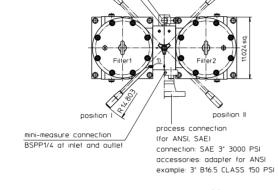
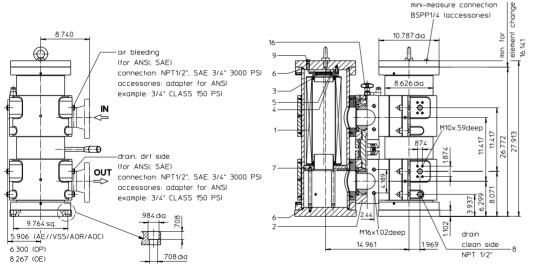


Position I: Filter 1 in operation Position II: Filter 2 in operation



position I

position I



STAINLESS STEEL-PRESSURE FILTER, change-over Series EDA 1014 NPS 3" CLASS 150 PSI

Sheet No. 2175 D

```
1.1. Complete filter: (ordering example)
EDA. 1014. 10VG. 10. B. P. VA. FS. A. -. -. AE. AV. IS21. F. F
  1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
1 series:
      EDA = stainless steel-pressure filter change-over, according to ASME-code
 2 nominal size: 1014
3 filter-material and filter- fineness:
      80 G = 80 µm, 40 G = 40 µm, 25 G = 25 µm, 10 G = 10 µm stainless steel wire mesh
      25 \text{ VG} = 20 \ \mu\text{m}_{(c)}, 16 \text{ VG} = 15 \ \mu\text{m}_{(c)}, 10 \text{ VG} = 10 \ \mu\text{m}_{(c)}, 6 \text{ VG} = 7 \ \mu\text{m}_{(c)}, 3 \text{ VG} = 5 \ \mu\text{m}_{(c)} microglass
      25 API = 20 µm, 10 API = 10 µm microglass according to API
      10 P = 10 um paper
 4 resistance of pressure difference for filter element:
      10 = Ap 145 PSI
 5 filter element design:
     B = both-sides open
 6 sealing material:
      P = Nitrile (NBR),
                               V = Viton (FPM)
 7 | filter element specification:
         = standard.
                                VA = stainless steel
 8 process connection:
      FS = SAE-flange connection 3000 PSI
      FA11 = ANSI-flange connection CLASS 150 PSI, sealing surface rough grind 1600-3600 μin
      FA12 = ANSI-flange connection CLASS 150 PSI, sealing surface rough grind < 640 µin
 9 process connection size:
      A = 3"
 10 | filter housing specification: (material) see sheet-no. 55050
          = standard, per according to specification pressure vessel DGRL (1.4404) / ASME type 316L
 11 internal valve:
         without.
                                S1 = with by-pass valve ∆p 51 PSI
 12 clogging indicator or clogging sensor:
          = without,
                                                         = visual, see sheet-no. 1628
      AOR = visual, see sheet-no. 1606.
                                                     OE = visual-electrical, see sheet-no. 1628
      AOC = visual, see sheet-no. 1606,
                                                     VS1 = electronical, see sheet-no. 1607
      AE = visual-electrical, see sheet-no. 1609.
                                                     VS2 = electronical, see sheet-no, 1608
 13 shut-off valve:
           = without.
                               AV = shut-off valve, see sheet-no, 1655
 14 | specification pressure vessel:
          = standard (PED 2014/68/EU)
      IS20 = ASME VIII Div.1 with ASME equivalent material, see sheet-no. 55217
      IS21 = ASME VIII Div.1 with U-stamp, see sheet-no. 43415
      IS23 = ASME VIII Div.1 without U-stamp, see sheet-no. 55218
 15 switch lever:
```

1.2. Filter element: (ordering example)

01NR. 1000. 10VG. 10. B. P. VA 4 5 6 7

1 series:

01NR. = standard-return-line filter element according to DIN 24550, T4

2 nominal size: 1000

16 air bleeding/drain:

1. Type index:

7 see type index complete filter

= toward IN/OUT

opposite IN/OUT

= toward IN/OUT opposite IN/OUT

weight: approx. 816 lbs.

Changes of measures and design are subject to alteration!



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2. Accessories:

- SAE-counter flanges, see sheet-no. 1652
- adapter for ANSI-connection B16.5 CLASS 150 PSI, see sheet-no. 1658
- measure- and bleeder-connections, see sheet-no. 1650
- drain- and bleeder connection, see sheet-no. 1659

3. Spare parts:

item	qty.	designation	dimension	article-no.
1	2	filter element	01NR.1000	
2	1	change over UKK	3"	
3	4	O-ring	90 x 4	306941 (NBR) 307031 (FPM)
4	2	O-ring	62 x 4	308045 (NBR) 311472 (FPM)
5	2	circlip	DIN472-75x2,5-1.4310	318481
6	4	O-ring	200 x 4	334555 (NBR) 334554 (FPM)
7	2	O-ring	185 x 6	335381 (NBR) 335306 (FPM)
8	12	screw plug	NPT ½	307766
9	2	screw plug	BSPP 1/4	306968
10	1	clogging indicator, visual	AOR or AOC	see sheet-no. 1606
11	1	clogging indicator, visual-electrical	OP	see sheet-no. 1628
12	1	clogging indicator, visual-electrical	OE	see sheet-no. 1628
13	1	clogging indicator, visual-electrical	AE	see sheet-no. 1609
14	1	clogging sensor, electronical	VS5	see sheet-no. 1641
15	2	screw plug	BSPP 1/4	306968
16	1	pressure balance valve	3/8"	310316

item 15 execution only with clogging indicator or clogging sensor

4. Description:

Stainless steel-pressure filters, change-over series EDA 1014 are suitable for operating pressure up to 580 PSI.

Pressure peaks can be absorbed with a sufficient margin o safety.

Change-over ball valve which, integrated in the middle of the housing, makes it possible to switch from the dirty filter-side to the clean filter-side without interrupting operation.

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 the inside.

These filters can be installed as suction filters.

For cleaning (see special leaflet 21070-4 and 34448-4) the mesh element respectively to change the microglass element remove the cover and take out the element.

Filter finer than 40 µm should use throw-away elements made of paper or microglass. Filter elements as fine as 5 µm(c) are available; finer filter elements on request

Eaton filter elements are known as elements with a high intrinsic stability and an excellent filtration capability, a high dirt-retaining capacity

+14°F to +212°F

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

Ship classifications available upon request.

5. Technical data:

operating temperature:

operating medium: mineral oil, other media on request max, operating pressure (pressure vessel): 580 PSI

1,43 x operating pressure = 827 PSI test pressure acc. to PED 2014/68/EU: test pressure acc. to ASME VIII Div. 1: 1,3 x operating pressure = 754 PSI test pressure acc. to API 614, Chapter 1: 1,5 x operating pressure = 870 PSI

process connection system: SAE-flange 3000 PSI

housing material: stainless steel, see sheet-no. 55050

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

installation position: vertical

NPT 1/2" and SAE 3/4" 3000 PSI bleeder connection drain connection dirt side NPT 1/2" and SAE 3/4" 3000 PSI

drain connection clean side : NPT 1/2"

volume tank : 2x 5.02 Gal.

operating pressure adapter flanges: according to B16.5 CLASS 150 PSI

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)

6. Symbols:

without indicator



with visual-electrical indicator AE 50 and AE 62



with electronical sensor VS5



with shut-off valve



with visual-electrical indicator AE 70 and AE 80



with by-pass valve



with visual indicator AOR/AOC/OP



with electrical indicator AE 30 and AE 40



with visual-electrical indicator OE



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

8. 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