



EFRR Series

EVOTEK Return Filters

Product Description

- Operating pressure up to 10 bar
- 2400 l/min max. flow rate
- installation in Tank
- application in Agricultural machines, Wheeled loaders, Lubrication systems, Excavators
- compliant with industry relevant ISO standards(see ISO test below)

Technical Specifications

Application

Tank integrated return filter

Flow direction:

Inside –out flow keeping particles in the element to minimize system contamination during maintenance.

Flow Rate:

max. 2400 l/min

Operating Pressure:

max. 10 bar

Burst Pressure:

min. 30 bar

Element Collapse Pressure:

10 bar

By-pass Opening Pressure:

$\Delta p = 1.5 \text{ bar} + 0.3 \text{ bar}$

Material

Seals:

NBR or FPM (-25°C to 100°C)

Filter Head:

Aluminium

Filter Bowl:

Zinc plated steel

Compatibility:

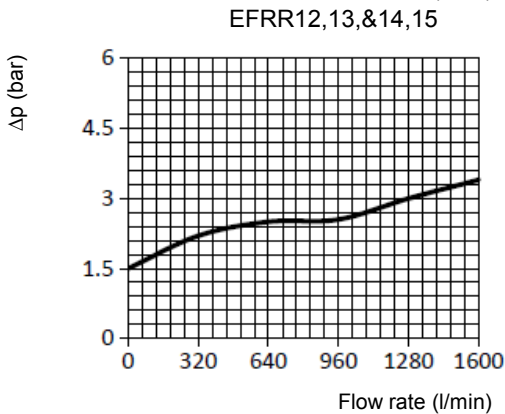
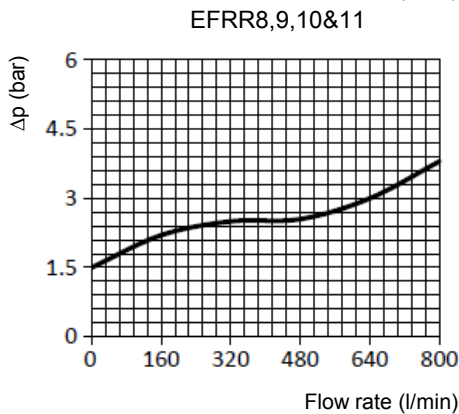
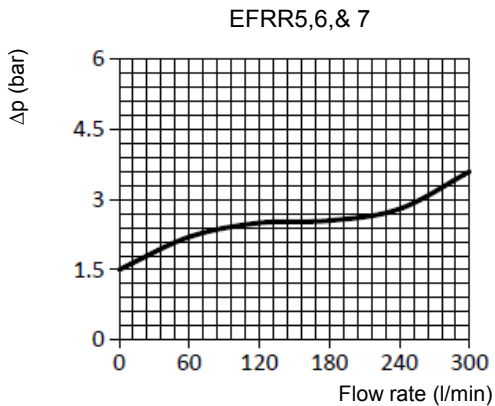
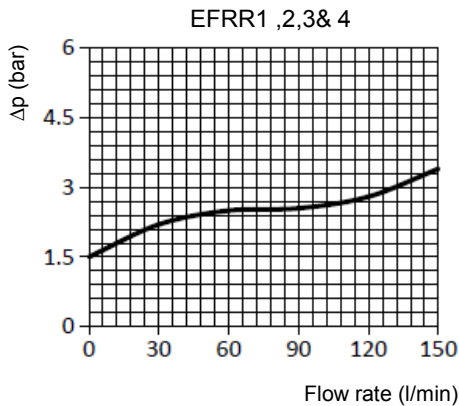
Suitable for mineral oils, lubrication oils, non-flam fluids, synthetic and rapidly biodegradable oils (for use with water or other fields please contact our technical department)

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

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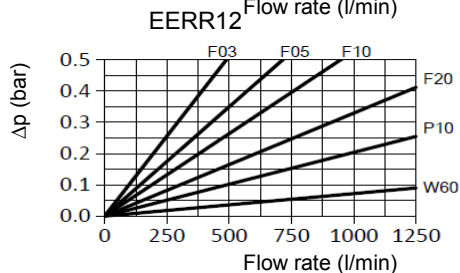
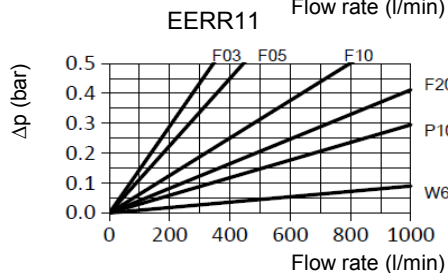
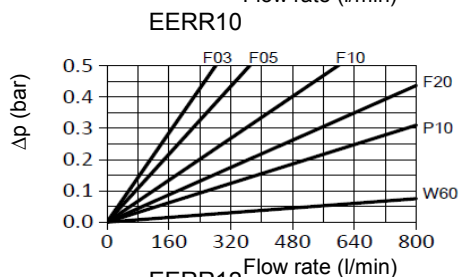
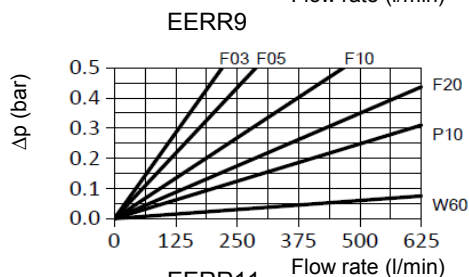
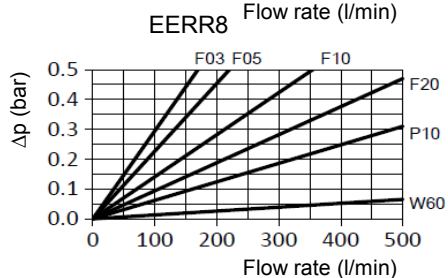
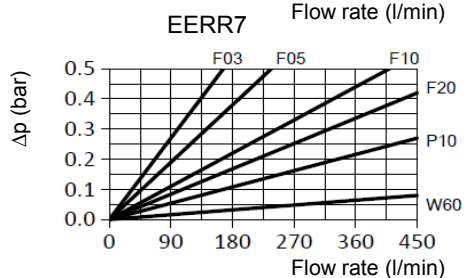
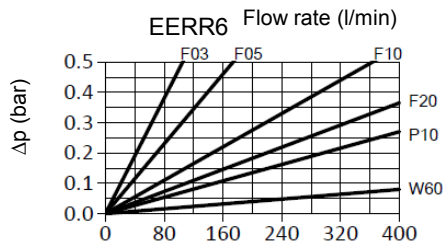
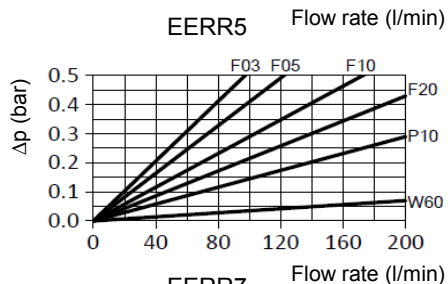
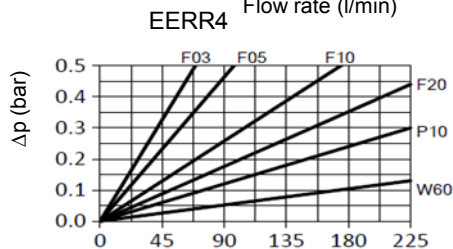
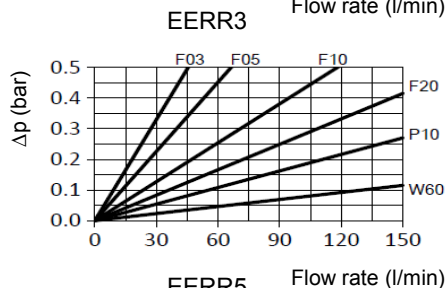
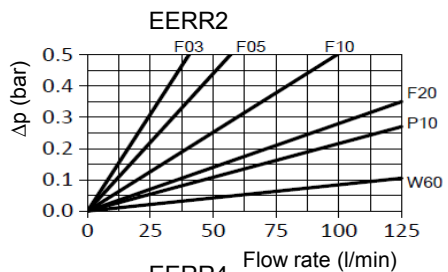
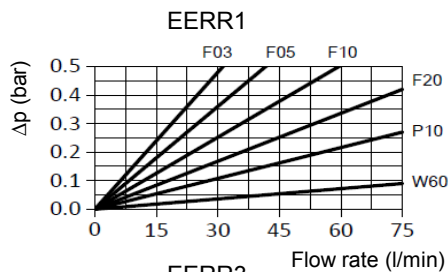
Pressure drop graph on by-pass valve



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Pressure Drop Graphs (Δp)

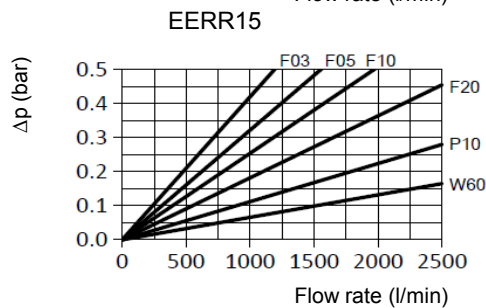
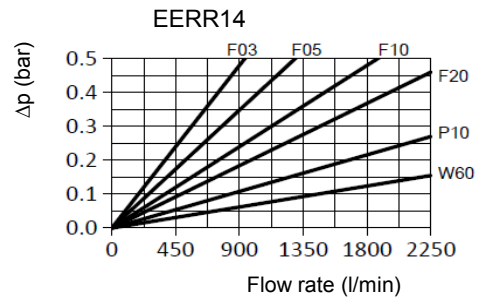
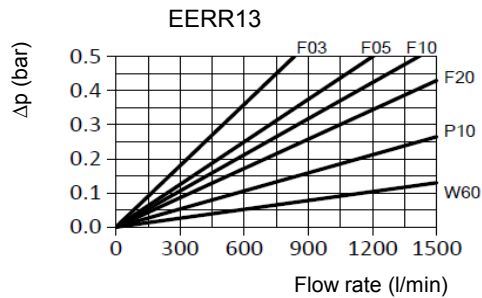
Pressure Drop with Clean Filter Elements (F, P and W filter media)



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Pressure Drop Graphs (Δp)

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

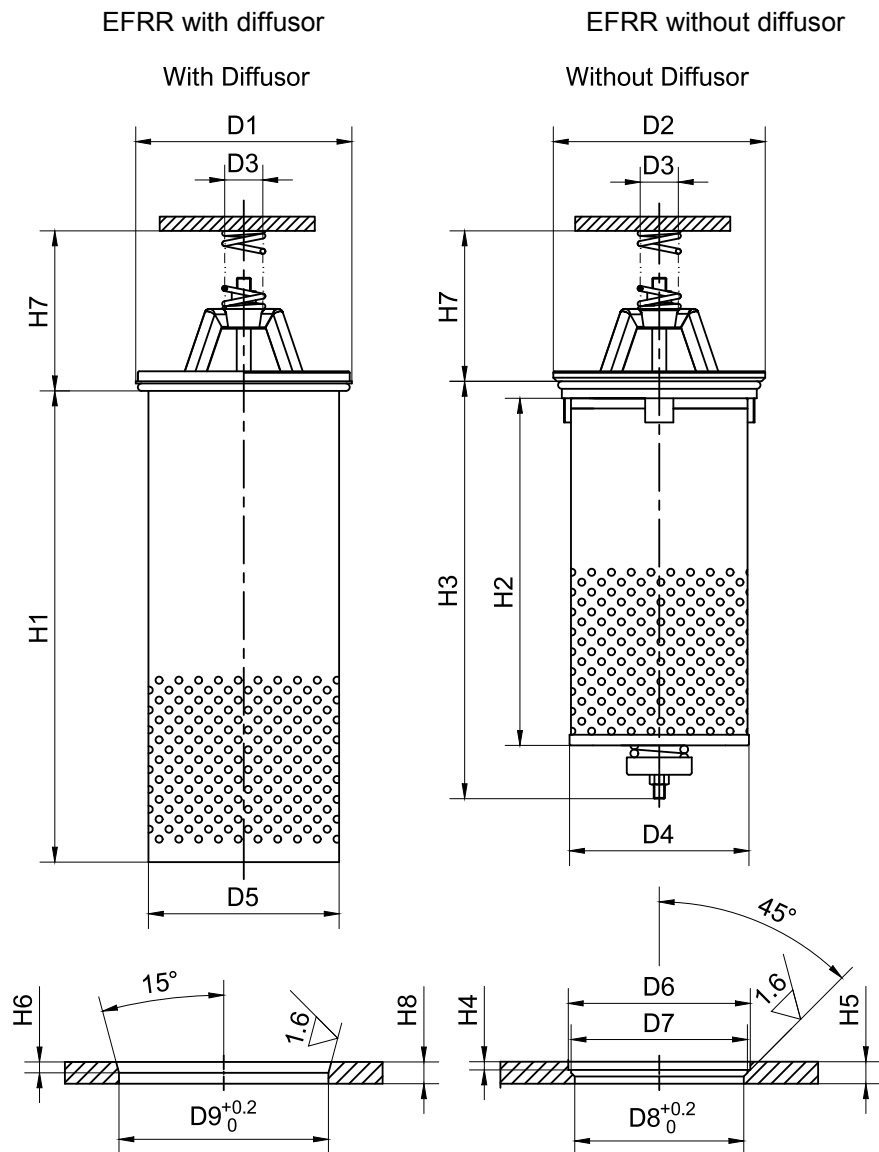


Flow rate (l/min)

Flow rate (l/min)

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Technical Drawings and Dimension



Type	D1	D2	D3	D4	D5	D6	D7	D8	D9	H1	H2	H3	H4	H5	H6	H7	H8
EFRR1	120	87	20	72	89	88	85	80	110	198	106	141	4	12	2.5		
EFRR2	120	87	20	72	89	88	85	80	110	198	150	185	4	12	2.5	62	12
EFRR3	120	87	20	72	89	88	85	80	110	248	200	235	4	12	2.5		
EFRR4	120	87	20	72	89	88	85	80	110	348	300	335	4	12	2.5		
EFRR5	155	125.5	25	106	132	126	123.5	117	145	266	190	243	5	15	2.5		
EFRR6	155	125.5	25	106	132	126	123.5	117	145	336	260	313	5	15	2.5	81	15
EFRR7	155	125.5	25	106	132	126	123.5	117	145	524	465	518	5	15	2.5		
EFRR8	185	150	25	126	165	151	149	139	178	300	210	275	5	18	2.5		
EFRR9	185	150	25	126	165	151	149	139	178	380	290	355	5	18	2.5		
EFRR10	185	150	25	126	165	151	149	139	178	480	390	455	5	18	2.5	103	15
EFRR11	185	150	25	126	165	151	149	139	178	580	478	540	5	18	2.5		
EFRR12	260	230	40	203	235	231	227	217	250.5	425	330	405	6	20	2.5		
EFRR13	260	230	40	203	235	231	227	217	250.5	640	545	620	6	20	2.5		
EFRR14	260	230	40	203	235	231	227	217	250.5	920	825	900	6	20	2.5	145	17
EFRR15	260	230	40	203	235	231	227	217	250.5	1185	1090	1165	6	20	2.5		

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Order Codes

Filter Assembly Series	A	B	-	C	D	-	E	F	Element Series	A	B	D
EFRR	1	B	-	05	P10	-	D	M	EERR	1	B	P10

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
1	100 l/min
2	140 l/min
3	160 l/min
4	210 l/min
5	250 l/min
6	400 l/min
7	450 l/min
8	500 l/min
9	650 l/min
10	850 l/min
11	1000 l/min
12	1300 l/min
13	1650 l/min
14	2250 l/min
15	2400 l/min

B Seal	
B	NBR
V	FPM

C By-pass Valve	
00	No
05	1.5 bar
X	Special

D Media Material	Filtration	Collapse Pressure
P10	Cellulose	10µm
F05	Fibreglass	7µm
F10	Fibreglass	12µm
F20	Fibreglass	21µm
W25	Wire Mesh	25µm
W60	Wire Mesh	60µm

E Diffusor	
Diffusor	Type
D	With Diffusor
0	Without Diffusor

F Magnet	
Magnet	Type
M	With Magnet
0	Without Magnet