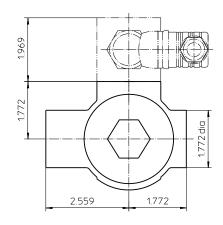
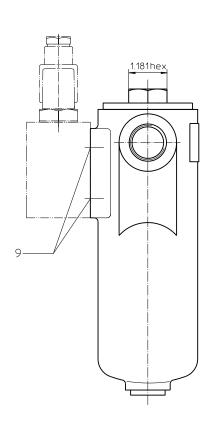
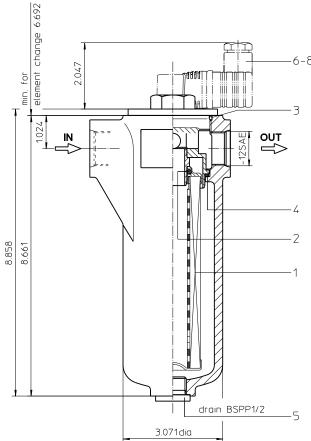
Series LF 63 363 PSI







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 high-quality 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:

 $30 = \Delta p \, 435 \, PSI$

5 filter element design:

= single end open Е

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:

4 = -12 SAE

10 filter housing specification:

= standard

11 pressure vessel specification:

= standard (PED 2014/68/EU)

12 internal valve:

= without

= with bypass valve Δp 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

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 bar test pressure: 522 bar

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.eatonpowersource.com/calculators/filtration/

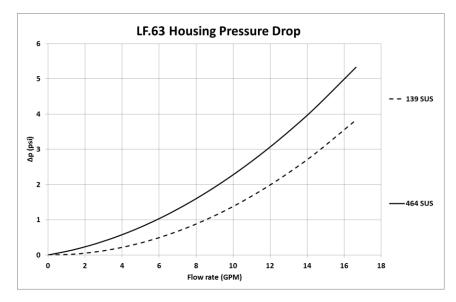
Material gradient coefficients (MSK) for filter elements

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 electric indicator AE 30 and AE 40



with visual-electric indicator AE 50 and AE 62



with visual indicator OP

with visual-electric indicator OE

with electronic sensor VS5

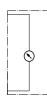


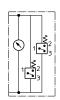














Spare parts:

item	qty.	designation	dimension	articl	article no.		
1	1	filter element	01NL.63				
2	1	O-ring	22 x 3,5	304341 (NBR)	304392 (FPM)		
3	1	O-ring	56 x 3	305072 (NBR)	305322 (FPM)		
4	1	O-ring	48 x 3	304357 (NBR)	304404 (FPM)		
5	1	screw plug	BSPP ½	304678			
6	1	clogging indicator, visual	AOR or AOC	see sheet no. 1606			
7	1	clogging indicator, visual-electric	AE	see sheet no. 1615			
8	1	clogging indicator, electronic	VS5	see sheet no. 1619			
9	2	screw plug	BSPP 1/8	305	305496		

item 9 execution only without clogging indicator or clogging sensor

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

North America

North America 44 Apple Street Tinton Falls, NJ 07724 Toll Free: 800 656-3344 (North America only) Tel: +1 732 212-4700

Europe/Africa/Middle East

Auf der Heide 2 53947 Nettersheim, Germany Tel: +49 2486 809-0

Friedensstraße 41 68804 Altlußheim, Germany Tel: +49 6205 2094-0

An den Nahewiesen 24 55450 Langenlonsheim, Germany Tel: +49 6704 204-0 China

No. 3, Lane 280, Linhong Road Changning District, 200335 Shanghai, P.R. China Tel: +86 21 5200-0099

Singapore

100G Pasir Panjang Road #07-08 Singapore 118523

Tel: +65 6825-1668

Brazil

Av. Ermano Marchetti, 1435 -Água Branca, São Paulo - SP, 05038-001, Brazil Tel: +55 11 3616-8461 For more information, please email us at *filtration* @eaton.com or visit www.eaton.com/filtration

© 2019 Eaton. All rights reserved. All trademarks and registered trademarks are the property of their respective owners. All information and recommendations appearing in this brochure concerning the use of products described herein are based on tests believed to be reliable. However, it is the user's responsibility to determine the suitability for his own use of such products. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Eaton as to the effects of such use or the results to be obtained. Eaton assumes no liability arising out of the use by others of such products. Nor is the information herein to be construed as absolutely complete, since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

