



Local Solutions For Individual Customers Worldwide



Mobile Filtration Systems SMFS-P and SMFS-U

Product Catalogue



STAUFF Filtration Technology offers a complete range of filtration products and services. This will provide the system designer or user with the highest level of contamination control demanded by today's most sophisticated applications.

STAUFF Filtration Technology Products include Pressure Filters, Return Line Filters, Replacement Filter Elements, Spin-On Filters, Suction Strainers and Filler Breathers for various hydraulic, lubrication and fuel oils.

STAUFF has the technical expertise to provide superior filter element designs for the STAUFF original filter housings and also for the interchange element market.

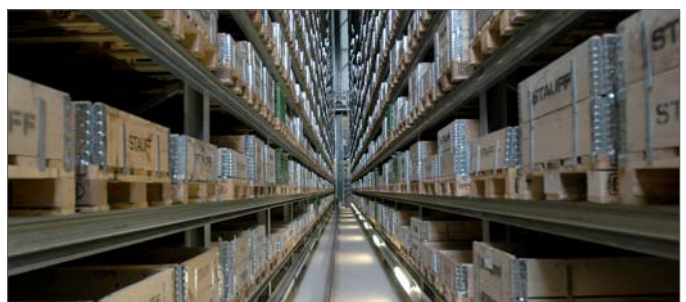
STAUFF manufactures more than 10000 different elements. Many of these are designed to fit into filter housings produced by other companies while maintaining or surpassing the original performance.

A well-stocked warehouse guarantees the possibility of short-term arrangements without their own storage. Therefore, we can react flexible for your specific needs.

The "STAUFF Contamination Control Program" comprised the diagnostic services including fluid sampling and laser particle counting products for monitoring the system contamination level. In addition STAUFF offers a range of software solutions for element interchange and filter calculation. All products are subject to the audits in reference to international standards. This ensures a consistently high standard of quality.

Please do not hesitate to contact STAUFF for further details.

www.stauff.com
www.filtersuche.de



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Mobile Filtration System ■ Type SMFS-P-015



Product Description

The SMFS-P-015 supplement the range of STAUFF products, which is a portable hand-held Mobile Filtration System. Due to its compact and light-weight design, it can be used very flexible and consistently provides best filtration performance at the same time.

Technical Data

Dimensions and Weight

- W x D x H: 250 x 450 x 485 mm / 9.84 x 17.71 x 19.09 in
- Weight: approx. 23 kg / 51 lbs

Media Compatibility

- Suitable for mineral oils, other fluids on request

Flow

- 15 l/min / 4 US GPM

Temperature

- Media temp.: -15 °C ... +50 °C / +5 °F ... +122 °F
- Ambient temp.: -20 °C ... +50 °C / -4 °F ... +122 °F

Viscosity

- Admissible: 10 ... 400 mm²/sec / 10 ... 400 cSt
- Recommended: 25 mm²/sec / 25 cSt

Pressure

- Operating Pressure: 2 bar / 29 PSI
- Bypass opening pressure (integrated in pump):
3 bar / 43,5 PSI
- Test pressure: 12 bar / 174 PSI

Framework

- Material: phosphated and epoxy-coated Steel

Hoses

- Material: PVC, reinforced with internal wire wrapping
- Length: 1,5 m / 4.92 ft on the suction side and 2 m / 6.56 ft on the pressure side
- Dimensions
 - on suction side: DN 13
 - on pressure side: DN 113
- On suction side with integrated coarse filter (Stainless Steel sieve 0,2 µm)

Pump

- Gear pump

Motors

- 230V: CE-certified motor unit (230 VAC @ 50 Hz - 1 phase) with Schuko-plug according to CEE 7/7 (Association of plug type E and Schuko (type EF))
- 400V: CE-certified motor unit (400 VAC @ 50 Hz - 3 phases) with plug CEE 16A 3P+N+G
- IP 55 protection rating: Dust protected and protected against water jets

Options and Accessories

Replacement Filter Elements

- Filter Elements of the Spin-On series SFC-35/36
- Micron rating available from 3 ... 125 µm
- Also available with a blank filter element (SFC-3500) for the reason of used oil to be removed from the hydraulic reservoir

Clogging Indicator

- Visual Pressure Clogging Indicator Type SIM 04

Lance

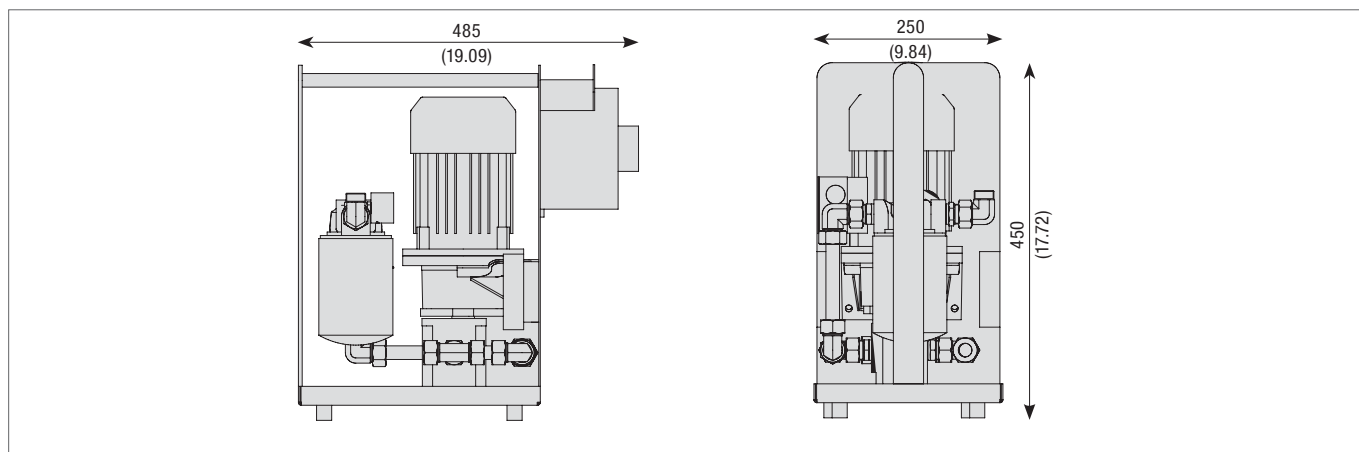
- Available length 150 mm / 5.91 in

Hose

- Available lengths:
 - 1,5 m / 4.92 ft incl. ports
 - 2 m / 6.56 ft incl. ports

Mobile Filtration System ■ Type SMFS-P-015

Dimensions



Order Codes

SMFS - P - 015 - G - 3510AE - B - M - E - L1																																									
1	2	3	4	5	6	7	8	9																																	
1 Series Mobile Filtration SystemSMFS			5 Filter Elements SFC... <table><tr><th>Filter Elements</th><th>Length (mm/in)</th><th>Code</th></tr><tr><td>Without Filter Elements</td><td></td><td>3500</td></tr><tr><td>Inorganic Glass Fibre 3 µm</td><td>145 / 5.7</td><td>3503AE</td></tr><tr><td>Inorganic Glass Fibre 3 µm</td><td>190 / 7.5</td><td>3603AE</td></tr><tr><td>Inorganic Glass Fibre 10 µm</td><td>145 / 5.7</td><td>3510AE</td></tr><tr><td>Inorganic Glass Fibre 10 µm</td><td>190 / 7.5</td><td>3610AE</td></tr><tr><td>Wire Mesh 60 µm</td><td>145 / 5.7</td><td>3560E</td></tr><tr><td>Wire Mesh 60 µm</td><td>190 / 7.5</td><td>3660E</td></tr><tr><td>Brass Mesh 125 µm</td><td>145 / 5.7</td><td>35125E</td></tr><tr><td>Brass Mesh 125 µm</td><td>190 / 7.5</td><td>36125E</td></tr></table>			Filter Elements	Length (mm/in)	Code	Without Filter Elements		3500	Inorganic Glass Fibre 3 µm	145 / 5.7	3503AE	Inorganic Glass Fibre 3 µm	190 / 7.5	3603AE	Inorganic Glass Fibre 10 µm	145 / 5.7	3510AE	Inorganic Glass Fibre 10 µm	190 / 7.5	3610AE	Wire Mesh 60 µm	145 / 5.7	3560E	Wire Mesh 60 µm	190 / 7.5	3660E	Brass Mesh 125 µm	145 / 5.7	35125E	Brass Mesh 125 µm	190 / 7.5	36125E	6 Sealing Material NBR (Buna-N®)B			7 Clogging Indicator Visual Pressure Clogging Indicator SIM 04M		
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2 Type Portable unitP			8 Motor Configuration 230 V / 50 HZ / 1 phase (standard)E 400 V / 50 HZ / 3 phasesF			9 Lance 150 mm / 5.9 inL1																																			
3 Flow 15 l/min / 4 US GPM015																																									
4 Pump Gear pumpG																																									

Filter Elements ■ Type SFC-35/36

Product Description

STAUFF Replacement Filter Elements SFC-35/36 for use with STAUFF Mobile Filtration System SMFS-P-015. For further information and technical data on Replacement Filter Elements please see our general product catalogue STAUFF ONE, section Filtration Technology.

Order Codes

SFC - 3510E	
1	2

1 Series Filter Element Series SFC																																
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Mobile Filtration System ■ Type SMFS-U-030



Product Description

The SMFS-U-030 is a Mobile Filtration System mounted on a robust Steel frame push cart, which means the perfect compromise between flexibility on the one hand and highest nominal flow rates on the other hand.

Technical Data

Dimensions and Weight

- W x D x H: 620 x 610 x 1125 mm / 24.41 x 24.02 x 44.29 in
- Weight: approx. 46 kg / 101 lbs

Media Compatibility

- Suitable for mineral oils, other fluids on request

Flow

- 30 l/min / 7.5 US GPM

Temperature

- Media temp.: -15 °C ... +50 °C / +5 °F ... +122 °F
- Ambient temp.: -20 °C ... +50 °C / -4 °F ... +122 °F

Viscosity

- Admissible: 10 ... 400 mm²/sec / 10 ... 400 cSt
- Recommended: 25 mm²/sec / 25 cSt

Pressure

- Operating pressure: 2 bar / 29 PSI
- Bypass opening pressure (integrated in pump): 3 bar / 43.5 PSI
- Test pressure: 12 bar / 174 PSI

Framework

- Material: phosphated and epoxy-coated Steel
- Removable oil sump

Hoses

- Material: PVC, reinforced with internal wire wrapping
- Length: 2 x 3 m / 9.84 ft on the suction and pressure side
- Dimensions
 - on suction side: DN 16
 - on pressure side: DN 13
- On suction side with integrated coarse filter (Stainless Steel sieve 0,2 µm)

Pump

- Gear pump

Motors

- 230V: CE-certified motor unit (230 VAC @ 50 Hz - 1 phase) with Schuko-plug according to CEE 7/7 (Association of plug type E and Schuko (type EF))
- 400V: CE-certified motor unit (400 VAC @ 50 Hz - 3 phases) with plug CEE 16A 3P+N+G
- IP 55 protection rating: Dust protected and protected against water jets

Options and Accessories

Replacement Filter Elements

- Filter Elements of the Spin-On series SFC-57/58
- Micron rating available from 3 ... 125 µm
- Also available with a blank filter element (SFC-5700) for the reason of used oil to be removed from the hydraulic reservoir

Clogging Indicator

- Visual Pressure Clogging Indicator Type SIM 04

Lance

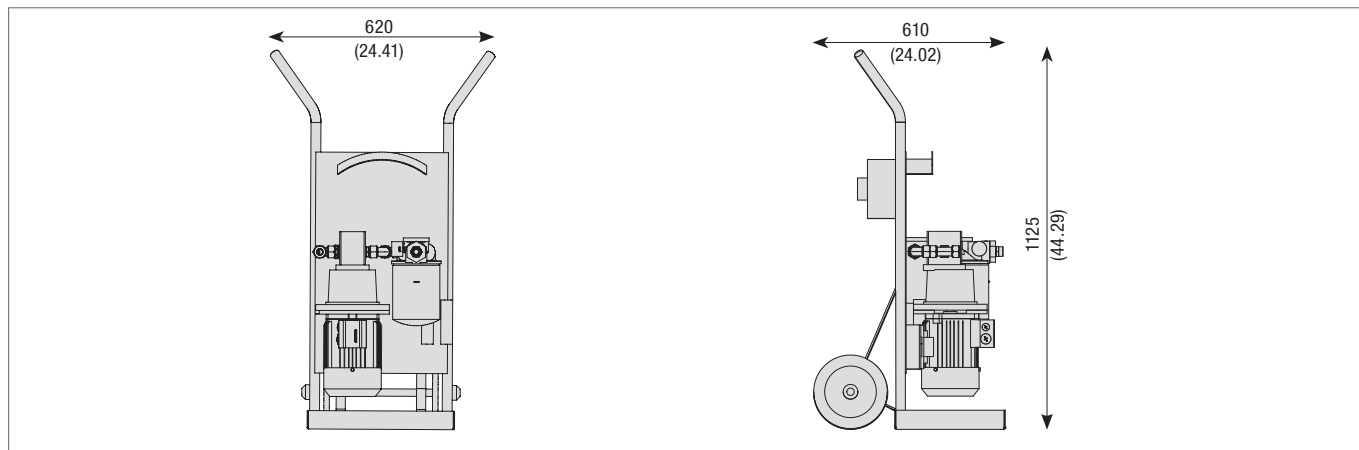
- Available length 650 mm / 25.59 in

Hose

- Available length: - 3 m / 9.84 ft incl. ports

Mobile Filtration System ■ Type SMFS-U-030

Dimensions



Order Codes

SMFS - U - 030 - G - 5710AE - B - M - E - L1																																						
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2 Type Mobile unit U			7 Clogging Indicator Visual Pressure Clogging Indicator SIM 04 M																																			
3 Flow 30 l/min / 7.5 US GPM 030			8 Motor Configuration 230 V / 50 HZ / 1 phase (standard) E 400 V / 50 HZ / 3 phases F																																			
4 Pump Gear pump G			9 Lance 650 mm / 25.59 in L1																																			

Filter Elements ■ Type SFC-57/58

Product Description

STAUFF Replacement Filter Elements SFC-57/58 for use with STAUFF Mobile Filtration System SMFS-U-030. For further information and technical data on Replacement Filter Elements please see our general product catalogue STAUFF ONE, section Filtration Technology.

Order Codes

SFC - 5710AE																																
1	2																															
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Mobile Filtration Systems ■ Types SMFS-U-060 / -110



SMFS-U-060



SMFS-U-110

Product Description

STAUFF manufactures a complete range of Mobile Filtration Systems. Compact in design and easy to operate on the one hand, but also made for permanent use with high flow rates on the other hand, Mobile Filtration Systems are essential tools for the preventive maintenance either to transfer new oil or to purify hydraulic and lubrication oil systems.

Technical Data

Dimensions and Weight

- W x D x H: 620 x 954 x 935 mm / 24.41 x 37.56 x 36.81 in
- Weight:
 - SMFS-U-060: approx. 87 kg / 192 lbs
 - SMFS-U-110: approx. 130 kg / 287 lbs

Media Compatibility

- Suitable for mineral oils, other fluids on request

Flow

- SMFS-U-060: 60 l/min / 15 US GPM
- SMFS-U-110: 110 l/min / 30 US GPM

Temperature

- Media temp.: -20 °C ... +60 °C / -4 °F ... +140 °F
- Ambient temp.: -20 °C ... +40 °C / -4 °F ... +104 °F

Viscosity

- Admissible: 12 ... 800 mm²/sec / 12 ... 800 cSt
- Recommended (at continuous exposure):
20 ... 100 mm²/sec / 20 ... 100 cSt

Pressure

- Operating pressure: max. 4 bar / max. 58 PSI
- Suction pressure: max. -0,4 bar / max. -6 PSI
- Bypass opening pressure (integrated in pump):
 - SMFS-U-060: 5 bar / 73 PSI
 - SMFS-U-110: 10 bar / 145 PSI
- Burst pressure
 - on suction side: 11 bar / 160 PSI
 - on pressure side: 15 bar / 218 PSI
- Test pressure: 24 bar / 348 PSI

Framework

- Material: phosphated and epoxy-coated Steel

Hoses

- Material: PVC, reinforced with internal wire wrapping
- Length: 3 m / 9.84 ft on the suction and pressure side
- Dimensions
 - on suction side: SMFS-U-060: DN 35
SMFS-U-110: DN 38
 - on pressure side: SMFS-U-060: DN 25
SMFS-U-110: DN 25

Pump

- Gear pump

Motors

- CE-certified motor unit (400 VAC @ 50 Hz - 3 phases)
- Power consumption:
 - SMFS-U-060: 0,75 kW
 - SMFS-U-110: 4 kW
- IP 55 protection rating: Dust protected and protected against water jets
- Plug CEE 16A 3P+N+G

Options and Accessories

Replacement Filter Elements

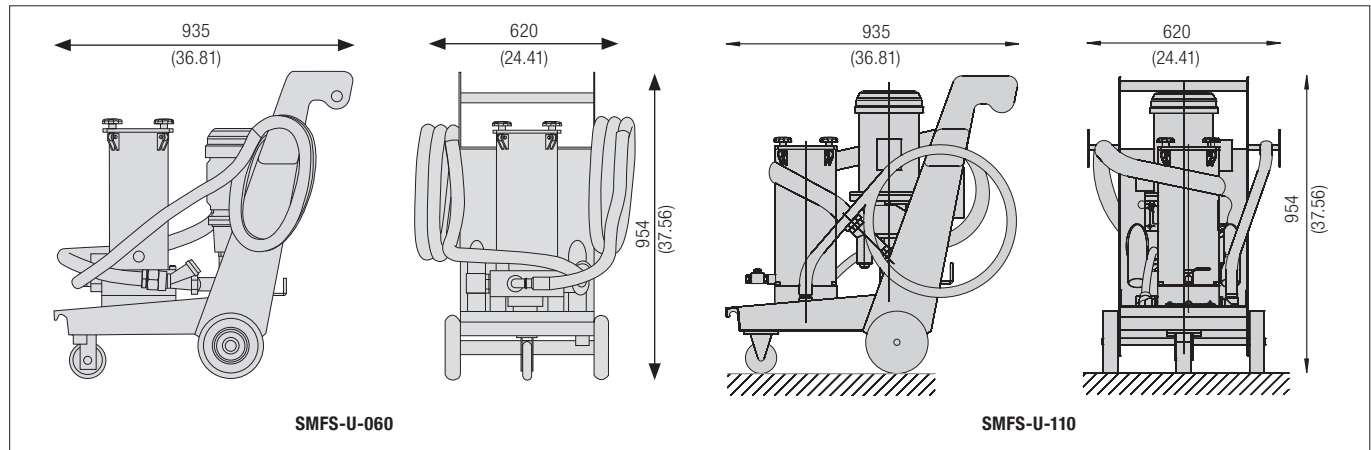
- Filter Elements of the Spin-On series NR-630
- Micron rating available from 3 ... 25 µm

Clogging Indicator

- Clogging Indicator Type HI

Mobile Filtration Systems ■ Types SMFS-U-060 / -110

Dimensions



Order Codes

SMFS - U - 060 - G - E10 - B - VT - F

1 2 3 4 5 6 7 8

1 Series

Mobile Filtration System **SMFS**

2 Type

Mobile unit **U**

3 Flow

60 l/min / 15 US GPM **060**
110 l/min / 30 US GPM **110**

4 Pump

Gear pump **G**

5 Filter Elements NR-630...

Filter Elements	Code
Without Filter Elements	...
Inorganic Glass Fibre 3 µm	E03
Inorganic Glass Fibre 6 µm	E06
Inorganic Glass Fibre 10 µm	E10
Inorganic Glass Fibre 16 µm	E16
Inorganic Glass Fibre 25 µm	E25

6 Sealing Material

NBR (Buna-N®) **B**
Other sealing materials on request.

7 Clogging Indicator

Without Clogging Indicator, with plug	0
Visual, automatic reset	A
Visual, manual reset	V
Visual, automatic reset and thermostop	AT
Visual, manual reset and thermostop	VT

8 Motor Configuration

400 V / 50 HZ / 3 phases **F**

Filter Elements ■ Type NR-630

Product Description

STAUFF Replacement Filter Elements NR-630 for use with STAUFF Mobile Filtration Systems SMFS-U-030 and SMFS-U-110. All STAUFF Inorganic Glass Fibre Filter Elements are designed to achieve β -value ≥ 200 at their rated micron rating. For further information and technical data on Replacement Filter Elements please see our general product catalogue STAUFF ONE, section Filtration Technology.

Order Codes

NR-630 E10 - B

1 2 3

1 Series

Filter Element Series **NR-630**

2 Filter Elements

Filter Elements	Code
Inorganic Glass Fibre 3 µm	E03
Inorganic Glass Fibre 6 µm	E06
Inorganic Glass Fibre 10 µm	E10
Inorganic Glass Fibre 16 µm	E16
Inorganic Glass Fibre 25 µm	E25

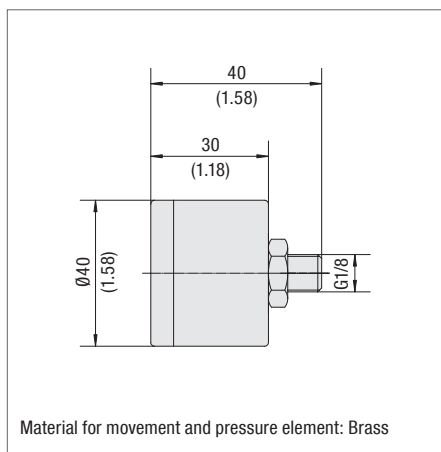
3 Sealing Material

NBR (Buna-N®) **B**
Other sealing materials on request.



Clogging Indicator ■ Type SIM-04

Visual Pressure Clogging Indicator



Product Description

The Clogging Indicator permits the visual monitoring of contamination of the filter element. Colored segments allow quick visual checking.

Technical Data

Connection Thread

■ G1/8

Unit of Scale

■ bar

Range of Scale

■ 0 ... 4 bar / 0 ... 58 PSI

Colored Segments

■ Green: 0 ... 2,5 bar / 0 ... 36.25 PSI
 ■ Yellow: 2,5 ... 3 bar / 36.25 ... 43.5 PSI
 ■ Red: 3 ... 4 bar / 43.5 ... 58 PSI

For further information and technical data on Clogging Indicators please see our general product catalogue STAUFF ONE, section Filtration Technology.

Order Codes

SMFS-P-Lanze - L1	
1	2
1 Type	STAUFF Lance SMFS-P-Lanze
2 Length	150 mm / 5.9 in L1

SMFS-U-Lanze - L1	
1	2
1 Type	STAUFF Lance SMFS-U-Lanze
2 Length	650 mm / 25.59 in L1

STAUFF Lance



Order Codes

SMFS-P-Set-Schlauch	
1	
1 Type	STAUFF Hose SMFS-P-Set-Schlauch
2 Length	1,5 m / 4.92 ft / 2 m / 6.56 ft incl. ports

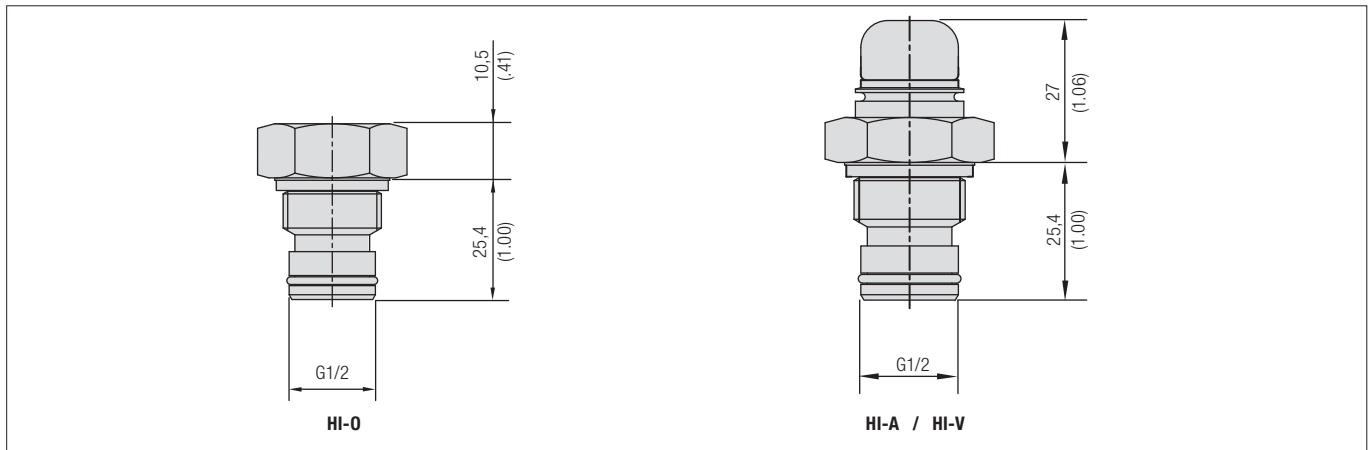
SMFS-U-Set-Schlauch	
1	
1 Type	STAUFF Hose SMFS-U-Set-Schlauch
2 Length	3 m / 9.84 ft incl. ports

STAUFF Hose



Clogging Indicator ▪ Type HI

Dimensions



Product Description

Clogging Indicators are available for STAUFF Mobile Filtration Systems SMFS-U-060 / -110. If no indicator is specified, the port is sealed by a plug (HI-O). The Clogging Indicators are actuated by the differential pressure across the element.

The special piston design minimizes the effects of peak pressures in the system. An optional thermostatic lockout (thermostop) is available to prevent false indication under cold start conditions. Fluid temperature must be at least +20 °C / +68 °F for the indicator to function.

Technical Data

Material

- Body: Stainless Steel
- Sealings: NBR (Buna-N®) (others on request)

Sealings

- Seal: 18,5 mm x 23,9 mm x 9x2 mm / .73 in x .94 x .08 in
- O-Ring: 15,5 mm x 1,5 mm / .61 in x .06 in

Thread

- G1/2

Differential Pressure

- Differential pressure setting: 2,5_{-0,5} bar / 36,3_{-7,25} PSI (others on request)

Configurations

The visual Clogging Indicators are available in the following configurations:

Manual Reset:

The indicators continues to display the clogged signal even through the Δp may have fallen. Pressing the plastic cover down will reset the indicator.

Automatic Reset:

The clogged signal will diappear when the Δp drops below the setting for the indicator.

For further information please see our general product catalogue STAUFF ONE, section Filtration Technology Technology

Order Codes

HI - O - T - B - 2,5B / X

1 2 3 4 5 6

1 Type

Clogging Indicator **HI**

2 Type of Indicator

Plug **O**
Visual, automatic reset **A**
Visual, manual reset **V**

3 Thermostop

Without thermostop **none**
With thermostop **T**

4 Sealing Material

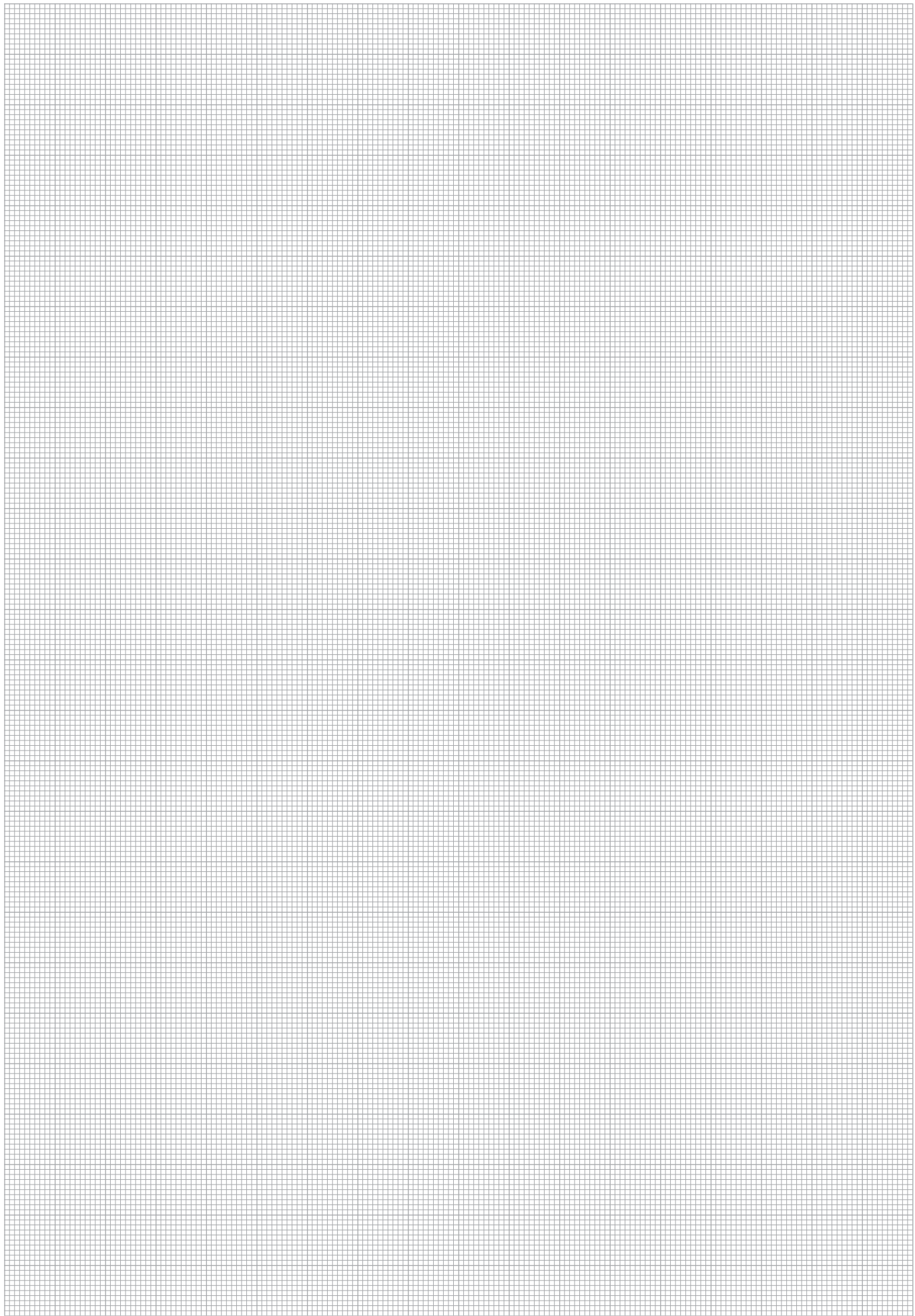
NBR (Buna-N®) (standard option) **B**
FPM (Viton®) **V**
EPDM **E**

5 Differential Pressure Setting

2,5 bar / 36,3 PSI (standard option) **2,5B**

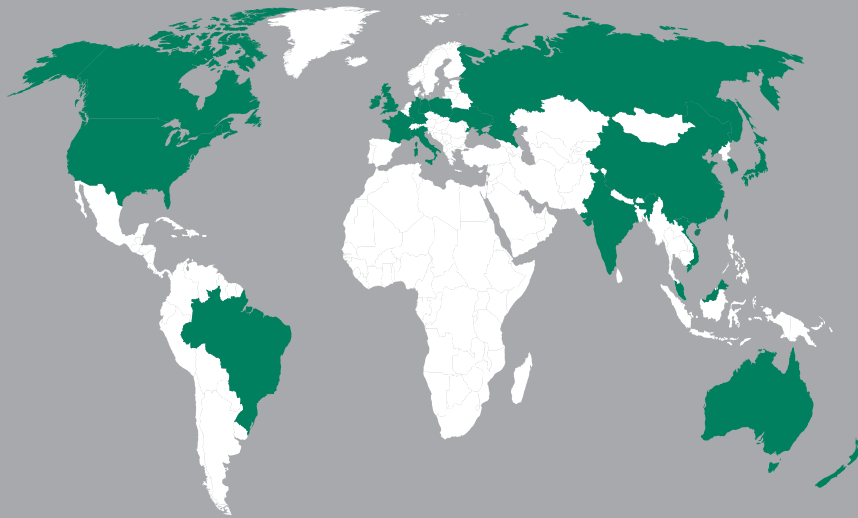
6 Design Code

Only for information **X**





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