



THE **X** CONCEPT FOR OUR FILTERS

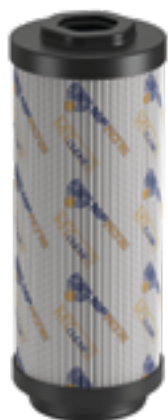
Protect the performance of your system with MYclean.

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.

RFEX series

with **MYCLEAN** FEX Filter Element



◆ **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 RFEX are protected by:

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

RFEX series

Maximum working pressure up to 1.6 MPa (16 bar) - Flow rate up to 260 l/min

ELIXIR®

INSTALLATION, SERVICE AND MAINTENANCE MANUAL AND SAFETY INSTRUCTIONS



Please scan or click the QR codes to get updated electronic version of the related document:



RFEX060



RFEX110

For all the QR codes: Scan or click me!

Description

Return filter

Maximum working pressure up to 1.6 MPa (16 bar)
Flow rate up to 260 l/min

RFEX is a range of return filters for protection of the reservoir against the system contamination.

They are mounted in line to limit aeration or foam generation into the reservoir.

Available features:

- Female threaded connections up to 1 1/4" and SAE connections up to 1 5/8", for a maximum flow rate of 260 l/min
- Fine filtration rating, to get a good cleanliness level into the reservoir
- Bypass valve, to relieve excessive pressure drop across the filter media
- Visual, electrical, axial and radial pressure 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 applications:

- Light Industrial equipment
- Mobile application

Technical data

Filter housing materials

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

Pressure

- Test pressure: 2.4 MPa (24 bar)
- Min. Burst pressure: 4.8 MPa (48 bar)
- Pulse pressure fatigue test: 1 000 000 cycles with pressure from 0 to 1.6 MPa (16 bar)

Bypass valve

Opening pressure 0.175 MPa (1.75 bar) $\pm 10\%$

Filter element features

Filter RFEX		Filter element FEX	
Δp Element type			
Element media	Construction	Δp Series	Δp
A - Microfiber	Standard	C	8 bar
M - Wire mesh	Standard	C	8 bar
P - Paper	Standard	C	8 bar
<i>Please see ordering code tables to check element Δp series availability based on filter features.</i>			
Flow direction through the filter element:			
From OUT to IN			

Seals

Standard NBR series A

Temperature

From -25 °C to +110 °C

Note

RFEX filters are provided for vertical mounting

Weights [kg] and volumes [dm³]

Filter series	Weights [kg]		Volumes [dm ³]	
	Length	10 20	Length	10 20
RFEX 060		1.00 1.15		0.60 0.80
RFEX 110		1.90 2.10		1.60 2.00

Flow rates [l/min]

Filter element design - C Series

Filter series	Length	A0010	A0016	A0025	M0060	M0090	P0010	P0025
RFEX 060	10	60	61	64	87	89	62	77
	20	69	70	75	91	92	79	93
RFEX 110	10	141	153	172	250	252	186	196
	20	166	168	191	255	256	207	215

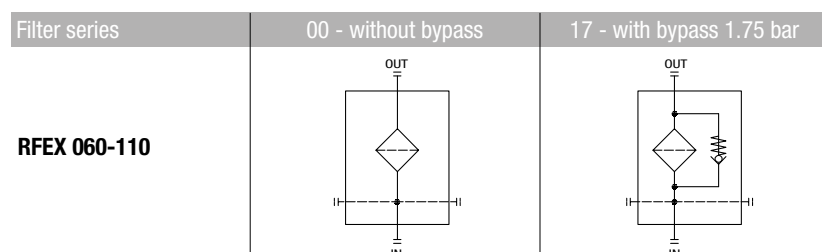
Maximum flow rate for a complete return filter with a pressure drop $\Delta p = 0.5$ bar.

The reference fluid has a kinematic viscosity of 30 mm²/s (cSt) and a density of 0.86 kg/dm³.

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

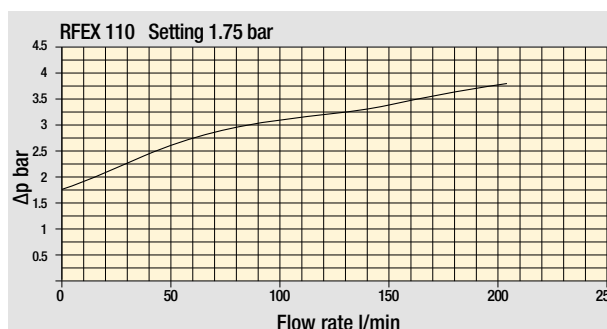
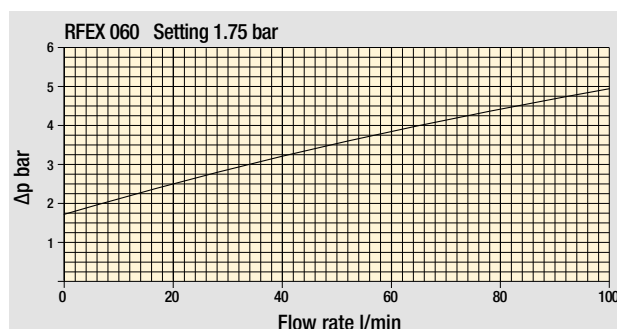
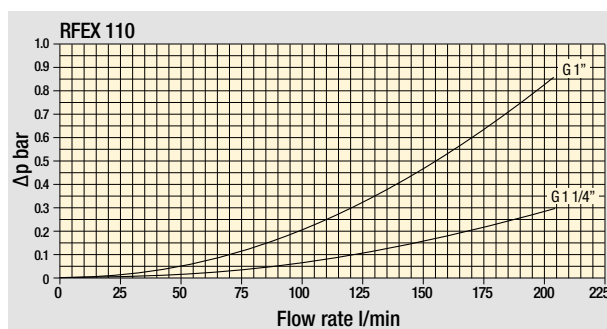
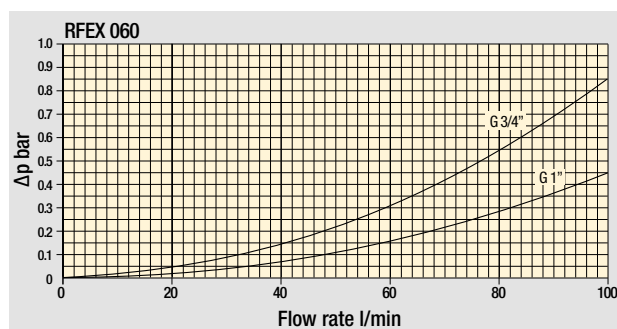
Please, contact our Sales Department for further additional information.

Hydraulic diagram



Pressure drop

Filter housings
 Δp pressure drop



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.

RFEX RFEX060 - RFEX110

Designation & Ordering code

COMPLETE FILTER

Series	Example 1:	RFEX	060	10	A0010	C	A	17	FG034	0	6T	NN	P01	NN	
RFEX	Example 2:	RFEX	110	20	A0010	C	A	00	FS016	0	6T	NN	P01	NN	
Filter featuring	MYCLEAN Filter Element														
Size															
060															
110															
Length															
10															
20															
Filtration rating (filter media)															
A0010	Inorganic microfiber	10 µm													
A0016	Inorganic microfiber	16 µm													
A0025	Inorganic microfiber	25 µm													
M0060	Wire mesh	60 µm													
M0090	Wire mesh	90 µm													
P0010	Resin-impregnated paper	10 µm													
P0025	Resin-impregnated paper	25 µm													
Element Δp															
C	8 bar														
Seals and treatments															
A	NBR														
Bypass															
00	Without bypass														
17	With bypass 1.75 bar														
Connections	060	110													
FG034	G 3/4"	•	-												
FG100	G 1"	•	•												
FG114	G 1 1/4"	-	•												
FN034	3/4" NPT	•	-												
FN100	1" NPT	•	•												
FN114	1 1/4" NPT	-	•												
FS012	SAE 12 - 1 1/16" - 12 UN	•	-												
FS016	SAE 16 - 1 5/16" - 12 UN	•	•												
FS020	SAE 20 - 1 5/8" - 12 UN	-	•												
Additional connections															
0	Without additional connections														
Connections for clogging indicators															
6T	With both side indicator connections, with metal plugs														
Additional features															
NN	Without additional features														
Execution															
P01	Standard catalogue item														
Certificates															
NN	None														

CLOGGING INDICATORS

See pages 776-777

BEA Electrical pressure indicator

BEM Electrical pressure indicator

BLA Electrical / visual pressure indicator

BVA Axial pressure gauge

BVR Radial pressure gauge

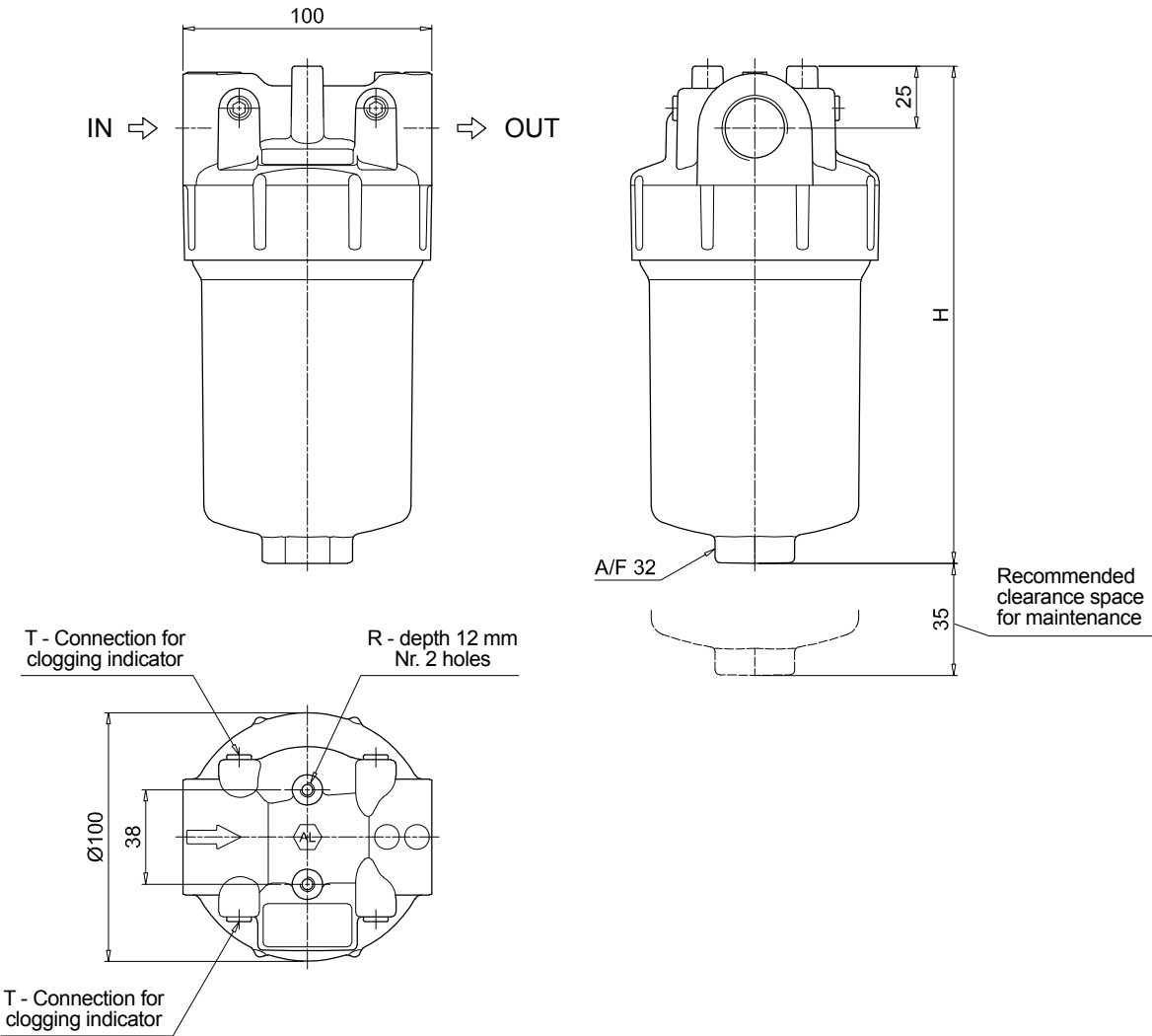
BVP Visual pressure indicator with automatic reset

BVQ Visual pressure indicator with manual reset

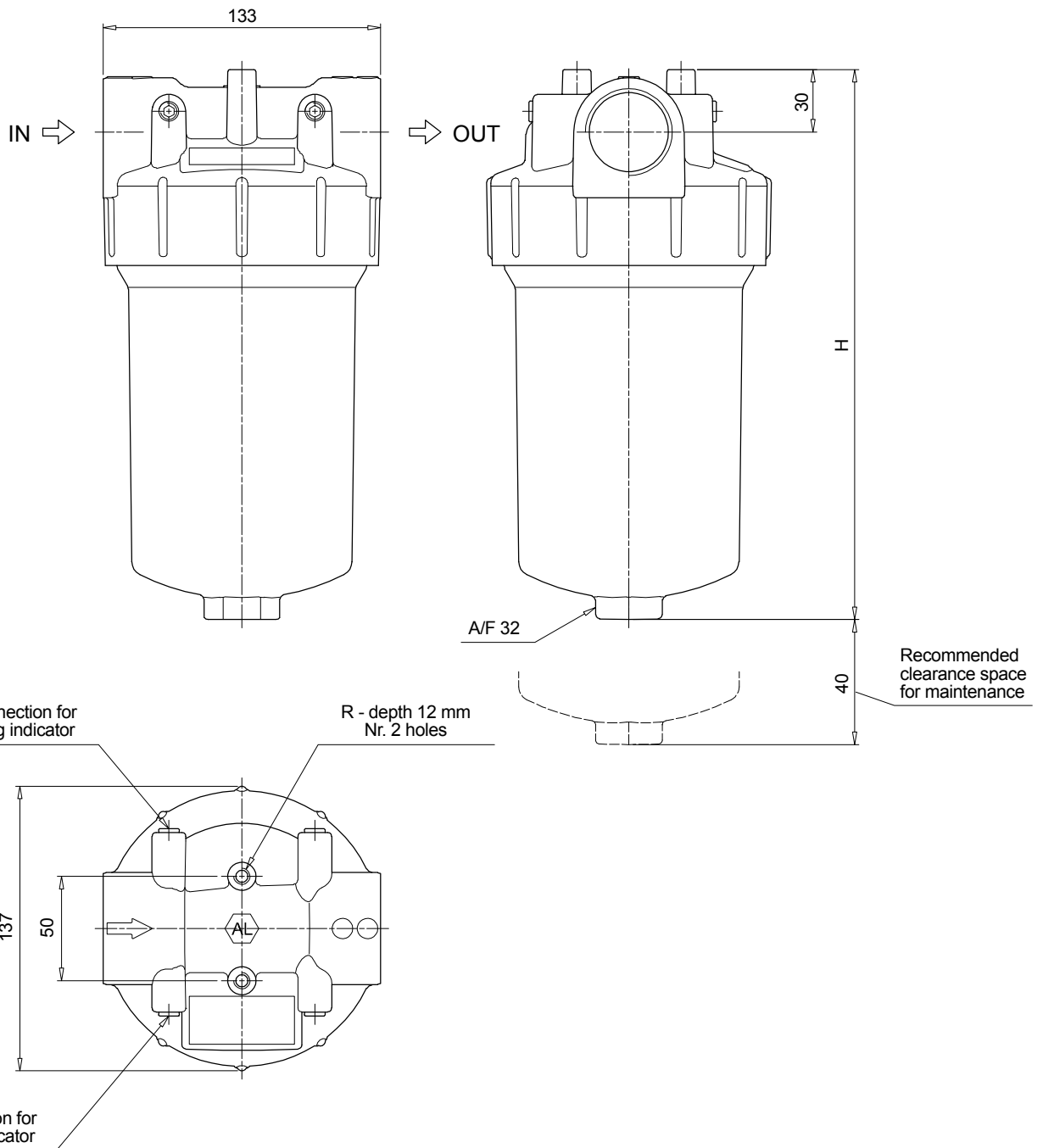
FILTER ELEMENT										
Series	Example 1: FEX 060 10 A0010 C A 00 NN P01 NN									
FEX Filter element with MYCLEAN feature	Example 2: FEX 110 20 A0010 C A 00 NN P01 NN									
Size										
060										
110										
Length										
10										
20										
Filtration rating (filter media)										
A0010 Inorganic microfiber 10 µm										
A0016 Inorganic microfiber 16 µm										
A0025 Inorganic microfiber 25 µm										
M0060 Wire mesh 60 µm										
M0090 Wire mesh 90 µm										
P0010 Resin-impregnated paper 10 µm										
P0025 Resin-impregnated paper 25 µm										
Element Δp										
C 8 bar										
Seals and treatments										
A NBR										
Bypass										
00 Without bypass										
Additional features										
NN Without additional features										
Execution										
P01 Standard catalogue item										
Certificates										
NN None										

Dimensions

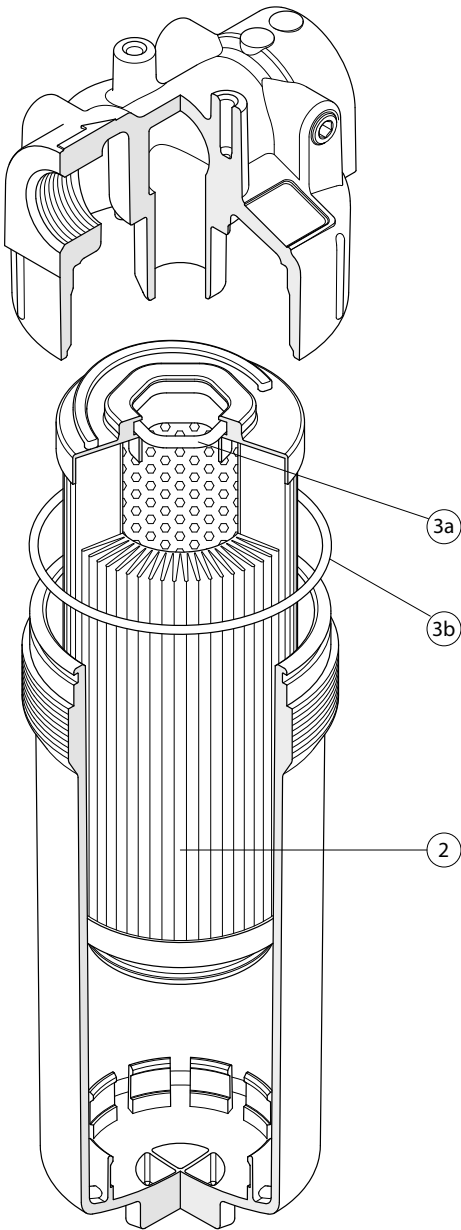
RFEX060				
Filter length	H [mm]	Connection	T	R
10	202	FG034	G 1/8"	M6
20	265	FG100	G 1/8"	M6
		FN034	1/8" NPT	1/4" UNC
		FN100	1/8" NPT	1/4" UNC
		FS012	1/8" NPT	1/4" UNC
		FS016	1/8" NPT	1/4" UNC



RFEX110				
Filter length	H [mm]	Connection	T	R
10	266	FG100	G 1/8"	M8
20	315	FG114	G 1/8"	M8
		FN100	1/8" NPT	5/16" UNC
		FN114	1/8" NPT	5/16" UNC
		FS016	1/8" NPT	5/16" UNC
		FS020	1/8" NPT	5/16" UNC



Order number for spare parts



Q.ty: 1 pc.		Q.ty: 1 pc.
Item:	2	3 (3a ÷ 3b)
Filter series	Filter element	Seal Kit code number NBR
RFEX 060	See order table	AK021000512
RFEX 110		AK021000513