

Protect the performance of your system with MYclean.

Quality and efficiency are fundamental for MP Filtri:
this exclusive new filter element possesses polygon shape geometry and specific seal that ensures only original spare parts can be used - ensuring correct operation and higher system reliability.







- Protects the machine from improper use of non-original products.
- Safety of constant quality protection & reliability

With exclusive filter element you are sure that only MP Filtri filter elements can be used, ensuring the best cleaning level of the oil due to the use of originals filter elements.



The products identified as SFEX are protected by:

- Italian Patent n° 102014902261205
- Oanadian Patent n° 2,937,258
- European Patent n° 3 124 092 B1
- US Patent n° 20170030384 A1



SFEX series

Flow rate up to 100 I/min



SFEX GENERAL INFORMATION

Description

Suction filters

Flow rate up to 100 l/min

SFEX are range of suction filters for protection of the downstream pump against the coarse contamination.

They are placed below the minimum oil level, directly connected to the suction line of the pump in-line mounted.

Available features:

- Female threaded connections up to 1 1/4" and SAE connections up to 1 5/8", for a maximum flow rate of 100 l/min
- Bypass valve, to relieve excessive pressure drop across the filter media
- Visual, electrical, axial and radial vacuum gauges
- MYclean interface connection for the filter element, to protect the product against non-original spare parts
- External protective wrap, to optimize the flow through the element and to save the element efficiency against non-proper handling

Common application:

- Mobile machines
- Industrial equipment

Technical data

Filter housing materials

- Head: Aluminium
- Bypass valve: Polyamide Steel
- Bowl: Polyamide

Bypass valve

Opening pressure 30 kPa (0.3 bar) ±10%

Elements

Fluid flow through the filter element from OUT to IN

Seals

Standard NBR series A

Temperature

From -25 °C to +110 °C

Note

SFEX filters are provided for vertical mounting

Weights [kg] and volumes [dm³]

Filter series	Weights [kg]		Volumes [dm³]	
	Length 1	2	Length 1	2
SFEX 060	1.00	1.15	0.60	0.80
SFEX 110	1.90	2.10	1.60	2.00

Flow rates [I/min]

		Filter element design - N Series						
Filter series	Length		M0060	M0090	M0250	P0010	P0025	
CEEV OCO	10		31	33	33	13	20	
SFEX 060	20		34	35	35	24	30	

		Filter element design - N Series					
Filter series	Length	M0060	M0090	M0250	P0010	P0025	
SFEX 110	10	93	96	96	48	53	
SLEY 110	20	98	99	99	60	65	

Maximum flow rate for a complete suction filter with a pressure drop $\Delta p = 0.08$ bar.

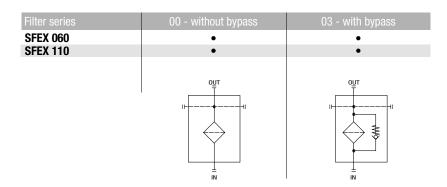
The reference fluid has a kinematic viscosity of 30 mm 2 /s (cSt) and a density of 0.86 kg/dm 3 .

For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltri.com.

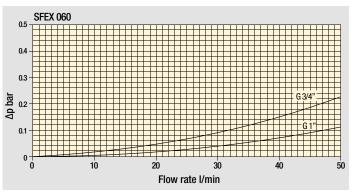
Please, contact our Sales Department for further additional information.

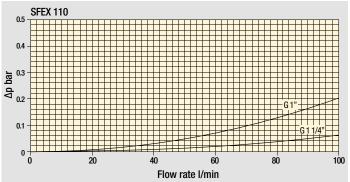


Hydraulic symbols

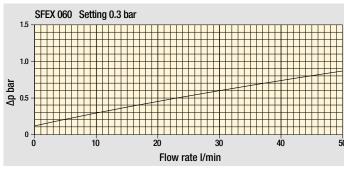


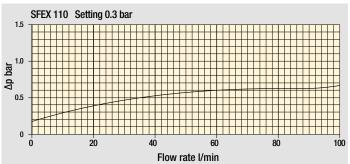
$\begin{array}{c} Pressure \ drop \\ Filter \ housings \ \Delta p \ pressure \ drop \end{array}$





Bypass valve pressure drop





The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. Δp varies proportionally with density.

Corrective factors "Y" for filter element Δp calculation

Filter element		Nominal filtration Collapse ΔP : A = 1 bar					
Туре	Length	P0010	P0025	M0025	M0060	M0090	M0250
FFV 000	10	4.58	3.22	1.02	0.89	0.63	0.63
FEX 060	20	1.97	1.38	0.62	0,45	0.29	0.29
EEV 110	10	1.33	1.12	0.22	0.18	0.14	0.14
FEX 110	20	0.90	0.76	0.15	0.10	0.09	0.09

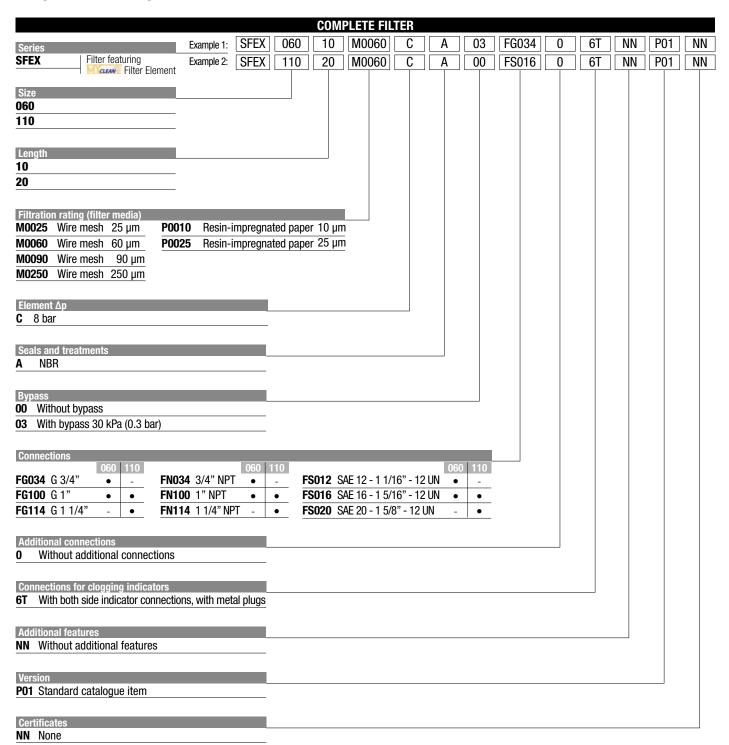
See page 22 for the complete information regarding filter element Δp calculation.

Maximum total pressure drop (Δp max) allowed by a new and clean filter

Filter family	Δp max		
Suction	0.08 bar	1.15 psi	



Designation & Ordering code

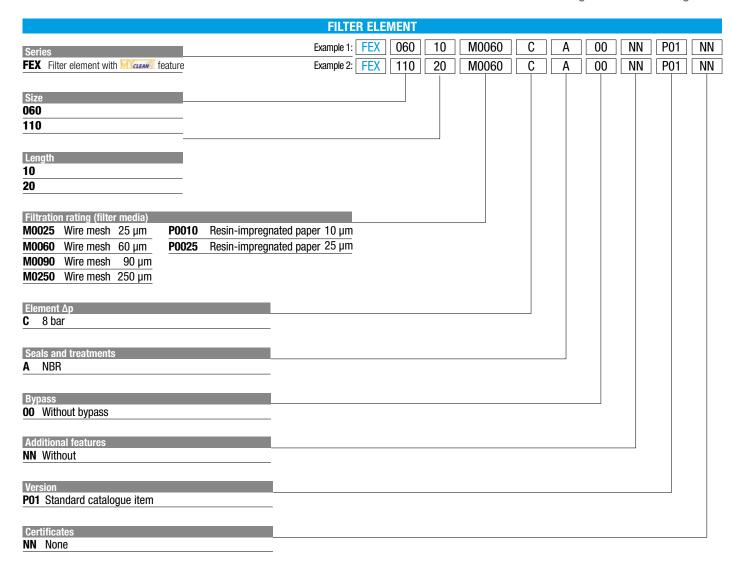


	CLOGGING INDICATORS See page					
VEB	Electrical vacuum indicator	VVB	Axial pressure gauge			
VLB	Electrical / visual vacuum indicator	VVS	Radial pressure gauge			



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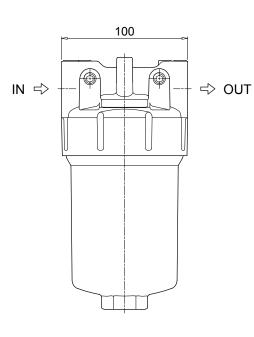
Designation & Ordering code

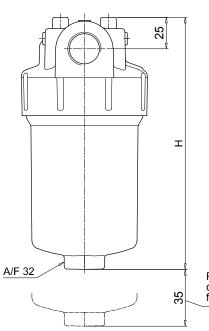


Dimensions

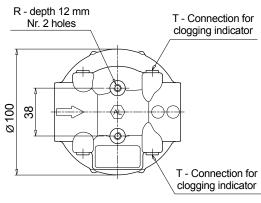
Filter length	H [mm]
10	202
20	265

Connections	Т	R		
FG034	G 1/8"	M6		
FG100	G 1/8"	M6		
FN034	1/8" NPT	1/4" UNC		
FN100	1/8" NPT	1/4" UNC		
FS012	1/8" NPT	1/4" UNC		
FS016	1/8" NPT	1/4" UNC		



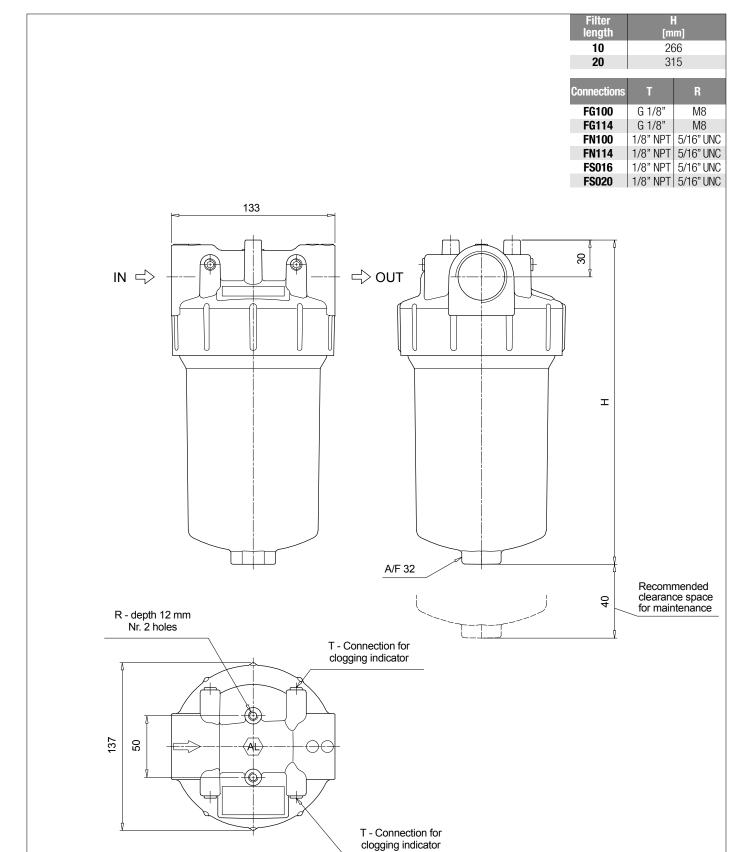


Recommended clearance space for maintenance

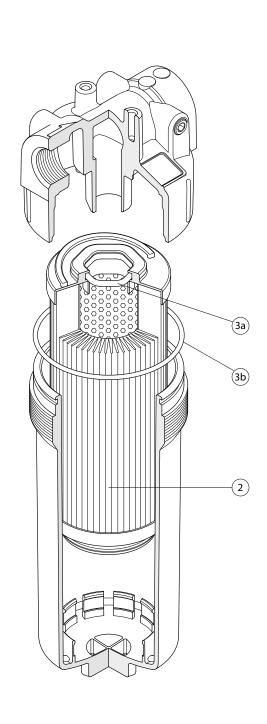


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Dimensions



Order number for spare parts



Item:	Q.ty: 1 pc.	Q.ty: 1 pc. (3) (3a ÷ 3b)
Filter series	Filter element	Seal Kit code number NBR
SFEX 060	See order	02050771
SFEX 110	table	02050772

Designation & Ordering code

