



EFRE Series

EVOTEK Return Filters

Product Description

- Operating pressure up to 10 bar
- 130 l/min max.Oil flow rate
- 1350 l/min max.Air flow rate
- Installed on the return line of the hydraulic system
- application in heavy duty, industry
- compliant with industry relevant ISO standards(see ISO test below)

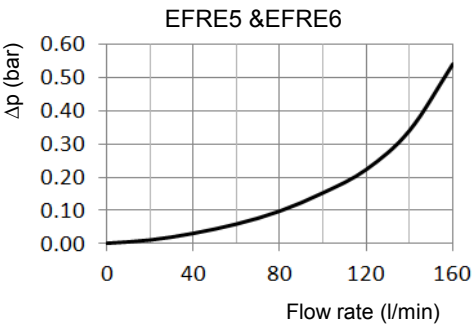
Technical Specifications

Application	Tank-top return filter with integrated level indicator, air breather & refill filtration
Port Sizes:	Threaded Connections according to BSP and NPT standard in 1-¼"and SAE16 threads
Oil Flow Rate:	max. 130 l/min
Air Flow Rate:	max. 1350 l/min
Operating Pressure:	max. 10 bar
Element Collapse Pressure:	10 bar
By-pass Opening Pressure:	$\Delta p=1.7 \text{ bar} +0.3\text{bar}$
Material	
Seals:	NBR or FPM (-25°C to 100°C)
Filter Head:	Aluminium
Filter Bowl:	Polyamide
Compatibility:	Suitable for mineral oils, lubrication oils, non-flam fluids, synthetic and rapidly biodegradable oils (for use with water or other fields please contact our technical department)
Tested according to ISO standards:	ISO2941 Collapse/burst resistance ISO2942 Fabrication integrity ISO2943 Material compatibility integrity ISO3723 Method for end load test ISO3724 Flow fatigue characteristics ISO3968 Pressure Drop vs. Flow Rate ISO16889 Multi-Pass Test

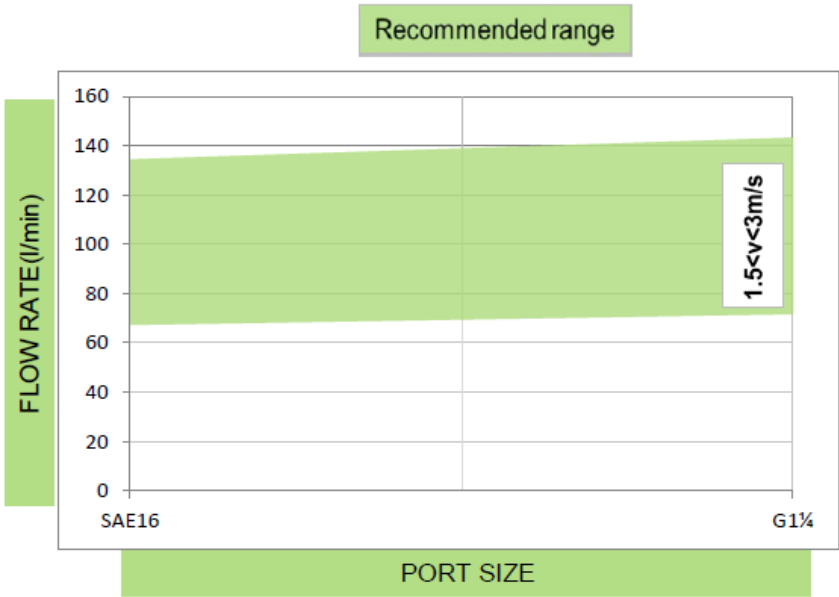
EFRE Return Filter Series

Pressure Drop Graphs (Δp)

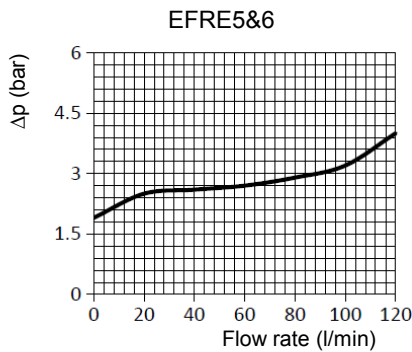
Pressure Drop of Filter Housing only



Graph of oil flow velocity
(we recommend to select size of the filter considering range of oil velocity between 1.5 to 3 m/s for return series)



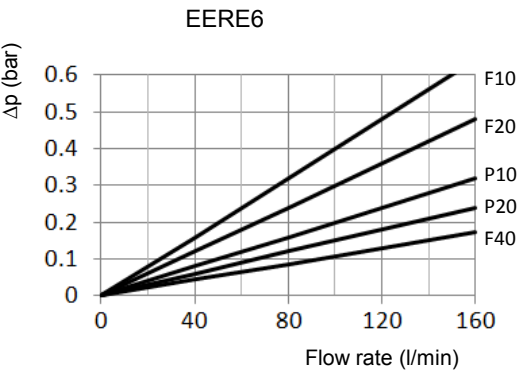
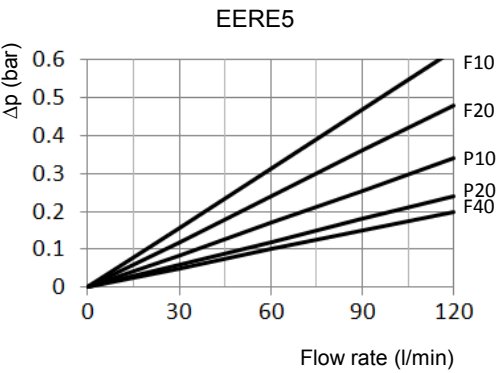
Pressure drop graph on by-pass valve



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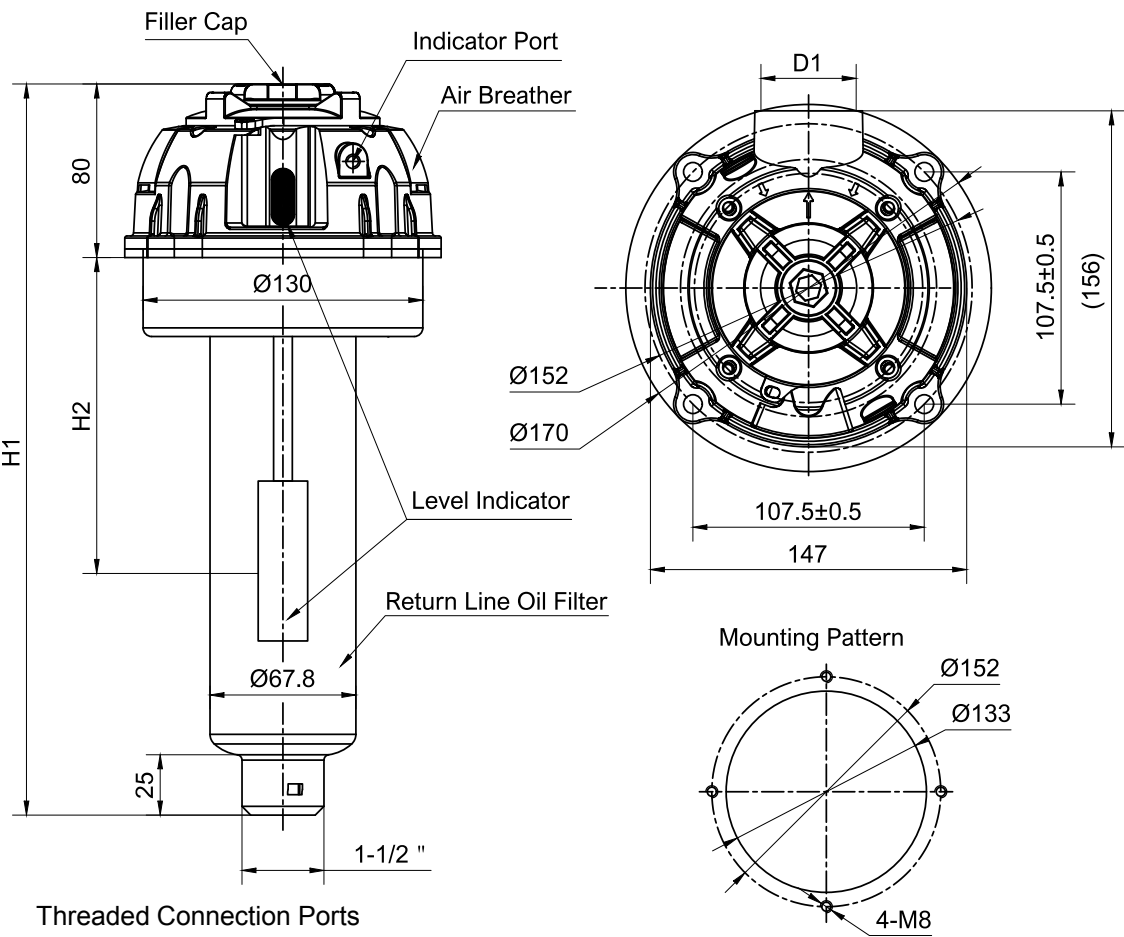
Pressure Drop Graphs (Δp)

Pressure Drop with Clean Filter Elements (F and P filter media)



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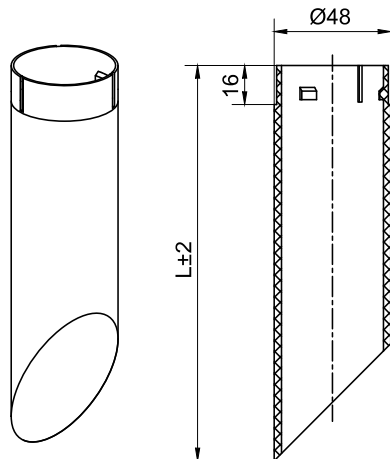
Technical Drawings and Dimension



Threaded Connection Ports

Type	Connection Port (BSP/NPT/SAE)		Height	
	Inch	mm	H1	H2
				lowest oil level
EFRE5	1-1/4"	244		132
EFRE6	SAE20	336		132
				highest oil level
				110

Extension tube



Type	Tube length(L)
L130	130mm
L210	210mm
L260	260mm
L375	375mm
L425	425mm
L456	456mm

EFRE Return Filter Series

Order Codes

Filter Assembly Series	A	B	C	D	-	E	F	G	Element Series	A	D	E
EFRE	6	BE	06	B	-	F10	PZ	00	EERE	6	B	F10

Select the code for each filter (or element) feature according to your requirements and place it in the sequence (see example above) to create the corresponding product order code.

A Size Flow Rate		E Media Material		Filtration	Collapse Pressure
5	100 l/min	P10	Cellulose	10µm	10 bar
6	130 l/min	P20	Cellulose	20µm	10 bar
B Connection Ports		F10	Fiberglass	12µm	10 bar
		F20	Fiberglass	21µm	10 bar
		F40	Fiberglass	40µm	10 bar
		F Indicator			

Notes

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