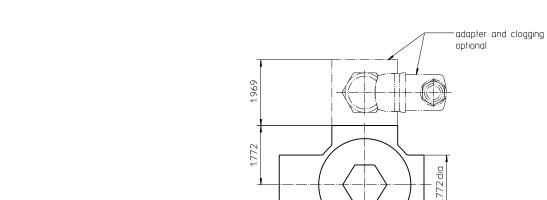
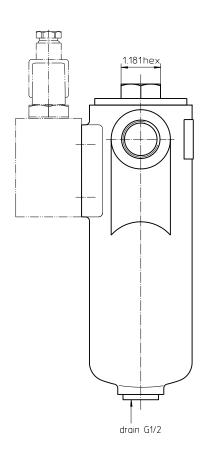
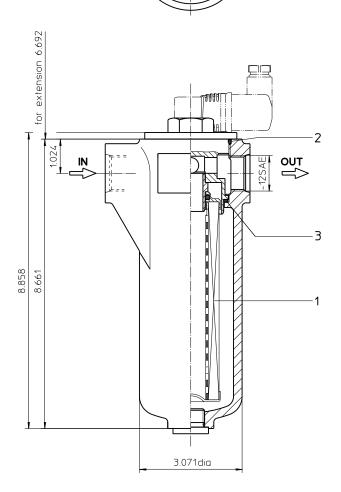
Series LF 63 363 PSI







Weight: approx. 5.5 lbs.

Dimensions: inches

Designs and performance values are subject to change.



Pressure Filter Series LF 63 363 PSI

Description:

In-line filters of the type LF 63 are suitable for a working pressure up to 363 PSI. Pressure peaks are absorbed with a sufficient margin of safety. It can be used as suction filter, pressure filter and return-line filter.

The filter element consists of star-shaped, pleated filter material, which is supported on the inside by a perforated core tube and is bonded to the end caps with a highquality adhesive. The flow direction is from outside to inside.

For cleaning the stainless steel mesh element (see special leaflets 21070-4 and 39448-4) or changing the filter element, remove the cover and take out the element. The mesh elements are not guaranteed to maintain 100% performance after cleaning.

For filtration finer than 40 μm , use the disposable elements made of microglass. Filter elements as fine as 5 µm(c) are available; finer filter elements are available upon request.

Eaton filter elements are known for a high intrinsic stability and an excellent filtration capability, a high dirtretaining capacity and a long service life.

Eaton filter can be used for petroleum-based fluids, HW emulsions, water glycols, most synthetic fluids and lubrication fluids. Consult factory for specific fluid applications.

The internal valve is integrated in the filter cover. After reaching the bypass pressure setting, the bypass valve will send unfiltered partial flow around the filter.

Ship classifications available upon request.

Type index:

Complete filter: (ordering example)

LF. 63. 10VG. 30. E. P. -. UG. 4. -. -. AE 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 1 series: LF = in-line filter 2 nominal size: 63 3 filter-material: 80G, 40G, 25G stainless steel wire mesh 25VG, 16VG, 10VG, 6VG, 3VG microglass 25API, 10API microglass according to API 4 | filter element collapse rating: 30 = Δp 435 PSI

5 filter element design:

Ε = single end open

6 sealing material: = Nitrile (NBR)

= Viton (FPM)

7 filter element specification:

= standard VA = stainless steel

IS06 = for HFC application, see sheet-no. 31601

8 process connection:: UG = thread connection

9 process connection size:

= -12 SAE

10 | filter housing specification:

= standard

11 pressure vessel specification:

= standard (PED 2014/68/EU)

12 internal valve:

= without

= with bypass valve ∆p 51 PSI

13 clogging indicator or clogging sensor:

- = without AOR = visual, see sheet-no.1606 AOC = visual, see sheet-no.1606

AE = visual-electric, see sheet-no.1615 VS5 = electronic, see sheet-no.1619

To add an indicator/sensor to your filter, use the corresponding indicator data sheet to find the indicator details and add them to the filter assembly model code.

Filter element: (ordering example)

01NL, 63, 10VG, 30, E, P, -1 2 3 4 5 6 7

1 series:

01NL = standard filter element according to DIN 24550, T3

2 nominal size: 63

3 - 7 | see type index complete filter

Technical data:

operating temperature: +14 °F to +212 °F

operating medium: mineral oil, other media on request

max. operating pressure: 363 PSI test pressure: 522 PSI

process connection: thread connection

housing material: aluminium-cast, steel (filter cover)

sealing material: Nitrile (NBR) or Viton (FPM), other materials on request

installation position: vertical measuring connections: BSPP ¼ drain connection: BSPP ½ volume tank: .19 Gal.

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

Pressure drop flow curves:

Filter calculation/sizing

The pressure drop of the assembly at a given flow rate Q is the sum of the housing Δp and the element Δp and is calculated as follows:

 Δp assembly = Δp housing + Δp element Δp housing = (see Δp = f (Q) - characteristics)

$$\Delta p_{\, element} \, (PSI) = \quad Q \, \left(GPM \right) \, x \, \, \frac{MSK}{1000} \, \left(\frac{PSI}{GPM} \right) x \, \, \nu \left(SUS \right) \, x \, \, \frac{\rho}{0.876} \, \left(\frac{kg}{dm^3} \right)$$

For ease of calculation our Filter Selection tool is available online at www.eaton.com/hydraulic-filter-evaluation

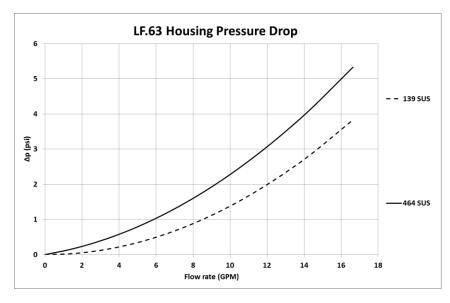
Material gradient coefficients (MSK) for filter elements

The material gradient coefficients in psi/gpm apply to mineral oil (HLP) with a density of 0.876 kg/dm³ and a kinematic viscosity of 139 SUS (30 mm²/s). The pressure drop changes proportionally to the change in kinematic viscosity and density.

LF	VG			G			API			
	3VG	6VG	10VG	16VG	25VG	25G	40G	80G	10API	25API
63	4.214	2.926	1.873	1.631	1.114	0.1131	0.1056	0.0723	1.329	0.696

$\Delta p = f(Q)$ – characteristics according to ISO 3968

The pressure drop characteristics apply to mineral oil (HLP) with a density of 0.876 kg/dm³. The pressure drop changes proportionally to the density.

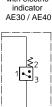


Symbols:

without indicator

with bypass valve





with electric



with visual-electric

with visual-electric indicator AE70 / AE80 / AE90







sensor VS5

with electronic

Spare parts:

item	qty.	designation	dimension	article no.		
1	1	filter element	01NL.63			
3	1	O-ring	56 x 3	305072 (NBR)	305322 (FPM)	
4	1	O-ring	48 x 3	304357 (NBR)	304404 (FPM)	

Test methods:

Filter elements are tested according to the following ISO standards:

ISO 2941	Verification of collapse/burst resistance
ISO 2942	Verification of fabrication integrity
ISO 2943	Verification of material compatibility with fluids
ISO 3723	Method for end load test
ISO 3724	Verification of flow fatigue characteristics

ISO 3968 Evaluation of pressure drop versus flow characteristics ISO 16889 Multi-pass method for evaluating filtration performance

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For more information, please email us at filtration@eaton.com or visit www.eaton.com/filtration

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