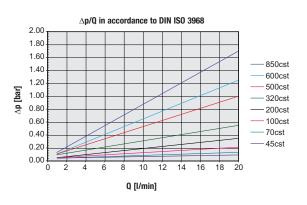
(at a flow of 2,1 I/min / .6 US GPM per element)



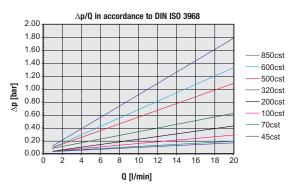
Filter Element SRM-30-E-01-B $\triangle P$ / Viscosity-Graph



Filter Element SRM-30-E-03-B $\triangle P$ / Viscosity-Graph



Filter Element SRM-30-EA $\triangle P$ / Viscosity-Graph





Offline Filters • Type OLS

Product Description

STAUFF Offline Filter Units can be applied to every imaginable industrial application where hydraulic or lubrication systems are present.

An integrated motor/pump unit draws fluid out of the tank, filters it and pumps clean oil back into the system. Offline Filter Units can continue to work even if the main system is not in use. The standard range offers filter units for reservoirs with a capacity of up to 10800 I / 2853 gal.

Over the years, STAUFF Systems have developed considerable experience in the hydraulic and lubrication market cleaning systems to levels not previously possible with conventional methods. The OLS is available with one, two or four filter housings and in two different lengths. The maximum flow for the Offline Unit goes from 2,1 ... 17 l/min / .55 ... 4.5 US GPM at a viscosity between 20 ... 160 cSt. For the OLS you can choose several different motor/pump units, for more information please see page 188 (Order code).

All Offline Filter Systems are available with air driven motors. These units are ideal for areas where electric power is unavailable or for hazardous locations.

Single Length (see page 184 / 185)



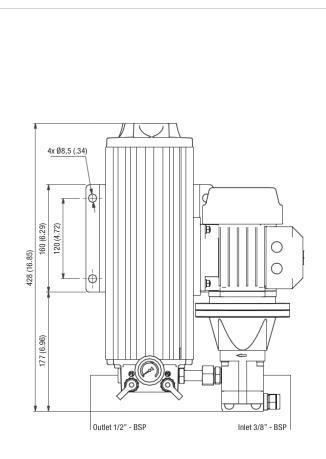
Double Length (see page 186 / 187)



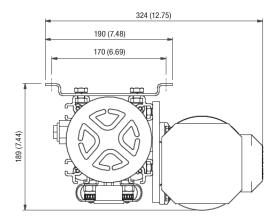


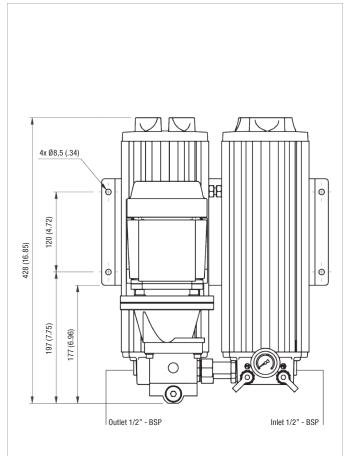
Dimensions OLS-1-30-H-B

Dimensions OLS-2-30-H-B





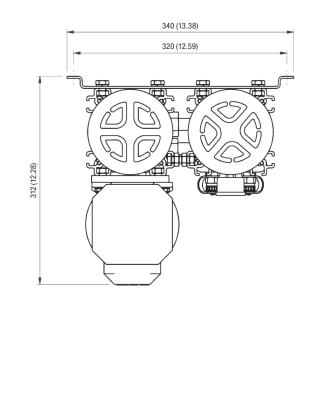




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STAUFF

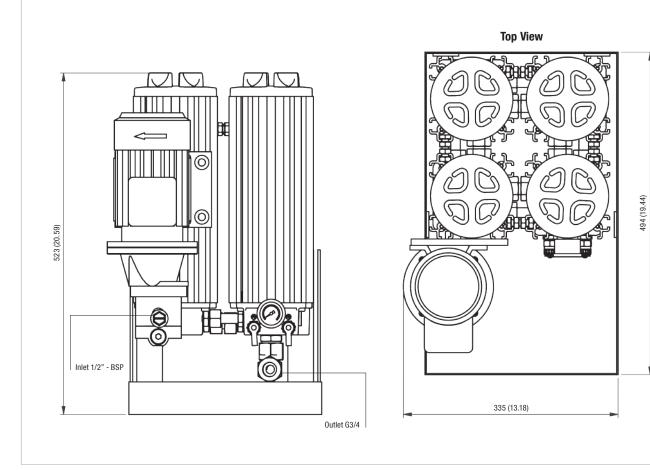
Top View





Offline Filters - Type OLS

Dimensions OLS-4-30-H-B



All dimensions in mm / in

G

Technical Data

	0LS-1-30-H-B	0LS-2-30-H-B	0LS-4-30-H-B					
Number of Filter Housings	1	2	4					
Nominal Flow	2,1 l/min	4,2 l/min	8,4 I/min					
Nominal Flow	.55 US GPM	1.1 US GPM	2.22 US GPM					
Max. Differential Pressure	6,2 bar							
Max. Differential Pressure	90 PSI							
Max. Fluid Temperature	+80 °C							
	+176 °F							
Max. Housing Pressure	20 bar							
Max. Housing Pressure	290 PSI							
Viscosity Range	20 160 cSt 100 750 SUS	20 160 cSt 100 750 SUS						
Connection Suction Side	G3/8	G1/2						
Connection Return Side	G1/2		G3/4					
Hose Diameter	1/2 in (inner diameter) flexible hose		3/4 in (inner diameter) flexible hose					
Weight (Including Element)	14 kg	21 kg	39 kg					
weight (including Liement)	30.9 lbs	46.3 lbs	86 lbs					
Max. System Volume	1350 l	2700 I	5400					
	356 gal	713 gal	1426 gal					
Dimensions	428 x 324 x 189 mm	428 x 340 x 312 mm	523 x 494 x 335 mm					
H x W x D	16.85 x 12.75 x 7.44 in	16.85 x 13.38 x 12.28 in	20.59 x 19.44 x 13.18 in					
Connection for Online Particle Counter	STAUFF Test (M16 x 2)							
Pump	Gear pump							
Motor	See page 188 for electric motor details							
Connection Oil-Analysis: P1 filter inlet side P2 filter outlet side	Test connector (M16 x 2) Red Test connector (M16 x 2) Yellow							



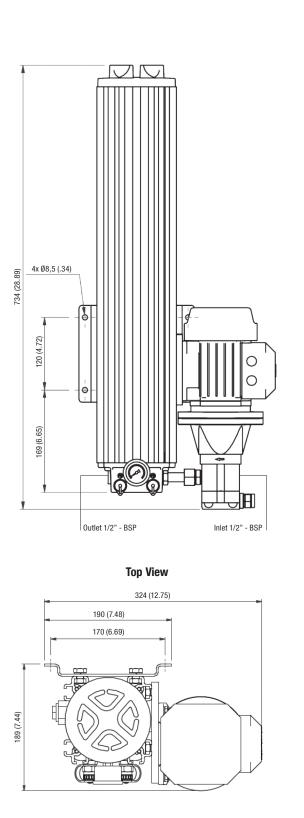
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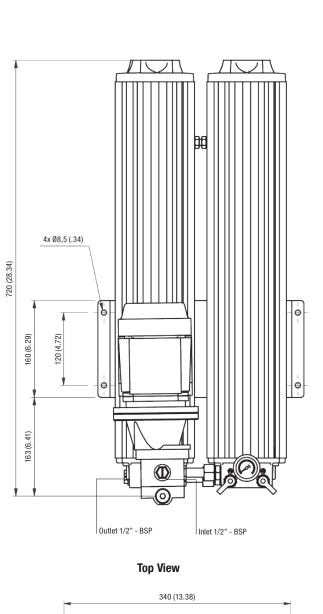


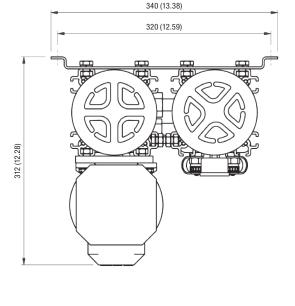
Offline Filters = Type OLS

Dimensions OLS-1-60-H-B

Dimensions OLS-2-60-H-B





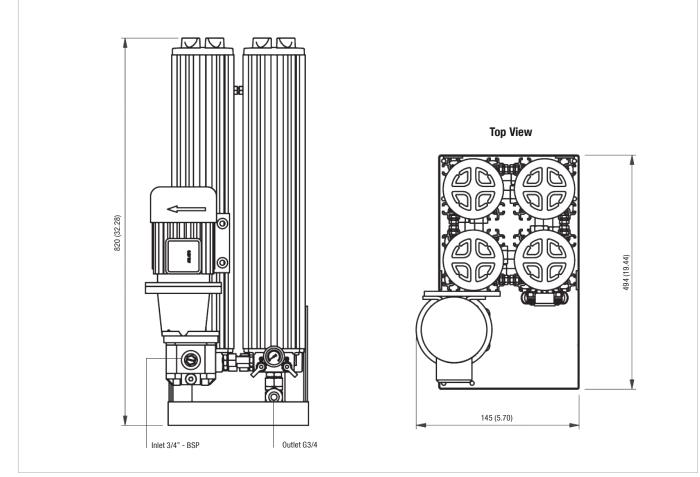


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Offline Filters - Type OLS

Dimensions OLS-4-60-H-B



Technical Data

	0LS-1-60-H-B	0LS-2-60-H-B	0LS-4-60-H-B			
Number of Filter Housings	1	2	4			
Nominal Flow	4,2 l/min	8,4 l/min	17 //min			
	1.1 US GPM 6,2 bar	2.22 US GPM	4.5 US GPM			
Max. Differential Pressure	90 PSI					
	+80 °C					
Max. Fluid Temperature	+176 °F					
Max. Housing Pressure	20 bar					
Max. Housing Flessure	290 PSI					
Viscosity Range	20 160 cSt					
	100 750 SUS					
Connection Suction Side	G1/2	G1/2	G3/4			
Connection Return Side	G1/2		G3/4			
Hose Diameter	1/2 in (inner diameter) flexible hose		3/4 in (inner diameter) flexible hose			
Weight (Including Element)	18 kg	30 kg	61 kg			
Weight (including Element)	39.7 lbs	66.1 lbs	134.5 lbs			
Max. System Volume	2700	5400 I	10800 I			
-	713 gal	1426 gal	2853 gal			
Dimensions H x W x D	734 x 324 x 189 mm	720 x 340 x 312 mm	820 x 494 x 145 mm			
	28.66 x 13.19 x 7.48 in	28.90 x 13.39 x 12.72 in	32.28 x 19.44 x 5.70 in			
Connection for Online Particle Counter	STAUFF Test (M16 x 2)					
Pump	Gear pump					
Motor	See page 188 for electric motor details					
Connection Oil-Analysis: P1 filter inlet side P2 filter outlet side	Test connector (M16 x 2) Red Test connector (M16 x 2) Yellow					

All dimensions in mm / in

G

Catalogue 9 - Edition 04/2020



Offline Filter Housings / Complete Filters = Type OLS

OLS	- 1 -	30 - H	- B ·	A	- 01	- V - O	
1	2	3 4	5	6	7) (8) (9)	
1) Туре		(5) Sealing Mate	erial			(8) Clogging Indicator	
Offline Filter Unit	OLS	NBR (Buna-N®)	(standard)		В	Visual clogging indicator	v
(for industrial applications)		FKM (Viton®)			v		
Housing Configuration		C E-motor Onti	0.00			Mounting Options	0
(2) Housing Configuration Single housing	1	6 E-motor Opti	0115		Oada	No options (standard) Motor / pump right side mounted	0
Twin housing	2				Code	Motor / pump left side mounted	2
Quadruple housing	4	255/460 V AC, 6	0 Hz, three phases 0 Hz, three phases				2
		(50 Hz and 60 Hz	z standard)				
③ Filter Element Length		230 V AC, 50 Hz,	single phase, 136	60 r/min	G		
300 mm / 11.81 in	30	110 V AC, 50 Hz,	single phase		I		
600 mm / 23.62 in	60	110 V AC, 60 Hz,	single phase		J		
(4) Filter Material and Micron Ra	tina	230 V AC, 60 Hz,	single phase, 163	30 r/min	Н		
Material	Micron rating µm Code	Note: Special mo	otors on request.				
Cellulose (standard)),5 H	Pump Option	S				
Inorg. glass fibre	1 E-01	50 Hz Motor	Star	ndard in	Code		
Inorg. glass fibre	B E-03	1,6 cc/rev.	OLS	-1-30	00		

0LS-2-30/1-60

0LS-4-30/2-60

0LS-4-60

Standard in

0LS-2-30/1-60

0LS-4-30/2-60

0LS-1-30

0LS-4-60

10

20

30

40

50

Code 01

11

21

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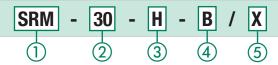
Ciltor	Elomonto	. т	who	CDM
ГШЕГ	Elements		ype	JUIN

Inorg. glass fibre

Inorg. glass fibre

Inorg. glass fibre

Inorg. glass fibre and polymer (water absorption)



	1) Type	
	Filter Element Series	SRM
(② Filter Element Length	
	300 mm / 11.81 in	30
	600 mm / 23.62 in	60

10	3)	Filter	Material	and	Micron	Rating
1.	3)	1 IIIUI	material	anu	INITED OF	naung

Material	Micron rating µm	Code
Cellulose (standard)	0,5	H
norg. glass fibre	1	E-01
Inorg. glass fibre	3	E-03
lnorg. glass fibre	5	E-05
norg. glass fibre	10	E-10
lnorg. glass fibre	20	E-20
Inorg. glass fibre and polymer (water absorption)	5	EA

(4) Sealing Material

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

X

(5) Design Code

Only for information

Technical Data on Electric Motors used for OLS Filters (For air driven motors contact STAUFF)

E-05

E-10

E-20

EA

3,15 cc/rev.

6.1 cc/rev.

8,2 cc/rev.

11,3 cc/rev.

0,8 cc/rev.

60 Hz motor

1,25 cc/rev.

2,5 cc/rev. 5,0 cc/rev.

6,3 cc/rev.

10 cc/rev.

5

10

20

5

E-motor	Standard Configuration	Description	Power in kW	Power in HP	Voltage 50 Hz	Amp 50 Hz	RPM 50 Hz	Voltage 60 Hz	Amp 60 Hz	RPM 60 Hz
I, J	0LS-1-30 0LS-2-30 0LS-1-60	M63 B3/B5 4P 110V MULTIVOLT	0,18	0.24	110 V AC	3,30		110 V AC	2,70	
G, H	0LS-1-30 0LS-2-30 0LS-1-60	M63 B3/B5 4P 230 MULTIVOLT	0,18	0.24	230 V AC	1,57		230 V AC	1,34	
Α	0LS-1-30 0LS-2-30 0LS-1-60	M63 B3/B5 4P 3PH MULTIVOLT	0,18	0.24	230/400 V AC	1,03 / 0,60		254/440 V AC	0,90 / 0,52	
Α	0LS-2-60 0LS-4-30	M63 B3/B5 4P 3PH MULTIVOLT	0,29	0.39	230/400 V AC	1,65 / 0,95	1460	254/440 V AC	1,47 / 0,85	1740
I, J	0LS-2-60 0LS-4-30 0LS-4-60	M71 B3/B5 4P 110V MULTIVOLT	0,37	0.50	110 V AC	6,10		110 V AC	5,20	
G, H	0LS-2-60 0LS-4-30 0LS-4-60	M71 B3/B5 4P 230V MULTIVOLT	0,37	0.50	230 V AC	3,00		230 V AC	2,65	
Α	0LS-4-60	M71 B3/B5 4P 3PH MULTIVOLT	0,37	0.50	230/400 V AC	1,90 / 1,10		254/440 V AC	1,60 / 0,93	



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 $\beta_{0.5} \ge 200, \beta_2 \ge 2330$
- 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

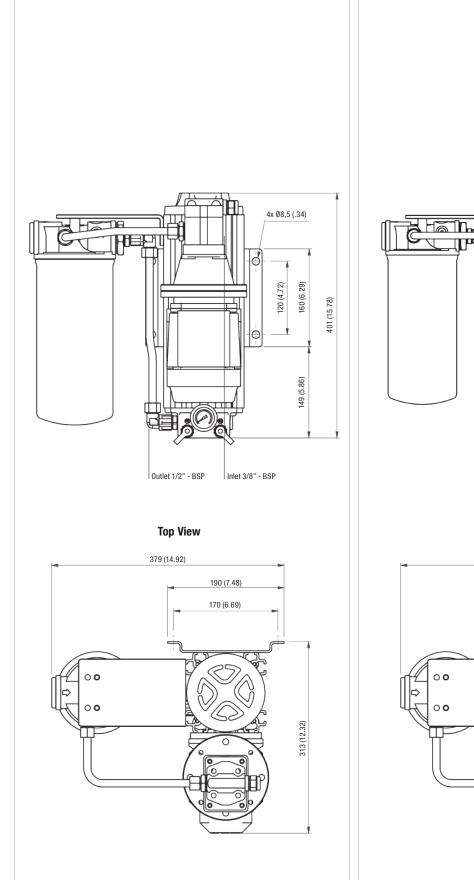


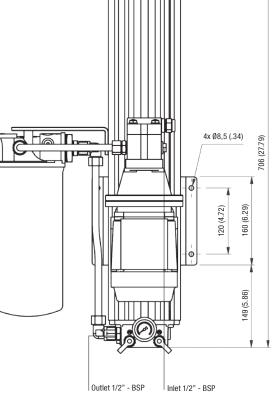


Water Absorbing Offline Filter - Type OLSW

Dimensions OLSW-1-30

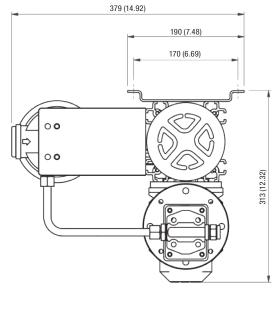
Dimensions OLSW-1-60





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Top View

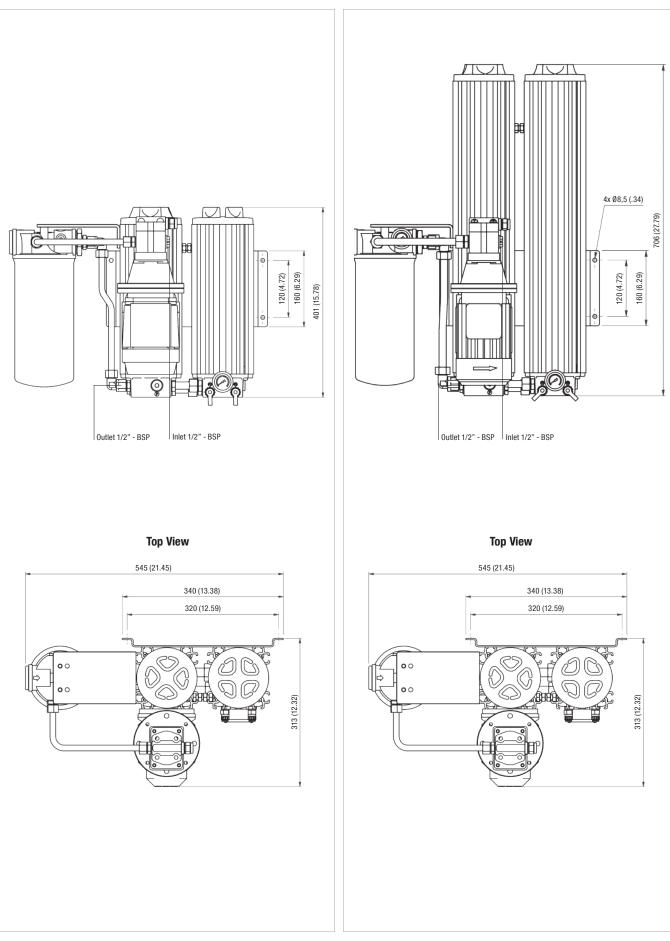




Dimensions OLSW-2-30

Water Absorbing Offline Filter - Type OLSW

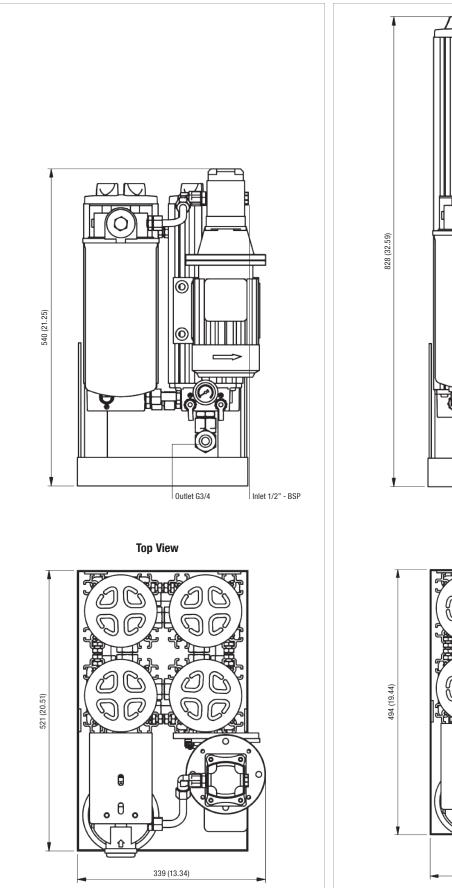
Dimensions OLSW-2-60

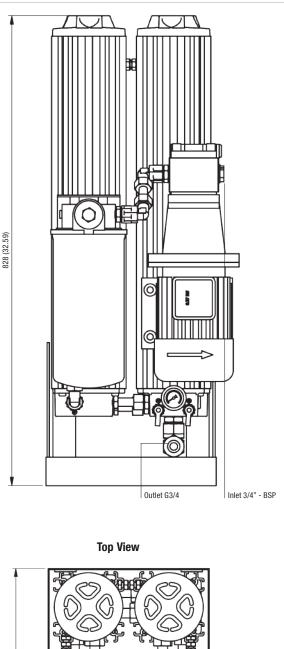


All dimensions in $\mbox{mm}\,/\,\mbox{in}$

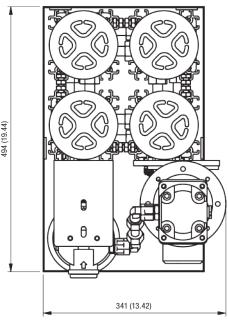
Water Absorbing Offline Filter - Type OLSW

Dimensions OLSW-4-30





Dimensions OLSW-4-60





Water Absorbing Offline Filter - Type OLSW

Technical Data OLSW

	0LSW-1-30-H-B	OLSW-1-60-H-B	0LSW-2-30-H-B	0LSW-2-60-H-B	0LSW-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 I/min	8,4 l/min	16,8 l/min					
Nominal Flow	.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 elem	nent without backpressure			·						
Max. Differential Pressure	90 PSI over the filter elem	ent without backpressure									
Water Absorbing Consoits	794 ml	1144 ml	1144 ml	1844 ml	1844 ml	3244 ml					
Water Absorbing Capacity	25 oz.	38 oz.	38 oz.	62 oz.	62 oz.	109 oz.					
Mary Florid Terrorenations	+80 °C										
Max. Fluid Temperature	+176 °F										
Mar Handler David	20 bar										
Max. Housing Pressure	290 PSI										
	20 160 cSt										
Viscosity Range	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) flex	ible hose				3/4 in (inner diameter) flexible hose					
	18 kg	22 kg	25 kg	34 kg	43 kg	65 kg					
Weight (including Element)	39.7 lbs	48.5 lbs	55. 1 lbs	75.0 lbs	94.8 lbs	143.3 lbs					
	1350	2700	2700	5400	5400 I	10800					
Max. System Volume	356 gal	713 gal	713 gal	1427 gal	1427 gal	2853 gal					
Dimensions	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					
HxBxL	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 i					
Pump	Gear pump										
Connection Oil-Analysis: P1 filter inlet side P2 filter outlet side	Test connector (M16 x 2) F Test connector (M16 x 2) Y										

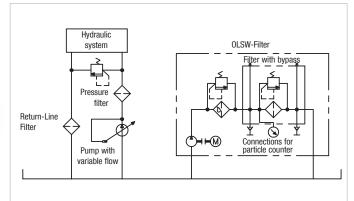




Water absorbing spin-on filter element

 $\Delta \textbf{p}$ / Viscosity for OLSW-Filter 7 6 alues 5 Actual 4 ∆p [bar] 3 2 1 0 22 26 30 37 45 55 67 80 105 155 180 250 350 500 Viscosity in cSt

System Example Schematic Offline Filtration incl. Water Absorption





Water Absorbing Offline Filter Housings / Complete Filters - Type OLSW

OLSW	- 1	- 3	0 - H - B	- A -	01	- V - O - A	
(1)	2	3	3 4 5	6	\bigcirc	\$ 9 10	
1) Туре			(5) Sealing Material			(8) Clogging Indicator	
Offline Filter Unit incl. water abso	rption	OLSW	NBR (Buna-N®) (standard)		В	Visual clogging indicator	V
(for industrial applications)			FKM (Viton®)		V		
						Mounting Options	
(2) Housing Configuration			6 E-motor Options			No options (standard)	0
Single housing		1	Motor Type		Code		
Twin housing		2	230/400 V AC, 50 Hz, three	e nhases 1360 r/min		1 Pre-Filter Elements	
Quadruple housing		4	255/460 V AC, 60 Hz, three phases, 1630 r/min A		Α	Water absorption element	
			(50 Hz and 60 Hz standard)			SF-6721-W (10 micron water absorbing,	
③ Filter Element Length			230 V AC, 50 Hz, single phase, 1360 r/min G		G	capacity 444 ml water)	
300 mm / 11.81 in		30	110 V AC, 50 Hz, single phase		1	Pre-filter elements (particles)	
600 mm / 23.62 in		60	110 V AC, 60 Hz, single phase J		J	without pre-filter element	
	Dating					SF-6702-MG (inorganic glass fiber, 1 micron)	
4 Filter Material and Micron			Note: Special motors on re	quest.		SF-6704-MG (inorganic glass fibre, 3 micron)	C
Material	Micron rating µm	Code	Dump Ontions			SF-6707-MG (inorganic glass fibre, 6 micron)	D
Colligions (standard)	0.		⑦ Pump Options			SF-6731-MG (inorganic glass fibre, 12 micron) SF-6726-MG (inorganic glass fibre, 25 micron)	F
Cellulose (standard) Inorg. glass fibre and polymer	0,5	Н	50 Hz Motor	Standard in	Code	SF-6721 (filter paper, 10 micron)	G
(water absorption)	5	EA	1,6 cc/rev.	0LSW-1-30	00	SF-6711 (filter paper, 25 micron)	H
(3,15 cc/rev.	0LSW-1-60/2-30	10	SF-6791 (wire mesh, 125 micron)	- 1
			6,1 cc/rev.	0LSW-2-60/4-30	20		5
			11,3 cc/rev.	0LSW-4-60	40		
			CO II- Mater	Chan doud in	Onda		
			60 Hz Motor	Standard in	Code		

1,25 cc/rev.

2,5 cc/rev.

5,0 cc/rev.

10 cc/rev.

Pre-Filter Elements Type SF-67

01

11

21

41



1 Pre-Filter Elements

0LSW-1-30

0LSW-4-60

0LSW-1-60/2-30

0LSW-2-60/4-30

Ċ		
	Water absorption element	
	SF-6721-W (10 micron water absorbing, capacity 444 ml water)	A
	Pre-filter elements (particles)	
	without pre-filter element	0
	SF-6702-MG (inorganic glass fiber, 1 micron)	В
	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)	Е
	SF-6726-MG (inorganic glass fibre, 25 micron)	F
	SF-6721 (filter paper, 10 micron)	G
	SF-6711 (filter paper, 25 micron)	Η
	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 Elem	ent Series			SRM
② Filter Ele		gth		
300 mm / 1 600 mm / 2				30 60
③ Filter Ma	terial and	Micron F	lating	
Material			Micron rating µm	Code
Cellulose (standard)		0,5	Н
Inorg. glas (water abs	s fibre and po orption)	olymer	5	EA
(4) Sealing I	Material			
NBR (Buna-	N®) (standar	rd)		В
FKM (Viton	®)			v
(5) Design (Code			
Only for inf	ormation			х



Heated Offline Filters - Type OLSH

Product Description

STAUFF System Units are characterized by their pre-heating unit and extremely efficient filter elements with a fineness of 0,5 micron.

Specially designed for industrial hydraulic installations, the STAUFF Offline Filters are available in single or multiple housing 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 70 % of the mechanical failures are caused by contamination in the system. The STAUFF Offline Filters attack this contamination at the source. In addition to solid particles, these filters are also capable of removing water from the oil. This prevents the catalytic reaction of water and solid particle contamination, resulting in extended usable of life.

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

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

Heated Offline Filters

The electric pre-heating ensures that the cold and/or high viscosity fluid is brought to a temperature with a suitable filtration viscosity. Offline Filters with pre-heating can be applied to new or existing installations. The integrated pump-motor combination draws fluid from the reservoir, pumps it through a heating element, filters the fluid and returns it to the reservoir.

Advantages

- Extremely clean oil due to the high filtration efficiency $\beta_{_{0,5}}\!\geq\!200,\,\beta_{_2}\!\geq\!2330$
- 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



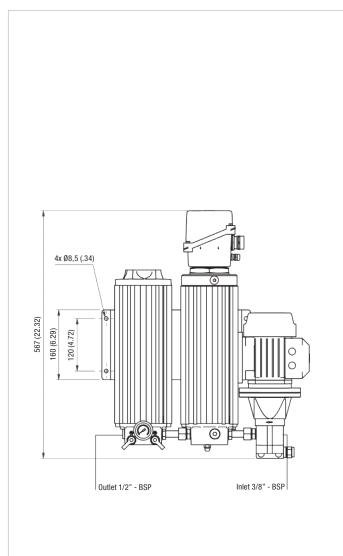


Heated Offline Filters - Type OLSH

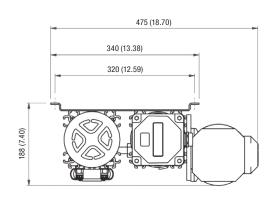
Dimensions OLSH-1-30-H-B

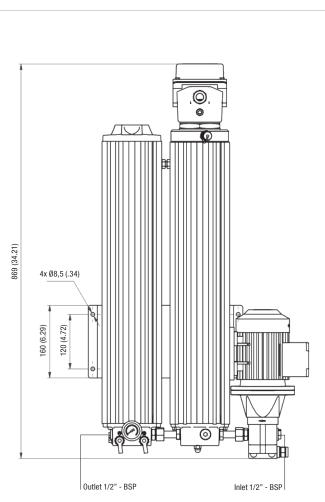
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Dimensions OLSH-1-60-H-B

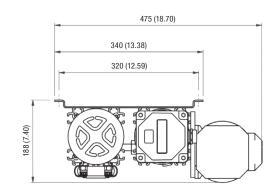








Top View



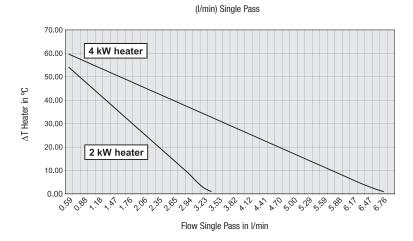


Heated Offline Filters - Type OLSH

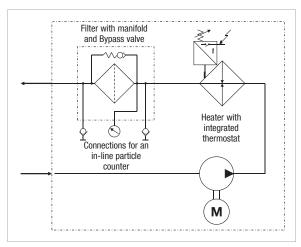
Technical Data Heated Offline Filters

	0LSH-1-30-H-B	0LSH-1-60-H-B
Number of Filter Housings	1	1
Nominal Flow	2,1 I/min .6 US GPM	4,2 l/min 1.2 US GPM
Max. Differential Pressure	6,2 bar 90 PSI	
Max. Fluid Temperature	+80 °C +176 °F	
Max. Housing Pressure	20 bar 290 PSI	
Heater Capacity	2 kW	
Connection Suction Side	G3/8	G1/2
Connection Return Side	G1/2	G1/2
Hose Diameter	1/2 in (inner diameter) flexible hose	3/4 in (inner diameter) flexible hose
Weight (including Element)	24 kg 44 lbs	28 kg 62 lbs
Max. System Volume	1350 l 356 gal	2700 l 713 gal
Dimensions H x W x D	567 x 475 x 188 mm 22.32 x 18.70 x 7.40 in	869 x 475 x 188 mm 34.21 x 18.70 x 7.40 in
Connection for Online Particle Counter	STAUFF Test (M16 x 2)	STAUFF Test (M16 x 2)
Pump	Gear Pump	
Motor	See page 196 for electric motor details	
Connection Oil-Analysis: P1 filter inlet side P2 filter outlet side	Test connector (M16 x 2) Red Test connector (M16 x 2) Yellow	

STAUFF Heating Efficiency Curve



Heated Unit Hydraulic Schematic



STAUFF[®]

Heated Offline Filter Housings / Complete Filters - Type OLSH

OLS	SH _ 1	1 - 1	30 - H -	B - A	_ 0	0 - V - O	
					- 0		
(1)		$\hat{\boldsymbol{z}}$	3 4	5 6	($\overline{\mathcal{I}}$ $(\overline{8}$ $(\overline{9})$	
(1) Туре			(5) Sealing Material			(8) Clogging Indicator	
Heated Offline Filter Unit		OLSH	NBR (Buna-N®) (standard)		В	Visual clogging indicator	
(for industrial applications)			FKM (Viton®)		V	nodal clogging maloator	
A set of the set of th			()			(9) Mounting Options	
(2) Housing Configuration			6 E-Motor Options			No options (standard)	
Single housing		1	Туре		Code	,	
0 0			230/400 V AC, 50 Hz, three	e phases, 1360 r/min			
③ Filter Element Length			255/460 V AC, 60 Hz, three	e phases, 1630 r/min	Α		
300 mm / 11.81 in		30	(50 Hz and 60 Hz standard)			
600 mm / 23.62 in		60	230 V AC, 50 Hz, single pha	ase	G		
			230/400 V AC, 50 Hz, three	e phases, IP65	A-IP65		
④ Filter Material			230 V AC, 60 Hz, single ph	ase, 1630 r/min	н		
Material	Micron Rating µm	Code	Note: Consistent and an an				
Cellulose (standard)	0,5	Н	Note: Special motors on re-	quest.			
Inorg. glass fibre	1	E-01					
Inorg. glass fibre	3	E-03	Pump Options				
Inorg. glass fibre	5	E-05	Standard for 50 Hz Motor	Standard for	Code		
Inorg. glass fibre	10	E-10	1,6 cc/rev.	0LSH-1-30-H-B	00		
Inorg. glass fibre	20	E-20	3,15 cc/rev.	0LSH-1-60-H-B	10		
Inorg. glass fibre and polymer (water absorption)	5	EA	1.0 cc / rev.		60		
			60 Hz Motor	Standard in	Code		
			1,25 cc / rev.	0LSH-1-30-H-B	01		
			2,5 cc / rev.	0LSH-1-60-H-B	11		

Filter Elements • Type SRM

	SR	M - 30 - H	- B	/]	<
	(1) (4)	Ċ	
1) Туре		③ Filter Material and Micro	n Rating		④ Sealin
Filter Element Series	SRM	Material	Micron rating µm	Code	NBR (Bu FKM (Vi
2) Filter Element Length		Cellulose (standard)	0,5	Н	
300 mm / 11.81 in	30	Inorg. glass fibre	1	E-01	5 Desig
600 mm / 23.62 in	60	Inorg. glass fibre	3	E-03	Only for
		Inorg. glass fibre	5	E-05	
		Inorg. glass fibre	10	E-10	

Inorg. glass fibre

Inorg. glass fibre and polymer (water absorption)

(4) Sealing Material

	NBR (Buna-N®) (standard)	В
	FKM (Viton®)	۷
(5)	Design Code	
Ŭ	Only for information	Х

G



20

5

E-20

EA



Bypass Filters • Type BPS

Description

STAUFF BPS Bypass Filter can be used for OEM first fit applications as well as for retro-fitting. The filtration is done in a bypass configuration from the main hydraulic system.

The STAUFF BPS Filter Systems are available with one filter housing (BPS-1A, maximum flow 2,1 I/min / .6 US GPM) or with two filter housings (BPS-2A, maximum flow 4,2 I/min / 1.1 US GPM) at a viscosity between 20 ... 160 cSt. The STAUFF Bypass Filter Units are especially designed for mobile applications in hydraulic and/or transmission systems.

In the absence of a pumped system, the oil is drawn from the main system by means of a specially designed and integrated flow valve. The amount of oil extracted at any time is insignificant therefore ensuring that it will not affect the working of the main system. Most commonly used biodegradable oils in the mobile sector are suitable for filtration with STAUFF Filter Elements.

STAUFF Systems have been applied on a wide range of mobile hydraulic machinery, cleaning fluids to levels not previously possible with conventional filtration methods, resulting in dramatic increases in component life.

Material

Housing: Anodized Aluminium

Differential Pressure

Max. 6,2 bar / 90 PSI

Temperature Range

Max. +80 °C / +176 °F media temperature

Media Compatibility

Mineral and lubrication oils, others on request

Options and Accessories (only for BPS)

Clogging Indicators

Visual clogging indicators

Valves

- Available with flow control valve



Type BPS

- Bypass filter units are especially designed for mobile applications in hydraulic and/or transmission systems
 No special motor-pump unit is required
- Housing pressure: max
- Nominal flow rate:
- System volume:
- Connections:Pressure range:
 - Fressure range.
- max. 20 bar / 290 PSI max. 4,2 l/min / 1.1 US GPM max. 1350 l / 356 gal
- G1/4, G1/2
- 12 ... 420 bar / 180 ... 6200 PSI



Type BPS

- Bypass filter units are especially designed for mobile
- applications in hydraulic and/or transmission systems No special motor-pump unit is required
- Housing pressure:Nominal flow rate:
- System volume:
- Connections:
- Pressure range:
- max. 20 bar / 290 PSI max. 4,2 l/min / 1.1 US GPM
 - max. 2700 I / 713 gal G1/4, G1/2
 - 12 ... 420 bar / 180 ... 6200 PSI

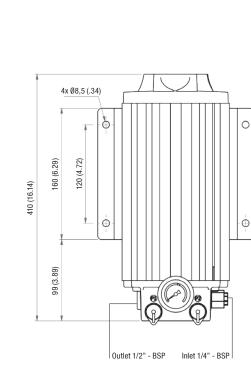
www.stauff.com/9/en/#199

Bypass Filters • Type BPS

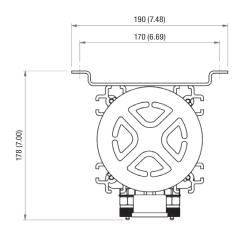
Dimensions BPS-1-30-H-B

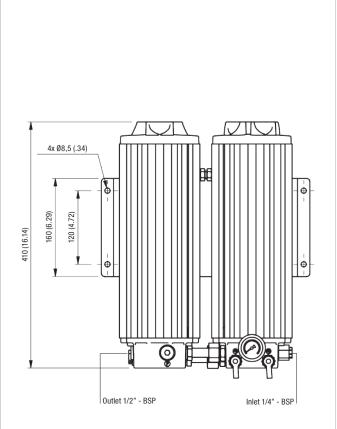


Dimensions BPS-2-30-H-B

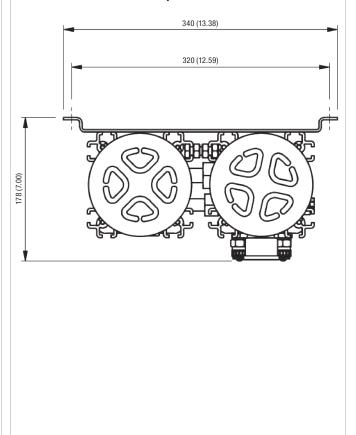


Top View





Top View



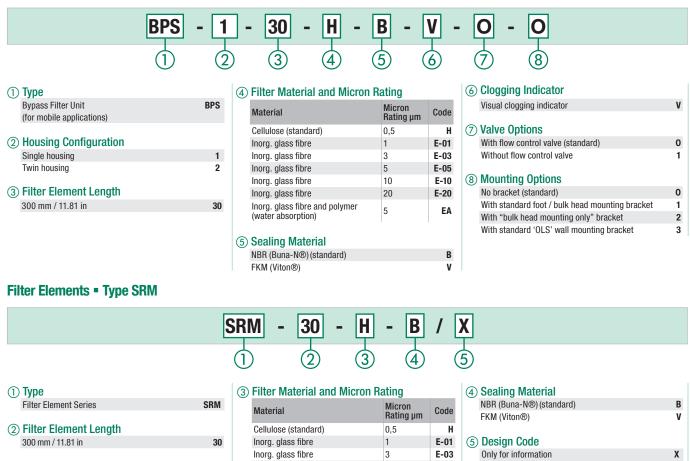


Bypass Filters • Type BPS

Technical Data BPS

	BPS-1-30-H-B	BPS-2-30-H-B				
Number of Filter Housings	1	2				
Nominal Flow Rate	2,1 I/min	4,2 l/min				
Nominal Flow hate	.6 US GPM	1.1 US GPM				
Max. Differential Pressure	6,2 bar over the filter element without back pressure					
Max. Differential Fressure	90 PSI over the filter element without back pressure					
Max. Fluid Temperature	−°08+					
max. I luiu temperature	+176 °F					
Max. Housing Pressure	20 bar					
	290 PSI					
Viscosity Range	20 160 cSt					
	100 750 SUS					
Connection Pressure Side	G1/4					
Connection Return Side	G1/2					
Hose Diameter	3/8 1/2 in (inner diameter) flexible hose					
Weight (including Element)	6 kg	13 kg				
Weight (molduling Element)	13.2 lbs	28.7 lbs				
Max. System Volume	750	1500 l				
Max. System volume	200 gal	400 gal				
Dimensions	410 x 190 x 178 mm	410 x 340 x 178 mm				
H x W x D	16.14 x 7.48 x 7.00 in	16.14 x 13.38 x 7.00 in				
Connection for On-Line Particle Counter	STAUFF Test (M16 x 2)					
Procesure Pango	12 420 bar					
Pressure Range	180 6200 PSI					
Connection Oil-Analysis: P1 filter inlet side P2 filter outlet side	Test connector (M16 x 2) Red					
	180 6200 PSI					

Bypass Filter Housings / Complete Filters - Type BPS



5

10

20

5

E-05

E-10

E-20

EA

Inorg. glass fibre

Inorg. glass fibre

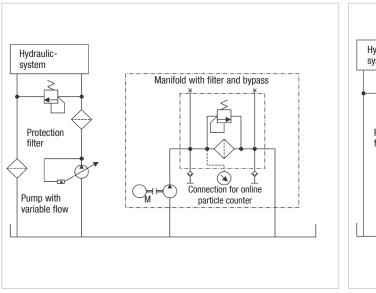
Inorg. glass fibre

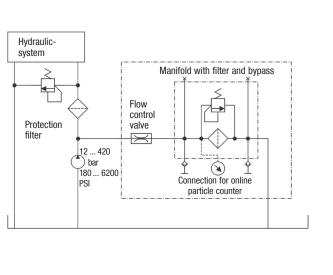
Inorg. glass fibre and polymer (water absorption)



Bypass and Offline Filters - Type OLS / BPS

Offline Filter OLS Hydraulic Symbol

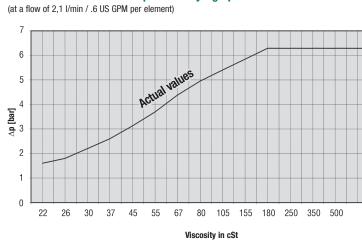




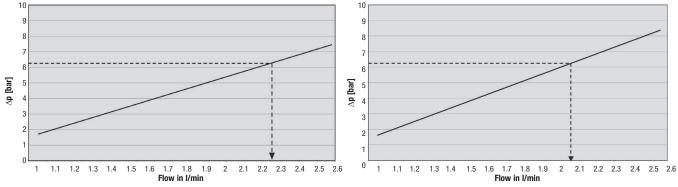
Bypass Filter BPS Hydraulic Symbol

G

Filter Element SRM-30-HB Δp / viscosity - graph





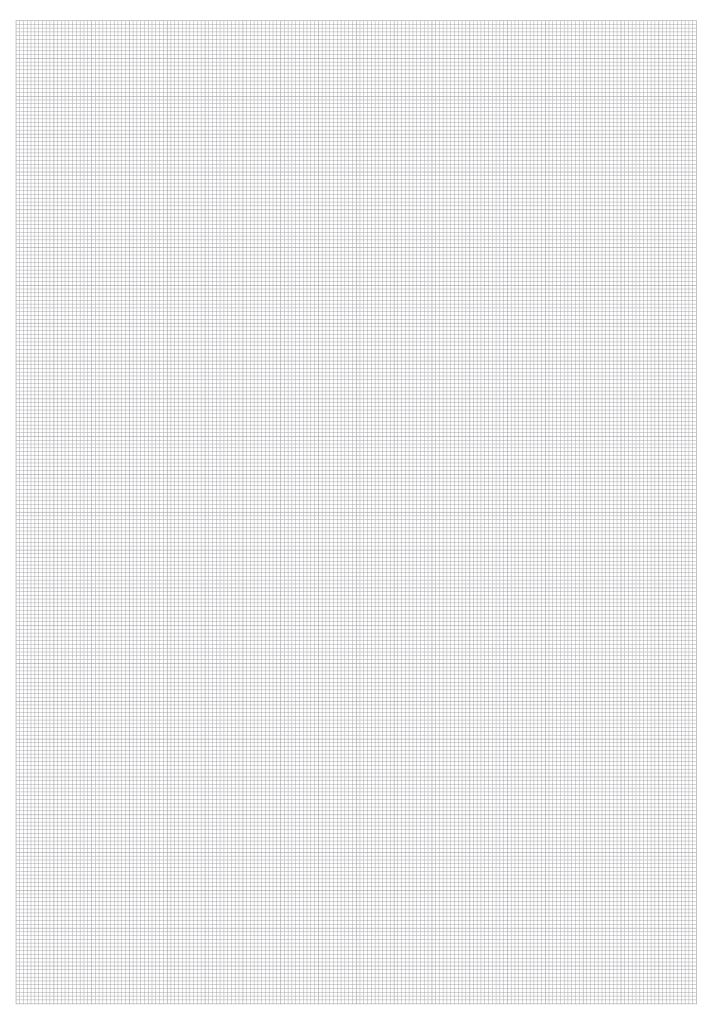


Flow Characteristics Bypass Filter BPS with Filter Element SRM-30-H-B (at maximum viscosity)











Mini Water Vac - Type SMWV



Product Description

The Mini Water Vac is a designated oil purification unit which can be applied directly to various types of machine reservoirs. It dehydrates and cleans most types of oils such as lubricating, hydraulic, transformer, and switch oils. The Mini Water Vac is a self-regulating filtration unit which removes particles, gas, and water. The purified oil satisfies the most stringent quality requirements.

The Mini Water Vac neither removes or alters oil additives. The water removal process is based on pure vacuum evaporation inside a vacuum chamber at a maximum temperature of +65 °C / +149 °F. Solid particle removal is achieved through a well proven STAUFF Systems Micro Filter.

Simple Operation

The Mini Water Vac does not require continuous supervision while operating. Once the unit is connected and commissioned, oil purification is a semi-automatic process. Desired oil temperature can be selected via the integrated heater thermostat. The dehydration and filtering process is fully automatic and is controlled via the PLC. The only manual action required is the emptying the pre-condenser bowl and the waste water container which are equipped with float switches to prevent overflow.

Water, Gas and Particle Removal

The Mini Water Vac removes liquid, gas, and solid particle contamination, which are corrosive and contribute to the reduction of machine life. Contamination greatly increases maintenance costs and contribute to breakdowns and total machine failures. The Mini Water Vac offers protection against malfunctions, breakdowns or total failures. The Mini Water Vac also protects the environment by reducing oil consumption and oil disposal.

Benefits

- Efficient water, gas and particle removal
- Extension of fluid life
- Reduces fluid disposal
- Minimizes corrosion
- Reduced failures and downtime
- Reduce operating costs

Technical Data

Construction

G

SMWV-1-30:

Materials

- Filter housing
- Vacuum chamber Eloxated Aluminium
 Heater chamber Eloxated Aluminium
- Heater chamber

Port Connections

- Inlet G1
 Outlet G1/2
- Online particle counter STAUFF Test (M16x2)

Max. System Volume

30001/795 gal

Recirculating Flow Rate

90 l/h / 23.8 gal/hr

Max. Backpressure

1 bar / 14.5 PSI

Max. Heater Temperature +65 °C / +149 °F

- Filter Element
- 1 micron inorganic glass fibre element $\beta_1 > 200$

Media Compatibility

- Viscosity between 20 ... 500 cSt
- Max. attainable water content 100 ppm

www.stauff.com/9/en/#204



- Dimensions
- 1200 x 740 x 450 mm / 47.3 x 29.1 x 17.7 in

230/400 V AC, 50 Hz 255/460 V AC, 50 Hz

0,037 kW vacuum pump

3 phases

2 kW

3 Amps

Weight

130 kg / 287 lbs

Electrical Data

- Voltage
- Power supply
- Heater section
- Vacuum section
- Max. current

Process Control

PLC unit

Mini Water Vac Vacuum Dehydration Unit one filter housing

Eloxated Aluminium



Mini Water Vac • Type SMWV

Dimensions SMWV-1

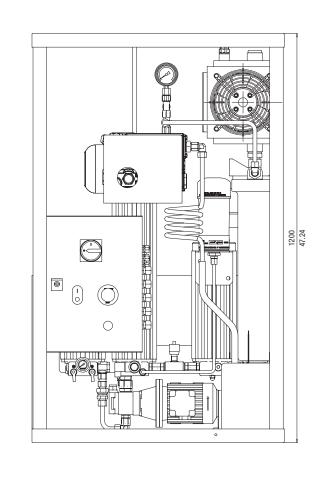
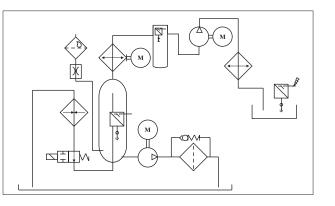
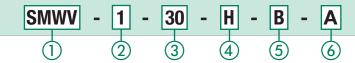


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Schematic



Mini Water Vac • Type SMWV



1) Туре	
Mini Water Vac Oil Purifier	SMWV
(for industrial applications)	
② Housing Configuration	
Single housing	1
③ Filter Element Length	
300 mm / 11.81 in	30

\sim		5	
	Material	Micron Rating µm	Code
	Cellulose (standard)	0,5	Н
	Inorg. glass fibre	1	E-01
	Inorg. glass fibre	3	E-03
	Inorg. glass fibre	5	E-05
	Inorg. glass fibre	10	E-10
	Inorg. glass fibre	20	E-20
	Inorg. glass fibre and polymer (water absorption)	5	EA
5	Sealing Material		
	NBR (Buna-N®) (standard)		В
	FKM (Viton®)		V

(6) E-motor Options

) E-motor Uptions	
Туре	Code
230/400 V AC, 50 Hz, three phases, 1360 r/min 255/460 V AC, 60 Hz, three phases, 1630 r/min	Α

LubeTeam Hydraulic S.r.l. Administration and Headquarter: Via Tufara Scautieri, 6 83018 - San Martino Valle Caudina (AV) Office and Warehouse: S.S. 7 Appia, Km. 237,00 82011 - Airola BN ITALY

Tel. +39 0823 950 994 Fax +39 0823 412 546

www.lubeteam.it info@lubeteam.it

Italian VAT / C.F. e P.IVA: 01251720627







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