

Local Solutions For Individual Customers Worldwide



**Mobile Filter 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, 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 qualitiy.

Please do not hesitate to contact STAUFF for further details.

## www.stauff.com

Product Overview / Index



## **STAUFF Mobile Filter Units**

## SMFS-P-015



## Features

Portable hand-held unit
High-quality gear pump
Nominal flow rate up to 15 l/min / 4 US GPM

2 motor versions: 230 V 50 Hz or 400 V 50 Hz

- Micron rating available from 3 ... 125 μm

• Weight: approx. 23 kg / 51 lbs

also available with a blank filter element for the reason of used oil to be removed from the hydraulic reservoir

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## SMFS-U-030



#### Features

•	Mobile filteration system
•	High-quality gear pump
•	Nominal flow rate up to 30 I/min / 8 US GPM
•	2 motor versions: 230 V 50 Hz or 400 V 50 Hz
•	Weight: approx. 46 kg / 101 lbs
•	Micron rating available from 3 125 μm
•	also available with a blank filter element for the reason
	of used oil to be removed from the hydraulic reservoir

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Lance

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# SMFS-U-060 / 110



## **Features**

Mobile filteration system
<ul> <li>High-quality gear pump</li> </ul>
<ul> <li>Nominal flow rate up to 60 I/min / 15 US GPM</li> </ul>
or 110 I/min / 30 US GPM
<ul> <li>Micron rating available from 3 25 μm</li> </ul>
<ul> <li>Weight: approx. 87 kg / 192 lbs or 130 kg / 287 lbs</li> </ul>

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## Also available ...



## STAUFF America: STAUFF Portable Filter Cart SCFC-05 / 10

## **Features**

- High-quality gear pump
- Nominal flow rate up to 38 I/min / 10 US GPM
- 3 motor versions: 110 V / 230 V / 400 V
- Micron rating available from 3 ... 144 μm
- Weight: approx. 53 kg / 117 lbs



## STAUFF America: STAUFF Portable Filter Cart SPFC-10

## Features

- High-quality gear pump
- Nominal flow rate up to 38 I/min / 10 US GPM
- 3 motor versions: 110 V / 230 V / 400 V
- $\blacksquare$  Micron rating available from 3 ... 144  $\mu m$
- Weight: approx. 86 kg / 189 lbs



## STAUFF Australia: STAUFF Portable Filter Cart SPFC

## **Features**

- High-quality gear pump
- Nominal flow rate up to 23 I/min / 6 US GPM
- Magnetic core pre-filtration
- Micron rating 10 μm
- Weight: approx. 53 kg / 117 lbs



## **Portable Filtration System • Type SMFS-P-015**





## **Product Description**

The SMFS-P-015 supplement the range of products, which is a portable hand-held filtration system. Due to it's compact and light-weight design, it can be used very flexible and consistenly provides best filtration performance at the same time.

## **Technical Data**

#### **Dimensions**

■ BxTxH: 250 mm x 450 mm x 485 mm

9.84 in x 17.71 x 19.09 in

• Weight: approx. 23 kg / 51 lbs

#### Media

• suitable for mineral oils, other fluids on request

#### Flow

■ 15 I/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 20 - on pressure side: DN 12

## 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

Protection class IP 55

## 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**

STAUFF Clogging Indicator SIM 04

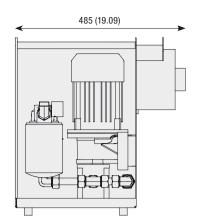
#### Lance

- available length 150 mm / 5.91 in
- other lengths on request

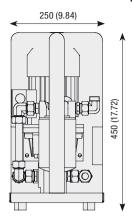
## Hose

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



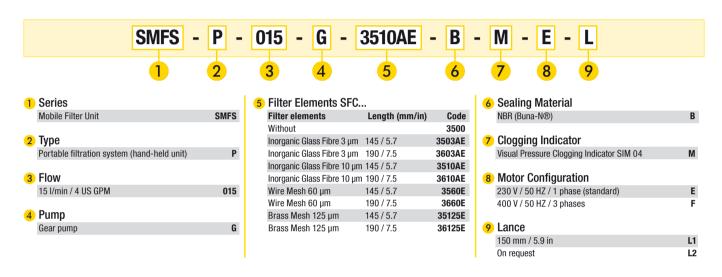


## **Dimensions • Type SMFS-P-015**



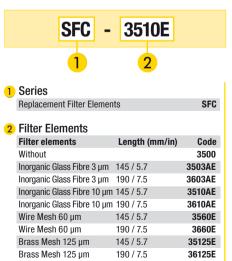
Dimensions in mm (inch).

## **Order Codes • Type SMFS-P-015**



## Replacement Filter Elements - Type SFC-35/36

## **Order Codes**



## **Product Description**

For further information and technical data on the Replacement Filter Elements type SFC-35/36 please see our general product catalogue STAUFF ONE, section Filtration Technology on page C135.





## **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**

■ WxDxH: 620 mm x 610 mm x 1125 mm

24.41 in x 24.02 in x 44.29 in

• Weight: approx. 46 kg / 101 lbs

#### Media

• suitable for mineral oils, other fluids on request

#### Flow

■ 30 I/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

## 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 20 - on pressure side: DN 12

## 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

Protection class IP 55

## Accessories

## **Replacement Filter Elements**

- Filter elements of the Spin-On series SFC-57/58
- $\blacksquare$  Micron rating available from 3 ... 125  $\mu m$
- also available with a blank filter element (SFC-5700) for the reason of used oil to be removed from the hydraulic reservoir

## **Clogging Indicator**

■ STAUFF Clogging Indicator SIM 04

#### Lance

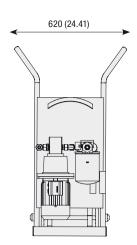
- available length 650 mm / 25.59 in
- other lengths on request

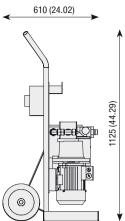
## Hose

- available length:
- 3 m / 9.84 ft incl. port



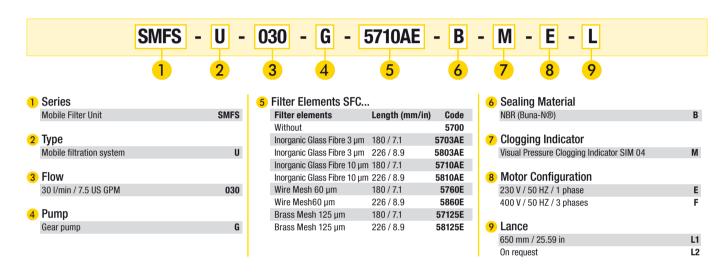
# **Dimensions • Type SMFS-U-030**





Dimensions in mm (inch).

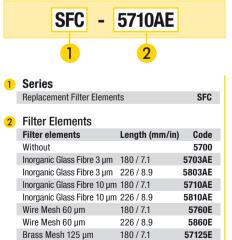
# **Order Codes • Type SMFS-U-030**



## **Replacement Filter Elements - Type SFC-57/58**

## **Order Codes**

Brass Mesh 125 µm



226 / 8.9

58125E

## **Product Description**

For further information and technical data on Replacement Filter Elements type SFC-57/58 please see our general product catalogue STAUFF ONE, section Filtration Technology on page C136.





## Mobile Filtration System • Types SMFS-U-060 / -110







SMFS-U-110

## **Product Description**

STAUFF manufacturers 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, STAUFF 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**

■ WxDxH: 620 mm x 954 mm x 935 mm

24.41 in x 37.56 x 36.81 in

• Weight:

- SMFS-U-060: 87 kg / 192 lbs - SMFS-U-110: 130 kg / 287 lbs

#### Media

• 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 mm<sup>2</sup>/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

#### Pre-filter

SMFS-U-060: SF-6791 (Standard option)

#### Moto

CE-certified motor unit (400 VAC @ 50 Hz - 3 phases)

Power consumption:

 SMFS-U-060: 0,75 kW
 SMFS-U-110: 4 kW

 Protection class IP 55

■ Plug CEE 16A 3P+N+G

## Accessories

## Replacement Filter Elements

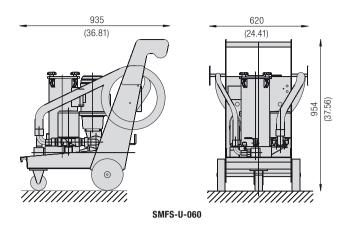
- Filter elements of type NR
- Micron rating available from 3 ... 25 μm
- also available: Pre-filter SF-57125 (only for SMFS-U-60)

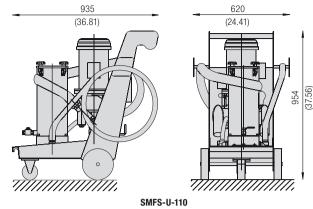
## **Clogging Indicator**

STAUFF Clogging Indicator HI



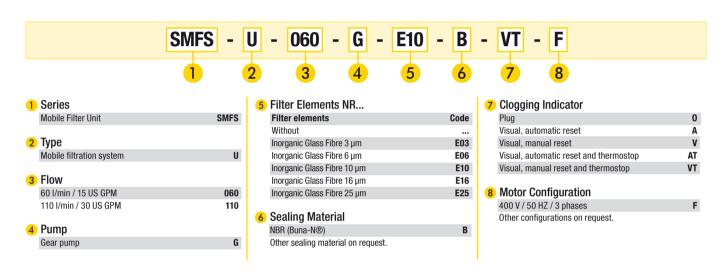
## Dimensions • Types SMFS-U-060 / -110





Dimensions in mm (inch).

# Order Codes - Types SMFS-U-060 / -110



## Replacement Filter Elements - Types NR-630, SFC-57 and SF67

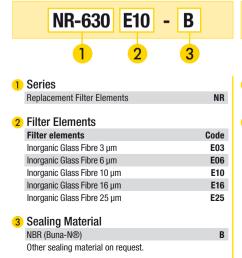
## **Product Description NR-630**

All STAUFF Inorganic Glass Fibre filter elements are designed to achieve  $\textsc{B-value} \ge \! 200$  at their rated micron rating.

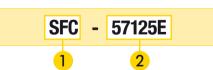
## Product Description SFC-57/SF67 (only for SMFS-U-060)

Spin-On filter elements for pre-filtration.
Filter element belongs to the standard option of the SMFS-U-60.

# Order Codes



## **Order Codes**



1 Series
Replacement Filter Elements SFC / SF
2 Filter Elements





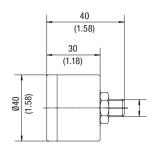
NR-630 SFC-57 / SF67

**Note:** For further information and technical data please see our general product catalogue STAUFF ONE, section Filtration Technology on pages C136 and C137.



# **STAUFF Visual Clogging Indicator • Type SIM 04**





Dimensions in mm (inch).

## **Technical Data**

## **Visual Pressure Clogging Indicator**

Connection thread: G1/8
Unit of scale: bar
Range of scale: 0 ... 4 bar

**Coloured Segments** 

 - Green:
 0 ... 2,5 bar

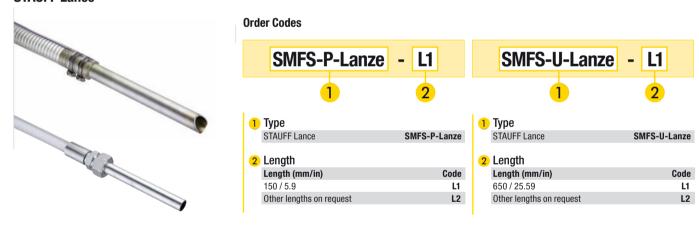
 - Yellow:
 2,5 ... 3 bar

 - Red:
 3 ... 4 bar

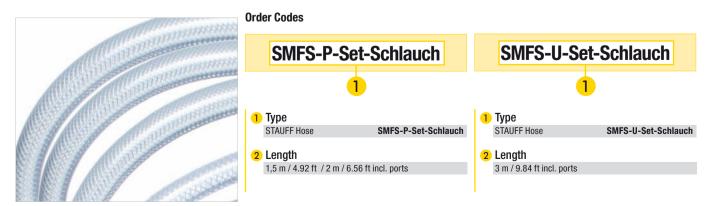
Material for movement and pressure element: Brass.

For further information and technical data on Clogging Indicators please see our general product catalogue STAUFF ONE, section Filtration Technology on page C143.

## **STAUFF Lance**

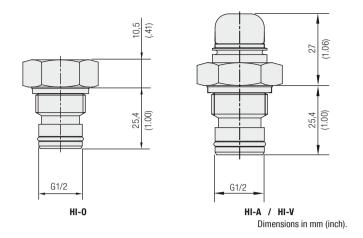


## **STAUFF Hose**





## **STAUFF Clogging Indicator • Typ HI**



## **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-0). 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 Specifications**

Body: Stainless Steel

Sealing: NBR (Buna-N®) (others on request)

Seal 18,5 mm x 23,9 mm x 9x2 mm / .73 in x .94 x .08 in

0-Ring 15,5 mm x 1,5 mm / .61 in x .06 in

Thread: G1/2

Differential pressure setting: 2,5  $_{\mbox{\tiny -0,5}}$  bar / 36.3  $_{\mbox{\tiny -7.25}}$  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  $\Delta p$  may have fallen. Pressing the plastic cover down will reset

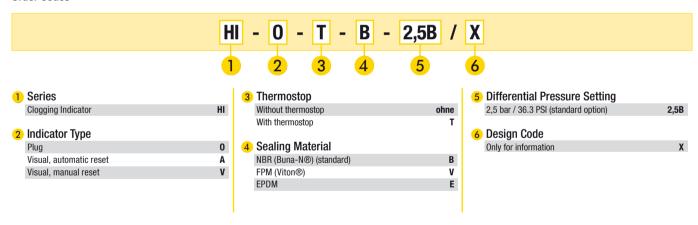
the indicator.

 $\begin{tabular}{ll} \blacksquare & \underline{Automatic\ Reset:} & \underline{Automatic\ Reset$ 

for the indicator.

For further information please see our general product catalogue STAUFF ONE, section Filtration Technology **Technology on page C36**.

## **Order Codes**



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