

100 psi - **7 bar**
Standard50 gpm - **190 L/min****ESF1**

Model No. of filter in photograph: ESF1SCB15SC7Z10S

Features and Benefits

- Sustainable Cartridge Bowl with full ported quality protected die cast aluminum head for minimal pressure drop
- Reusable, plastic bowl with disposable element cartridge
- Eliminates disposal of oil filled, metal spin-on cans in landfill
- Quality Protected design to ensure filter bowl is not operating without a filter element installed
- Offered in pipe, SAE straight thread and ISO 228 porting
- SCB thread = 1.50-16UN-2B
- Visual gauge or electrical switch dirt alarms
- Available in 7" and 10" element lengths
- Available with NPTF inlet and outlet female test ports

Filter Specifications

Flow Rating:	Up to 50 gpm (190 L/min) for 150 SUS (32cSt) fluids	
Max. Operating Pressure:	100 psi (7 bar)	
Min. Yield Pressure:	200+ psi (10 bar), per NFPA T2.6.1	
Rated Fatigue Pressure:	Contact Factory	
Temperature Range:	-20°F to 225°F (-29°C to 107°C)	
Bypass Setting:	Cracking: 30 psi (2 bar)	Full Flow: 48 psi (3 bar)
Porting Head & Cap:	Die Cast Aluminum	
Element Case:	Plastic	
ESF1 Head:	982 Grams; 2.17 lbs	
Weight of ESF1-5SC:	3119.9 Grams; 6.88lbs	
Weight of ESF1-5SC10:	3833.2 Grams; 8.45lbs	
Element Change Clearance:	2.50" (65 mm)	

Filter Fluid Compatibility

Petroleum-Based Fluids:	Z-Media® and Anti-Static media (synthetic)
High Water Content:	All Z-Media® and Anti-Static media (synthetic)
Invert Emulsions:	10 and 25µ Z-Media® and all Anti-Static media (synthetic)
Water Glycols:	3, 5, 10, and 25µ Z-Media® and all Anti-Static media (synthetic)

Tested Against Industry Standards:

ISO 4548-14 – Cyclic Testing

ISO 3968 – Performance Testing

ISO 16889 – Performance Testing

BS EN 61373 – Vibration Testing

UL 1105 Spec – Impact Testing

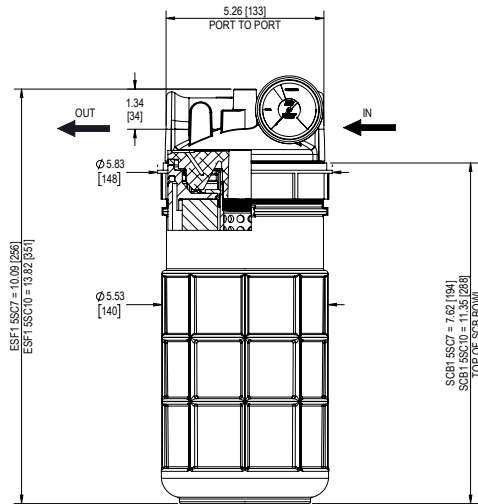
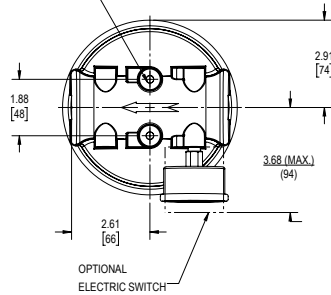
NFPA T2_06_01 – Static/Cyclic Testing

ISO 4548-13 – Static Testing

Eco-Spin Filter (ESF1)

ESF1

.31-18UNC-2B X .50 (13) DP.
OR
M8 X 1.25 X (13) DP.
(2) MOUNTING HOLES



ESF1 THREAD = 1.50-16 UN-2A

Element Performance and Dirt Holding Capacity

Particulate Elements	Filtration Ratio per ISO 16889		Using APC calibrated per ISO 11171	
	DHC(g)	$\beta_x (c) \geq 200$	K-Factor (psid/gpm)	
5SC7Z1	42	<4.0	0.41	
5SC7Z3	36	5.1	0.25	
5SC7Z5	40	8.2	0.17	
5SC7Z10	42	11.6	0.11	
5SC7Z25	50	19.7	0.09	
5SC10Z1	75	<4.0	0.24	
5SC10Z3	63	5.1	0.14	
5SC10Z5	70	8.2	0.10	
5SC10Z10	74	11.6	0.06	
5SC10Z25	88	19.7	0.05	

Filter Model Number Selection for ESF1:

ESF1							
Filter Series	SCB Bowl	Element	Media	Seals	Porting Options	Dirt Alarm Options	Additional Options

**Starting from the left to the right you will choose your MAF1 and work your way through each category as illustrated above.

***For element replacement, model number is constructed using boxes 3-5

Filter Series	SCB Bowl	Element
☐ ESF1	☐ SCB1	☐ 5SC7 = 7" Length ☐ 5SC10 = 10" Length
Media	Seals	Porting Options
☐ Z1 = 1 μ Synthetic ☐ Z3 = 3 μ Synthetic ☐ Z5 = 5 μ Synthetic	☐ Z10 = 10 μ Synthetic ☐ Z25 = 25 μ Synthetic ☐ Omit = Buna ☐ V = Viton	☐ P = 1-1/4" NPTF ☐ S = SAE-20 ☐ B = ISO 228 G-1-1/4"
Dirt Alarm Options	Additional Options	
☐ Omit = None ☐ Y2 = Visual Back-mounted tri-color gauge ☐ E5 = Electrical switch	☐ Omit = None ☐ L = Two 1/2" NPTF inlet and outlet female test ports	