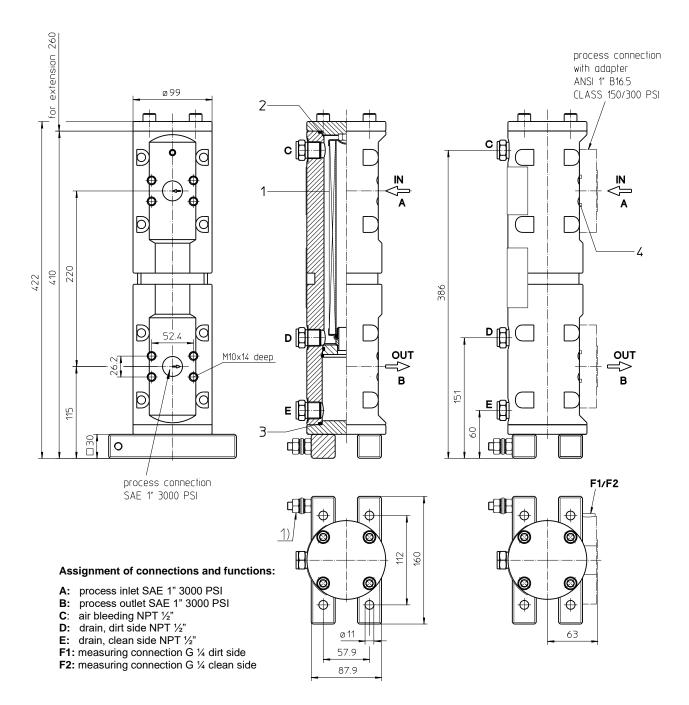
Series ELA 106 NPS 1" CLASS 150-300 PSI



1) Connection for the potential equalization, only for application in the explosive area.

Weight: approx. 18 kg

Dimensions: mm

Designs and performance values are subject to change.



Pressure Filter Series ELA 106 NPS 1" CLASS 150-300 PSI

Description:

Stainless steel-inline filter series ELA 106 have a working pressure up to 40 bar. Pressure peaks can be absorbed with a sufficient safety margin.

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 disposable elements made of microglass. Filter elements as fine as 5 $\mu m(c)$ 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 dirt-retaining capacity and a long service life.

Eaton filter elements are suitable for all petroleum based fluids, HW-emulsions, most synthetic hydraulic fluids and lubrication oils.

Ship classifications available upon request.

Type index:

Complete filter: (ordering example)

ELA. 106. 10VG. 30. E. P. VA. FS. 5. VA. IS21.1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |

12 | 13

1 series:

ELA = stainless steel-inline filter according to ASME-code

2 nominal size: 106

3 filter material:

80G, 40G, 25G, 10G stainless steel wire mesh 25VG, 16VG, 10VG, 6VG, 3VG microglass 25API, 10API microglass according to API

4 filter element collapse rating:

 $= \Delta p 30$ bar

5 filter element design:

E = single-end open

6 sealing material:

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

7 | filter element specification:

= standardVA = stainless steel

8 process connection:

FS = flange connection SAE 3000 PSI (standard)

FA1 = flange ANSI CLASS 300 PSI ¹⁾
FA2 = flange ANSI CLASS 300 PSI ²⁾
FA11 = flange ANSI CLASS 150 PSI ¹⁾
FA12 = flange ANSI CLASS 150 PSI ²⁾

9 process connection size:

5 = 1"

10 | filter housing specification:

VA = stainless steel, see sheet-no. 70657

11 | specification pressure vessel:

IS21 = ASME VIII Div.1 with U-stamp, see sheet-no. 43415 IS23 = ASME VIII Div.1 without U-stamp, see sheet-no. 55218

12 shut-off:

= without

13 clogging indicator:

= without

 $^{1)}$ sealing surface Rz = 160 μ m (not finer than 40 μ m)

Filter element: (ordering example)

01NLM. 106. 10VG. 30. E. P. VA

1 series:

01NLM =

= standard filter element according to DIN 24550, T3

with hex nut

2 nominal size: 106

3 - 7 see type index-complete filter

²⁾ sealing surface Rz = 16 µm

Technical data:

operating temperature: -10°C to +100°C

operating medium: mineral oil, other media on request

max. operating pressure (pressure vessel): 40 bar

test pressure acc. to ASME VIII Div. 1: 1,3 x operating pressure = 52 bar test pressure acc. to API 614, Chapter 1: 1,5 x operating pressure = 60 bar standard-process connection: flange connection SAE 3000 PSI stainless steel, see sheet-no.70657

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

installation position: vertical bleeder connection: NPT $\frac{1}{2}$ " drain connection dirt side: NPT $\frac{1}{2}$ " drain connection clean side: NPT $\frac{1}{2}$ " volume tank: 0,9 l

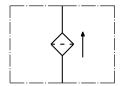
operating pressure adapter flanges: according to B16.5 CLASS 150 PSI (max. 16 bar) according to B16.5 CLASS 300 PSI (max. 40 bar)

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: Precise flow rates see 'Interactive Product Specifier', respectively

Δp-curves; depending on filter fineness and viscosity.

Symbol:



Spare parts:

item	qty.	designation	dimension	article-no.	
1	1	filter element	01.NLM.106		
2	1	O-ring	60 x 3.5	304377 (NBR)	304398 (FPM)
3	1	O-ring	60 x 3.5	304377 (NBR)	304398 (FPM)
4	2	O-ring (only with execution with adapter)	32,9 x 3,53	318850 (NBR)	338231 (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



18684 Lake Drive East Chanhassen, MN 55317 Toll Free: +1 800-656-3344 (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

Greater China No. 7, Lane 280, Linhong Road Changning District, 200335 Shanghai, P.R. China Tel: +86 21 2899-3687

Asia-Pacific 100G Pasir Panjang Road #07-08 Interlocal Centre Singapore 118523 Tel: +65 6825-1620

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

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