



STAUFF

Filters

Offline and Bypass filters

BPS



HYDRAULIC
COMPONENTS
& FLUID CONTAMINATION
CONTROL



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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 l/min / .6 US GPM) or with two filter housings (BPS-2A, maximum flow 4,2 l/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.



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. 20 bar / 290 PSI
- Nominal flow rate: max. 4,2 l/min / 1.1 US GPM
- System volume: max. 1350 l / 356 gal
- Connections: G1/4, G1/2
- Pressure range: 12 ... 420 bar / 180 ... 6200 PSI

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



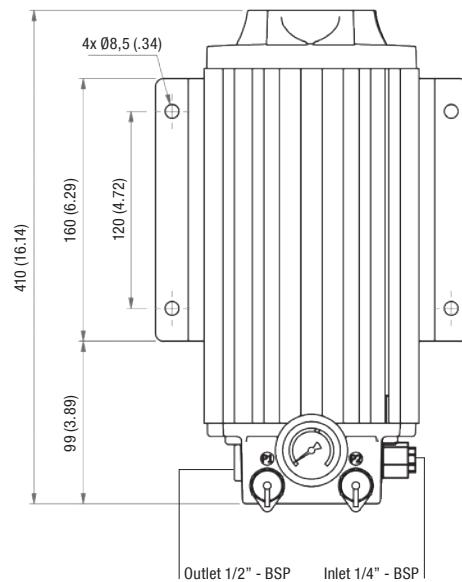
Type BPS

- 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. 20 bar / 290 PSI
- Nominal flow rate: max. 4,2 l/min / 1.1 US GPM
- System volume: max. 2700 l / 713 gal
- Connections: G1/4, G1/2
- Pressure range: 12 ... 420 bar / 180 ... 6200 PSI



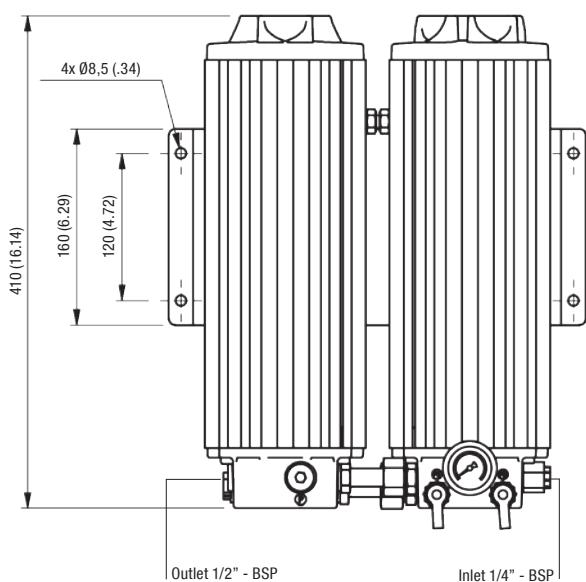
Bypass Filters ▪ Type BPS

Dimensions BPS-1-30-H-B

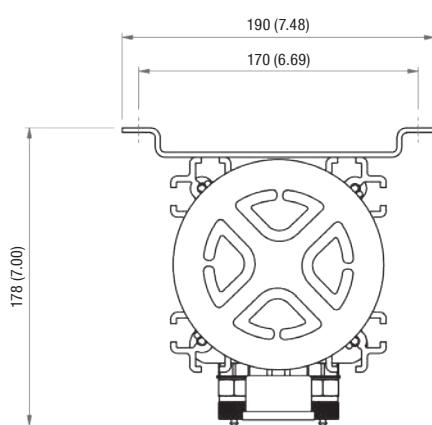


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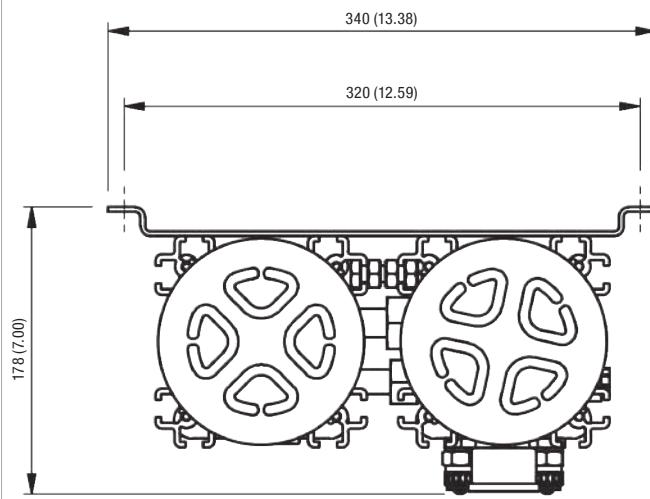
Dimensions BPS-2-30-H-B



Top View



Top View



All dimensions in mm / in



Technical Data BPS

	BPS-1-30-H-B	BPS-2-30-H-B
Number of Filter Housings	1	2
Nominal Flow Rate	2,1 l/min .6 US GPM	4,2 l/min 1.1 US GPM
Max. Differential Pressure	6,2 bar over the filter element without back pressure 90 PSI over the filter element without back pressure	
Max. Fluid Temperature	+80 °C +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 13.2 lbs	13 kg 28.7 lbs
Max. System Volume	750 l 200 gal	1500 l 400 gal
Dimensions H x W x D	410 x 190 x 178 mm 16.14 x 7.48 x 7.00 in	410 x 340 x 178 mm 16.14 x 13.38 x 7.00 in
Connection for On-Line Particle Counter	STAUFF Test (M16 x 2)	
Pressure Range	12 ... 420 bar 180 ... 6200 PSI	
Connection Oil-Analysis: P1 filter inlet side P2 filter outlet side	Test connector (M16 x 2) Red Test connector (M16 x 2) Yellow	

Bypass Filter Housings / Complete Filters ▪ Type BPS

BPS - 1 - 30 - H - B - V - O - O							
1	2	3	4	5	6	7	8
① Type Bypass Filter Unit (for mobile applications)	BPS	④ Filter Material and Micron Rating	Material	Micron Rating µm	Code	⑥ Clogging Indicator Visual clogging indicator	V
② Housing Configuration Single housing	1	Cellulose (standard)	0,5	H		With flow control valve (standard)	0
Twin housing	2	Inorg. glass fibre	1	E-01		Without flow control valve	1
③ Filter Element Length 300 mm / 11.81 in	30	Inorg. glass fibre	3	E-03		⑧ Mounting Options	
		Inorg. glass fibre	5	E-05		No bracket (standard)	0
		Inorg. glass fibre	10	E-10		With standard foot / bulk head mounting bracket	1
		Inorg. glass fibre	20	E-20		With "bulk head mounting only" bracket	2
		Inorg. glass fibre and polymer (water absorption)	5	EA		With standard 'OLS' wall mounting bracket	3
⑤ Sealing Material NBR (Buna-N®) (standard) FKM (Viton®)		B	V				

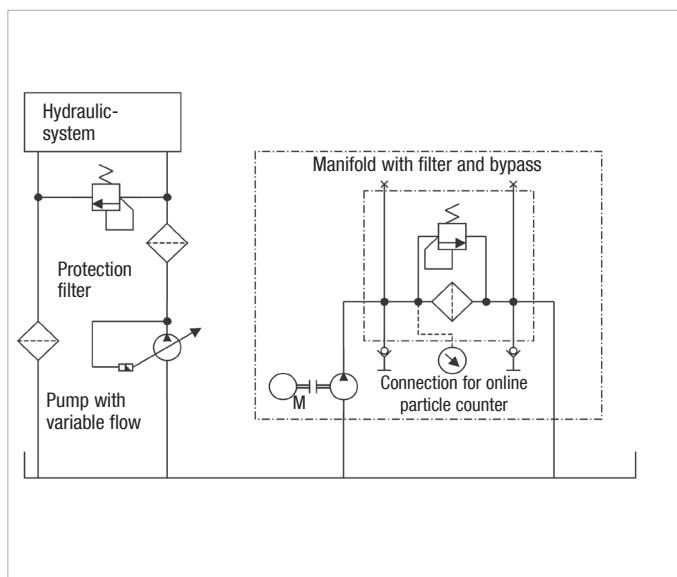
Filter Elements ▪ Type SRM

SRM - 30 - H - B / X				
1	2	3	4	5
① Type Filter Element Series	SRM	③ Filter Material and Micron Rating	Material	Micron Rating µm
② Filter Element Length 300 mm / 11.81 in	30	Cellulose (standard)	0,5	H
		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
④ Sealing Material NBR (Buna-N®) (standard) FKM (Viton®)		B	V	⑤ Design Code Only for information
				X

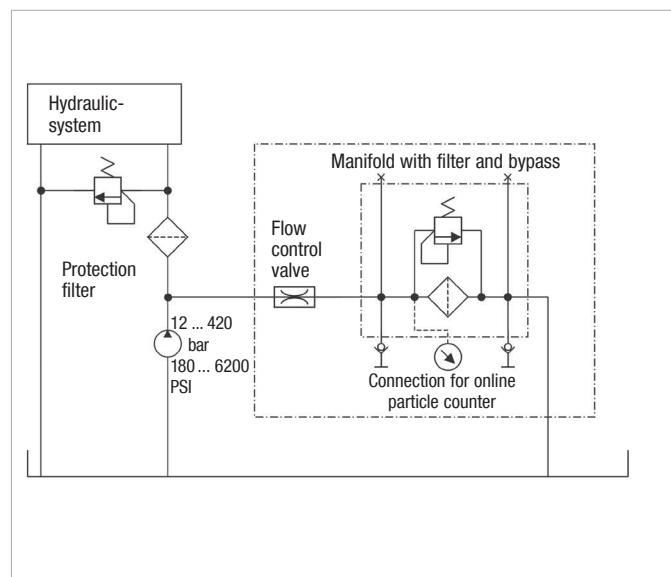


Bypass and Offline Filters ▪ Type OLS / BPS

Offline Filter OLS Hydraulic Symbol



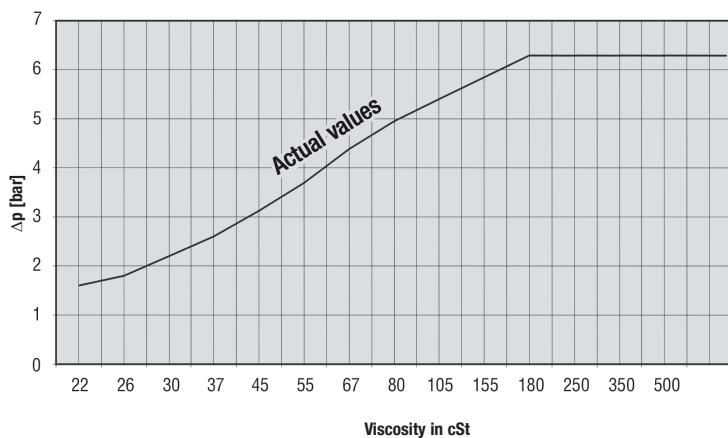
Bypass Filter BPS Hydraulic Symbol



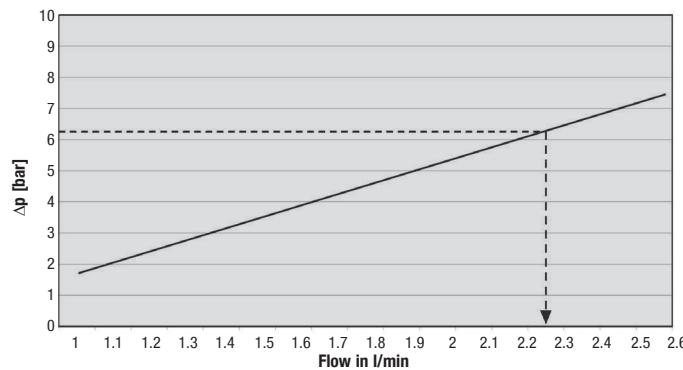
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Filter Element SRM-30-HB Δp / viscosity - graph

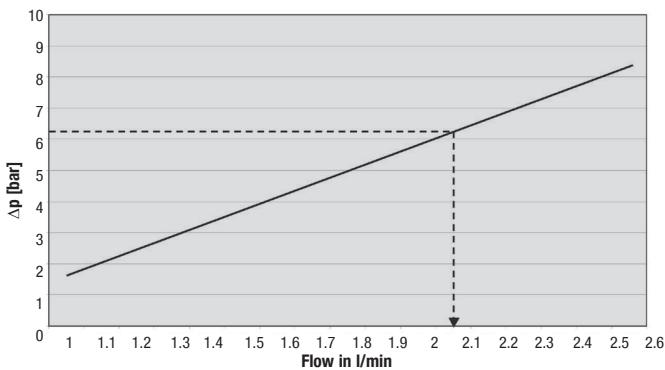
(at a flow of 2,1 l/min / .6 US GPM per element)



Flow Characteristics Offline Filter OLS with Filter Element SRM-30-H-B (at maximum viscosity)



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



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