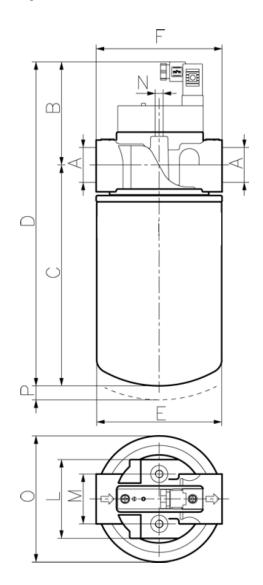
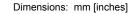
Series SPM 35-120 25 BAR (350 PSI) 20 BAR (290 PSI) for SPM 120



Dimensions:

type	А	B (O4)	B (E9)	B (E11)	С	D	E	F	L	М	N	0	Р
SPM 35	1/2"	43 [1.69]	78 [3.07]	95 [3.74]	168 [6.61]	246 [9.69]	96 [3.78]	95 [3.74]	60 [2.36]	38 [1.5]	M6	96 [3.78]	20 [0.79]
SPM 55	1"	43 [1.69]	78 [3.07]	95 [3.74]	233 [9.17]	311 [12.24]	96 [3.78]	95 [3.74]	60 [2.36]	38 [1.5]	M6	96 [3.78]	20 [0.79]
SPM 120	1 1⁄4"	51 [2.01]	86.5 [3.41]	95 [3.74]	210 [8.27]	297 [11.69]	138 [5.43]	140 [5.51]	94 [3.7]	50 [1.97]	M8	138 [5.43]	40 [1.57]



Spin-On Filter Series SPM 35-120 25 BAR (350 PSI), 20 BAR (290 PSI) for SPM120

Description:

Eaton's spin-on filters are designed to provide one of the highest cleanliness levels for hydraulic systems, featuring cartridges that are engineered to fit into many leading filter systems on the market.

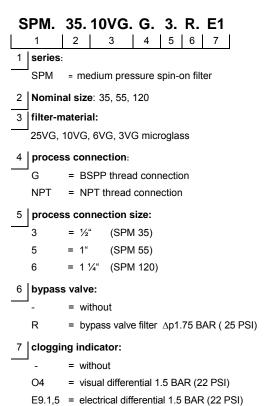
Series SPM filters are available with the following features:

- Compatible with a variety of mediums such as oils, fuels, emulsions, glycol water and synthetic fluids
- Cartridge pressure is 25 bar (350 psi) & 20 bar (290 psi) for SPM120 size
- Cartridge replacement does not require any tooling or equipment to optimize maintenance efficiency
- · Other configurations are available upon request

Eaton's spin-on filters are manufactured and tested according to ISO 2941, ISO 3723 and ISO 2942.

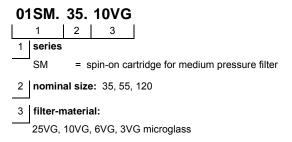
1. Type index:

1.1. Complete filter: (ordering example)



1.2. Filter element: (ordering example)

E11.1,5 = visual-electrical 1.5 BAR (22 PSI)



Technical data:

operating temperature: operating medium max. operating pressure: opening pressure by-pass valve: gasket: -25°C to +110°C (-13°F to +230°F) mineral oil, other media on request 25 BAR (350 PSI), 20 BAR (290 PSI) Δ p1.75 BAR (25 PSI) Nitrile (NBR)

Classified under the Pressure Equipment Directive 2014/68/EC for mineral oil (fluid group 2), Article 4, Para. 3. Classified under ATEX Directive 2014/34/EC according to specific application (see questionnaire sheet-no. 34279-4).

Pressure drop flow curves:

Curves are calculated in accordance with ISO 3968 and are valid for clean filtering elements.

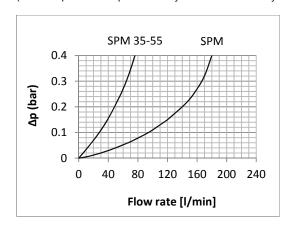
 ΔP changes along with the density in presence of an eddy flow, and along with the dynamic viscosity in presence of a laminar flux. Curves are valid for mineral oils with density of 0,86 kg/dm³ and a kinematic viscosity of 30 mm²/sec (cSt) (139 SUS).

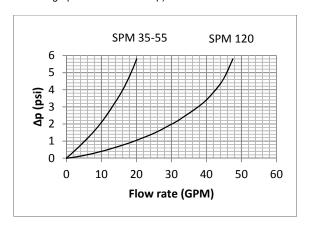
When choosing the filtering medium consider the pressure losses deriving from the flow rate:

Between 0,3-0,5 bar (4,35-7,25 psi) for filters fitted on return line.

Between 1-1,5 bar (14,5-22 psi) for filters fitted on pressure line.

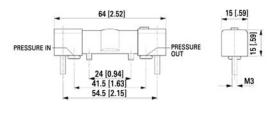
(The total pressure drop of assembly is to be calculated by sum of housing Δp and the element Δp)





Clogging Indicator:

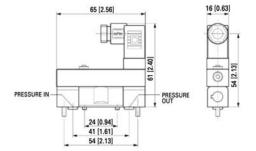
Dimensions: mm [inches]



Type: O4(visual differential)
Case: Trogramit
Gasket: o-ring NBR (viton on request)
Max working temperature: 110°C (+230°F)
Setting: 1.5 bar (22 psi)

Type:

Setting:



Case: Trogramit

Max switched voltage: 200 V (DC) – 300 V (AC)

Max switched current: 1.5 A

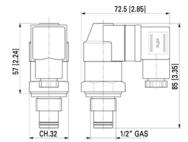
Protection rate: IP65

Gasket: 0-ring NBR (viton on request)

Max working temperature: 125°C (+257°F)

E9 (electrical differential)

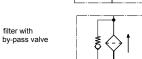
1.5 bar (22 psi)



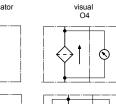
Type: E11 (visual-electrical)
Case: brass
Gasket: bonded seal
Max switched voltage: 250 V
Max switched current: 5 A
Protection rate: IP65
Setting: 1.5 bar (22 psi)

Symbols:





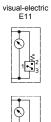
without indicator











Test methods: Filter elements are tested according to the following ISO standards:

ISO 2941 ISO 2942 ISO 2943	Verification of collapse/burst resistance Verification of fabrication integrity Verification of material compatibility with fluids
ISO 3723 ISO 3724	Method for end load test Verification of flow fatigue characteristics
ISO 3968 ISO 16889	Evaluation of pressure drop versus flow characteristics Multi-pass method for evaluating filtration performance

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