

Technical Data

STAUFF SMPF series medium pressure filters are designed for in-line hydraulic applications with a maximum operating pressure of 110 bar (1600 PSI). Used together with STAUFF filter elements, a high efficiency of contaminant removal is assured.

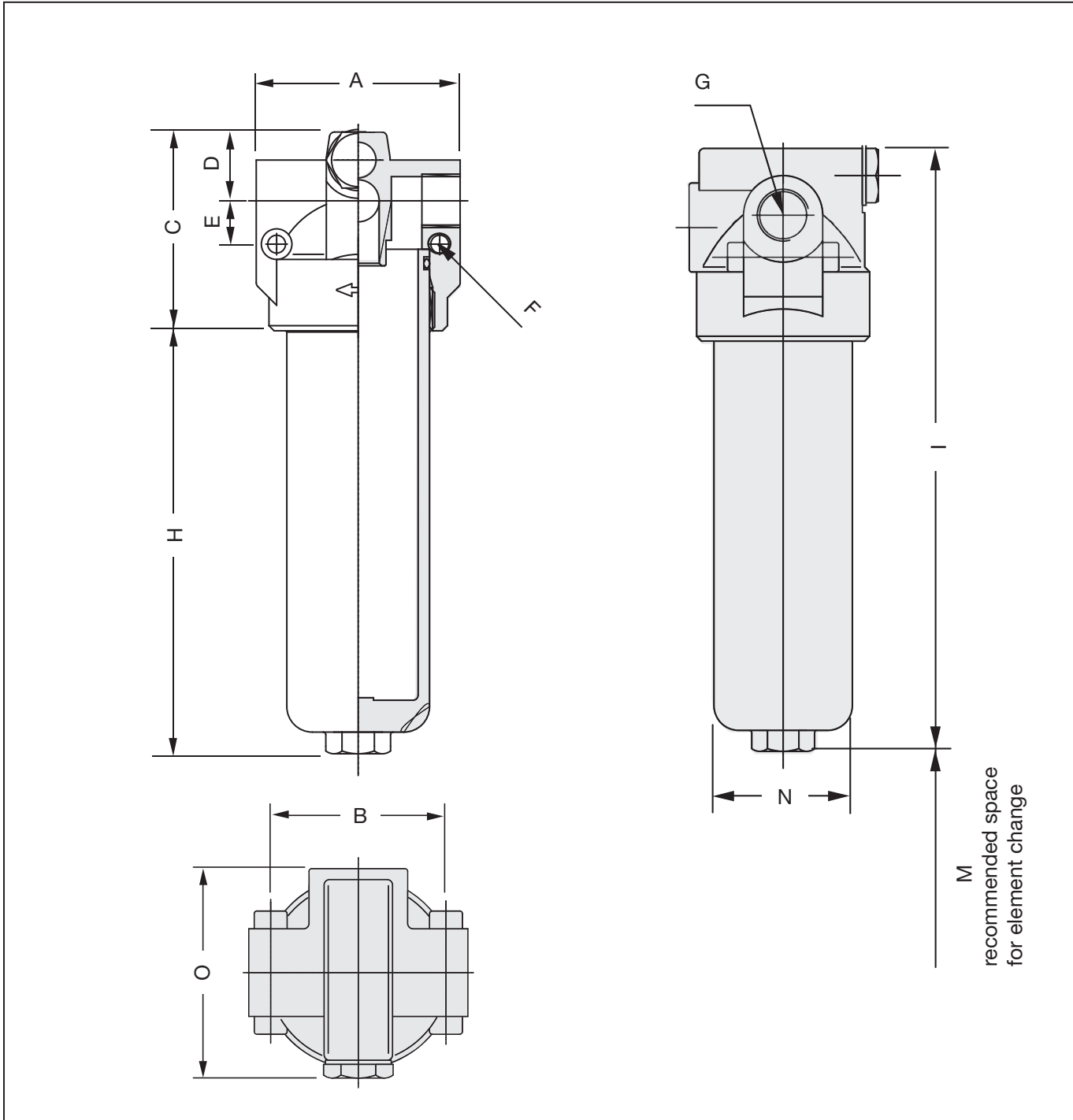


Technical Specification

Construction	In-line assembly
Filter base and cap	Aluminium alloy
Seals	O-Rings NBR (Buna-N®)
Port connections	BSP, SAE "O"-Ring thread
Flow rating	up to 90 l/min (25 US GPM) for 32 cSt (150 SUS) fluids
Operating pressure	max 110 bar (1600 PSI)
Test pressure	200 bar (2900 PSI)
Temperature range	-25°C to +110°C (-13°F to +230°F)

By-pass valve	Allows unfiltered oil to by-pass the contaminated element once the opening pressure has been reached
By-pass setting	6 bar (87 PSI)
Clogging indicators	standard actuating pressure: 5 bar (72 PSI) indicator types: visual and visual-electrical
Filter elements	Flow characteristics see page F27
Media	Mineral oils, other fluids on request

Dimensions



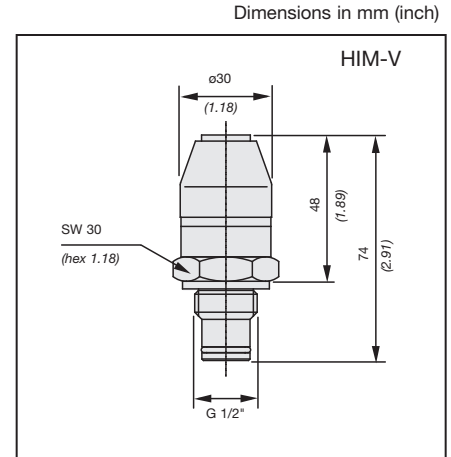
FILTRATION

Dimensions in mm (inch)

Filter Size	Nominal Flow	A	B	C	D	E	F	H	I	M	N	O	Thread connection G		Weight
													SAE	BSP	
SMPF015	60 LPM (15 GPM)	80 (3.2)	64 (2.52)	78 (3.1)	27 (1.1)	17 (0.7)	7 (0.3)	79 (3.1)	157 (6.2)	60 (2.4)	56 (2.2)	76,5 (3)	3/4-16 UN	G 1/2	0.95 kg (2.1 lb)
SMPF025	90 LPM (25 GPM)	80 (3.2)	64 (2.52)	78 (3.1)	27 (1.1)	17 (0.7)	7 (0.3)	166 (6.5)	244 (9.61)	60 (2.4)	56 (2.2)	76,5 (3)	3/4-16 UN	G 1/2	1.25 kg (2.8lb)

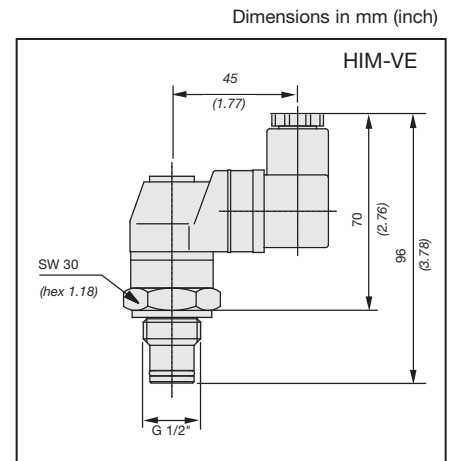
1. Visual clogging indicator

Part number HIM-V is a clogging indicator actuated by the differential pressure across the filter element. The actuating pressure of 5 bar (72 PSI) allows the dirty element to be changed before the by-pass setting of 6 bar (87 PSI) is reached.



2. Visual-Electrical clogging indicator

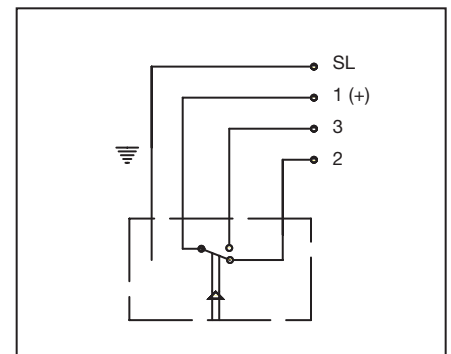
Part number HIM-VE is used when an electrical signal is needed to indicate when the element needs changing. It is actuated by the differential pressure across the filter element. The actuating pressure of 5 bar (72 PSI) allows the dirty element to be changed before the by-pass setting of 6 bar (87 PSI) is reached.



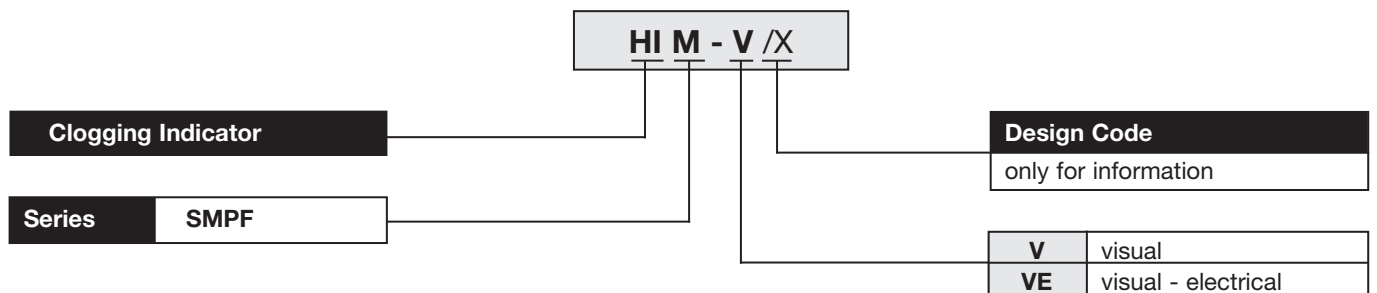
HIM-VE Rated capacity

Voltage V	Resistive Load Amps	Inductive Load Amps
125 VAC	5	5
250 VAC	5	5
15 VAC	10	10
30 VDC	5	5
50 VDC	1	1
125 VDC	0.5	0.06

HIM-VE Wiring diagram



Ordering Code



Ordering Code Filter Housings

SMPF 015 ... B - T B / B / E /X

Filter Type SMPF

Group		
Size	Flow*	
	l/min	GPM
15	60	15
25	90	25

* Note: exact flow will depend on filter element selected. Consult technical data on page F27.

For Complete Filters:
identification filter material + micron rating code (see ordering code filter elements below)

Seal Material	
B	NBR (Buna®)
Other seal material on request	

Design Code
only for information

Clogging Indicators	
V	visual
E	visual / electrical

Valve	
O	Without Valve
B	By-pass Valve

Connection Style		
B	BSP	G ¹ / ₂
U	SAE O-Ring thread	3/4-16 UN

Mounting Style	
T	In-line

FILTRATION

Ordering Code Filter Elements

SME 015 E 03 B /X

Series SME

Group according to filter housing

Filter Material			Micron ratings available
Code	Material	max Δp* _{collapse}	
E	Inorganic glass fiber	30 bar (435 PSI)	03,10,20
S	Stainless mesh	20 bar (290 PSI)	60

*collapse/ burst resistance as per ISO 2941

Design Code
only for information

Seal Material	
B	NBR (Buna®)
Other seal material on request	

Micron Rating	
Code	Rating
03	3 μm
10	10 μm
20	25 μm
60	60 μm
Other micron ratings on request	

Flow Characteristics of Medium Pressure Filters

The following characteristics are valid for mineral oils with a density of 0,85 kg/dm³ and the kinematic viscosity of 30 mm²/s. The characteristics have been determined in accordance to ISO 3968. Multipass filter ratings have been obtained in accordance to ISO 16889. Consult factory for details.

