



## EFTS Series

### EVOTEK Return/ Suction Filters

#### Product Description

- Operating pressure up to 10 bar
- 80 l/min max. flow rate
- installation in Tank-top
- application in Waste management trucks, Mobile cranes, Power packs, Wheeled loaders and Drilling equipment
- compliant with industry relevant ISO standards(see ISO test below)

#### Technical Specifications

Application

Tank-top return filter

Port Sizes:

Threaded Connections according to BSP and NPT standard in 1" and SAE20

Flow Rate:

max. 80 l/min

Operating Pressure:

max. 10bar

Burst Pressure:

min. 30 bar

Element Collapse Pressure:

10 bar

By-pass Opening Pressure:

$\Delta p = 2.5 \text{ bar} \pm 10\%$

Material

Seals:

NBR or FPM (-25°C to 100°C)

Filter Head:

Aluminium

Filter Bowl:

Aluminium

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:

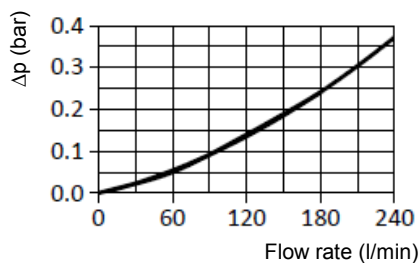
ISO2941 Collapse/burst resistance  
 ISO2942 Fabrication integrity  
 ISO2943 Material compatibility integrity  
 ISO3723 Method for end load test  
 ISO3724 Flow fatigue characteristics  
 ISO3968 Pressure Drop vs. Flow Rate  
 ISO16889 Multi-Pass Test

## EFTS Return Filter Series

Pressure Drop Graphs ( $\Delta p$ )

Pressure Drop of Filter Housing only

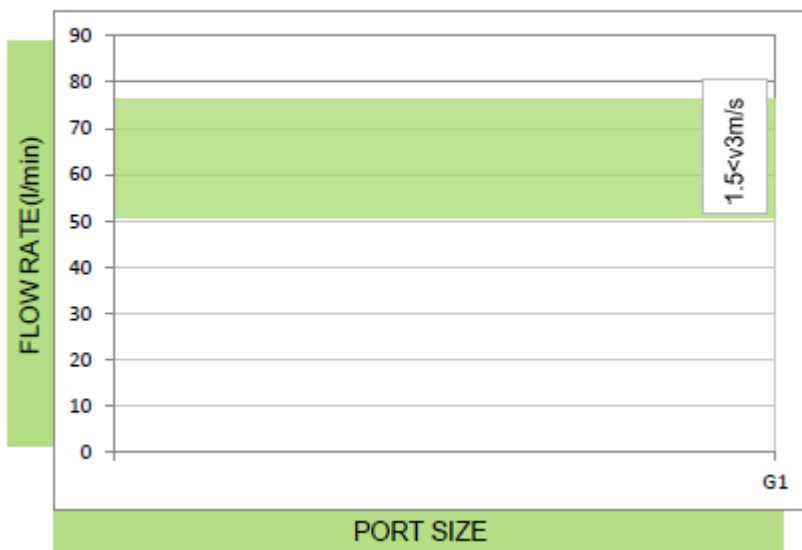
EFTS1



Graph of oil flow velocity

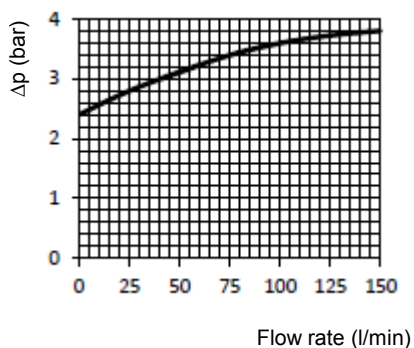
(we recommend to select size of the filter considering range of oil velocity between 1.5 to 3 m/s for return series)

Recommended range



Pressure drop graph on by-pass valve

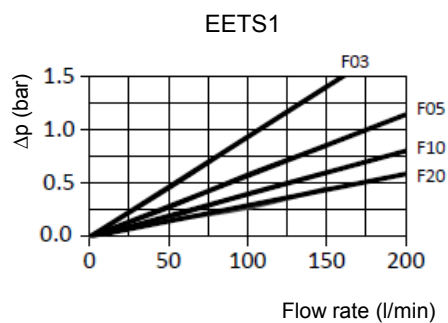
EFTS1



## EFTS Return Filter Series

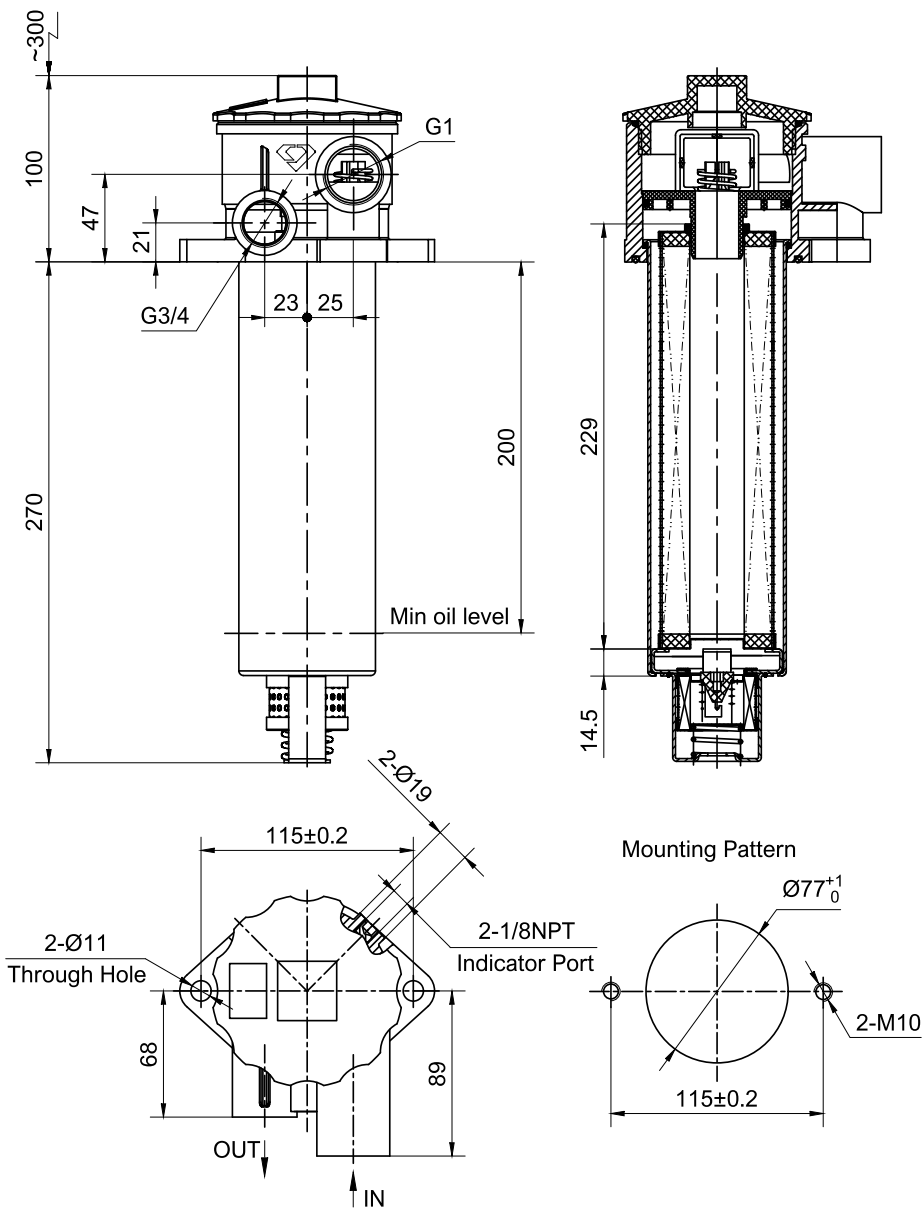
### Pressure Drop Graphs ( $\Delta p$ )

Pressure Drop with Clean Filter Elements (F filter media)



EFTS Return Filter Series

Technical Drawings and Dimension



EFTS Return Filter Series

Order Codes

Filter Assembly Series	A	B	C	D	-	E	-	F	Element Series	A	D	E
EFTS	1	BD	07	B	-	Y10	-	R20	EETS	1	B	Y10

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				D Seal			
1	80 l/min			B		NBR	
				V		FPM	
B Connection Ports				E Media Material      Filtration      Collapse Pressure			
A20	SAE20			F10	Fiberglass	12µm	10 bar
BD	BSP 1 "			F20	Fiberglass	21µm	10 bar
ND	NPT 1 "			Y 10	Wire Mesh	10µm	10 bar
C By-pass Valve				F Indicator      Connection			
07	2.5 bar			0	No		
				R20	2.0 bar Pressure Switch		1/8NPT Thread