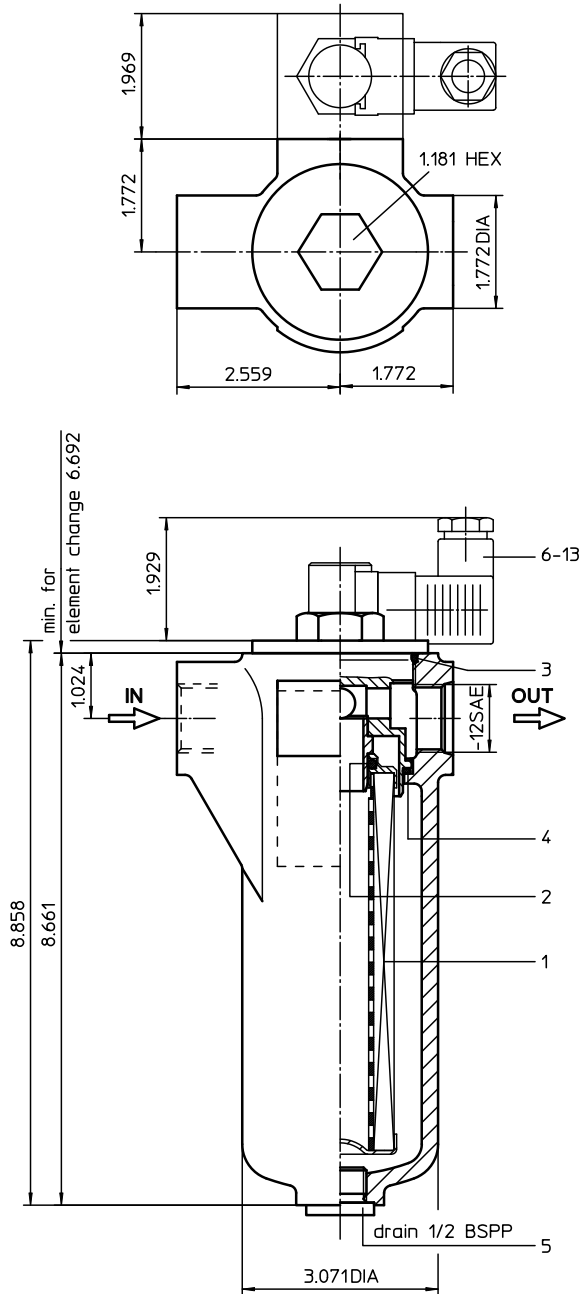


# PRESSURE FILTER

## Series LF 63 363 PSI

Sheet No.  
**1109 H**



### 1. Type index:

#### 1.1. 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
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**1 series:**

LF = in-line filter

**2 nominal size: 63**

**3 filter-material and filter-fineness:**

80 G = 80  $\mu\text{m}$ , 40 G = 40  $\mu\text{m}$ , 25 G = 25  $\mu\text{m}$  stainless steel wire mesh  
 25 VG = 20  $\mu\text{m}_{(c)}$ , 16 VG = 15  $\mu\text{m}_{(c)}$ , 10 VG = 10  $\mu\text{m}_{(c)}$ ,  
 6 VG = 7  $\mu\text{m}_{(c)}$ , 3 VG = 5  $\mu\text{m}_{(c)}$  Interpor fleece (glass fiber)  
 25 API = 20  $\mu\text{m}$ , 10 API = 10  $\mu\text{m}$  Interpor fleece (glass fiber) acc. to API

**4 resistance of pressure difference for filter element:**

30 =  $\Delta p$  435 PSI

**5 filter element design:**

E = single-end open

**6 sealing material:**

P = Nitrile (NBR)  
 V = Viton (FPM)

**7 filter element specification: (see catalog)**

- = standard  
 VA = stainless steel  
 IS06 = see sheet-no. 31601  
 IS07 = see sheet-no. 31602

**8 connection:**

UG = thread connection

**9 connection size:**

4 = -12 SAE

**10 filter housing specification: (see catalog)**

- = standard  
 IS06 = see sheet-no. 31605

**11 internal valve**

- = without  
 S1 = with by-pass valve  $\Delta p$  51 PSI

**12 clogging indicator or clogging sensor:**

- = without  
 AOR = visual, see sheet-no. 1606  
 AOC = visual, see sheet-no. 1606  
 AE = visual-electrical, see sheet-no. 1615  
 VS1 = electronical, see sheet-no. 1617  
 VS2 = electronical, see sheet-no. 1618

#### 1.2. Filter element: (ordering example)

**01NL. 63. 10VG. 30. E. P. -**

1	2	3	4	5	6	7
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**1 series:**

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

**2 nominal size: 63**

**3 - 7 see type index-complete filter**

weight: 4.40 lbs.

Changes of measures and design are subject to alteration!

EDV 08/12

## 2. Spare parts:

item	qty.	designation	dimension	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	½ BSPP	304678	
6	1	clogging indicator, visual	AOR or AOC	see sheet-no. 1606	
7	1	clogging indicator, visual-electrical	AE	see sheet-no. 1615	
8	1	clogging sensor, electronical	VS1	see sheet-no. 1617	
9	1	clogging sensor, electronical	VS2	see sheet-no. 1618	
10	1	O-ring	15 x 1,5	315357 (NBR)	315427 (FPM)
11	1	O-ring	22 x 2	304708 (NBR)	304721 (FPM)
12	1	O-ring	14 x 2	304342 (NBR)	304722 (FPM)
13	2	screw plug	1/8 BSPP	305496	

item 13 execution only without clogging indicator or clogging sensor

## 3. 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.

The filter is mounted in such a way that inlet and outlet are on the same level. 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.

The particles are held back on the outside. For cleaning (see special leaflet 21070-4) the mesh element respectively to change the glass fiber element remove the cover and take out the element.

Filter finer than 40 µm should use throw-away elements made of paper or Interpor fleece (glass fiber). Filter elements as fine as 5 µm<sub>(c)</sub> are available; finer filter elements on request.

Internormen Product Line filter elements are known as elements with a high intrinsic stability and an excellent filtration capability, a high dirt-retaining capacity and a long service life.

Internormen Product Lin filter are suitable for all petroleum based fluids, HW-emulsions, most synthetic hydraulic fluids and lubrication oils.

Approvals according to TÜV, and the major „Shipyards Classification Societies“ D.N.V.; B.V.; G.L.; L.R.S.; R.I.N.A.; A.B.S. and others are possible.

The internal valve is integrated in the filter cover.

After reaching the opening pressure the by-pass valve causes that an unfiltered partial flow passes the filter.

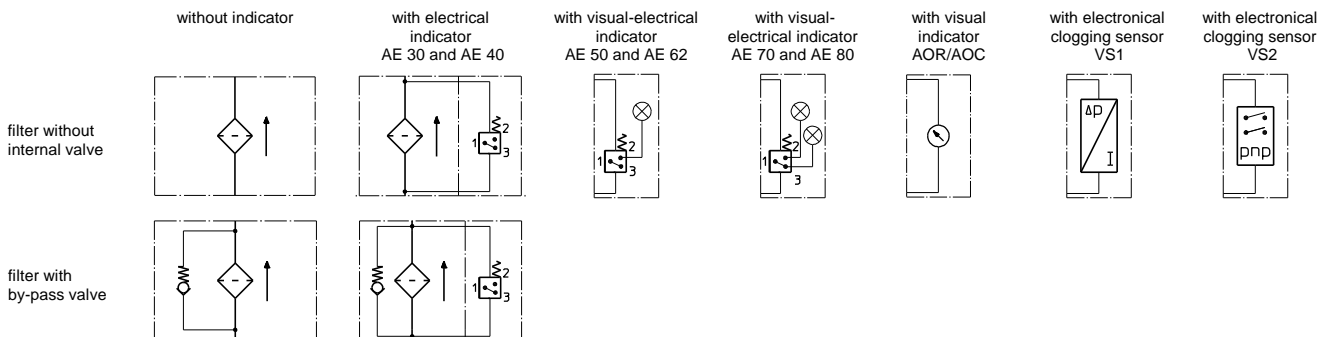
## 4. Technical data:

temperature range:	+14°F to +176°F (for a short time +212°F)
operating medium:	mineral oil, other media on request
max. operating pressure:	363 PSI
test pressure:	522 PSI
connection system:	thread connection
housing material:	aluminium-cast
sealing material:	Nitrile (NBR) or Viton (FPM), other materials on request
installation position:	vertical
mini-measuring connection:	¼ BSPP
evacuation-or bleeder-connection:	½ BSPP
volume tank:	.18 Gal.

Classified under the Pressure Equipment Directive 97/23/EC for mineral oil (fluid group 2), Article 3, Para. 3.

Classified under ATEX Directive 94/9/EC according to specific application (see questionnaire sheet-no. 34279-4).

## 5. Symbols:



**6. Pressure drop flow curves:** Precise flow rates see 'Interactive Product Specifier', respectively Δp-curves; depending on filter fineness and viscosity.

## 7. 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