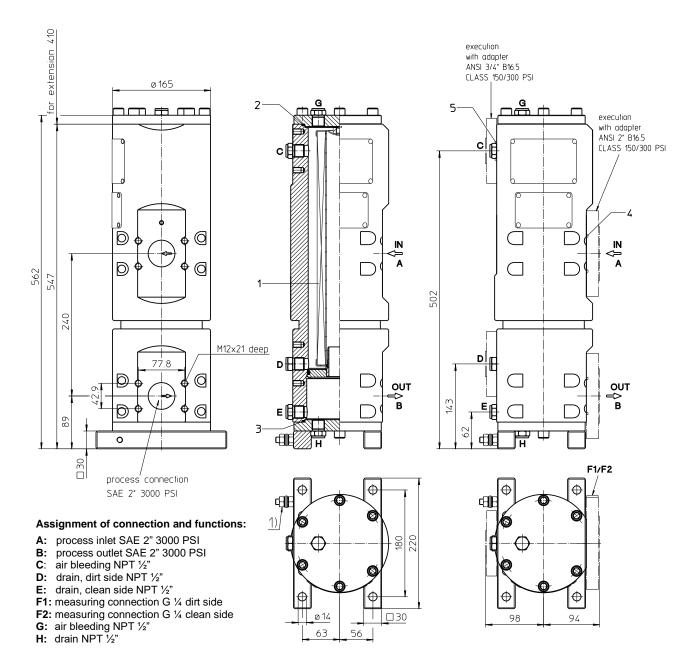
Series ELA 406 NPS 2" CLASS 150-300 PSI



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

Weight: approx. 56 kg

Dimensions: mm

Designs and performance values are subject to change.



Pressure Filter Series ELA 406 NPS 2" CLASS 150-300 PSI

Description:

Stainless steel-inline filter series ELA 406 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 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 disposable elements made of microglass. Filter elements as fine as 5 µm(c) are available; finer filter elements are available upon

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

Ship classifications available upon request.

Type index:

Complete filter: (ordering example)

ELA. 406. 10VG. 30. E. P. VA. FS. 8. -. VA. 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 IS21. -. 12 | 13 | 14 | 1 series: ELA = stainless steel-inline filter according to ASME-code 2 nominal size: 406 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: 30 = $\Delta p 30 bar$ 5 | filter element design: = single-end open Ε 6 sealing material: = Nitrile (NBR) = Viton (FPM) 7 filter element specification: = standard = stainless steel 8 process connection: FS = flange connection SAE 3000 PSI (standard) = flange ANSI CLASS 300 PSI 1) FA1 = flange ANSI CLASS 300 PSI 2) FA2 FA11 = flange ANSI CLASS 150 PSI 1) FA12 = flange ANSI CLASS 150 PSI 2) 9 process connection size: = standard (NPT ½")

10 air bleeding/drain dirt side:

FA1 = flange ANSI 3/4" CLASS 300 PSI 1) FA2 = flange ANSI 3/4" CLASS 300 PSI 2) FA11 = flange ANSI 3/4" CLASS 150 PSI 1) FA12 = flange ANSI 3/4" CLASS 150 PSI 2)

11 filter housing specification:

= stainless steel, see sheet-no. 70657

12 | specification pressure vessel:

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

13 shut-off:

= without

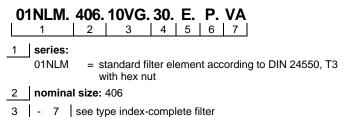
14 clogging indicator:

= without

¹⁾ sealing surface Rz = 160 μ m (not finer than 40 μ m)

²⁾ sealing surface Rz = 16 µm

Filter element: (ordering example)



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:

test pressure acc. to API 614, Chapter 1:
standard-process connection:
housing material:

1,3 x operating pressure = 52 bar
1,5 x operating pressure = 60 bar
flange connection SAE-flange 3000 PSI
stainless steel, see sheet-no. 70657

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

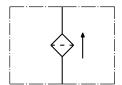
operating pressure adapter flanges: according to B16.5 CLASS 150 PSI (max. 16 bar) according to B16.5 CLASS 300 PSI (max. 40 bar)

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.NLM406		
2	1	O-ring	120 x 3.5	305146 (NBR)	305202 (FPM)
3	1	O-ring	120 x 3.5	305146 (NBR)	305202 (FPM)
4	2	O-ring (only with execution with adapter)	32,9 x 3,53	318850 (NBR)	338231 (FPM)
5	2	O-ring (only with execution with adapter)	24,99 x 3,53	304381 (NBR)	315784 (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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