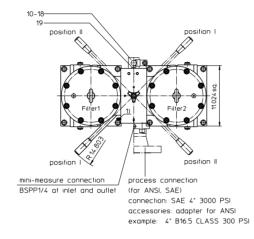
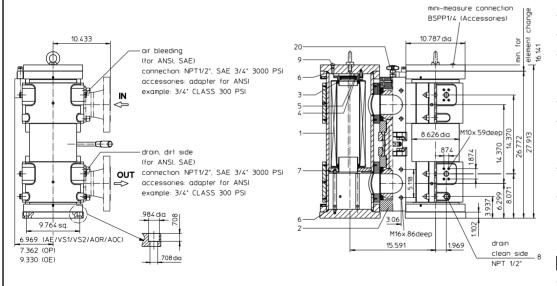
1) Connection for the potential equalisation at inlet and outlet, only for application in the explosive area.

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





STAINLESS STEEL-PRESSURE FILTER, change-over Series EDA 1005 NPS 4" CLASS 300 PSI

Sheet No. 2177 C

1. Type index:

1.1. Complete filter: (ordering example)

EDA. 1005, 10VG, 10, B. P. VA, FS, B. -, -, 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: 1005

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 $25 \text{ VG} = 20 \ \mu\text{m}_{(c)}$, $16 \text{ VG} = 15 \ \mu\text{m}_{(c)}$, $10 \text{ VG} = 10 \ \mu\text{m}_{(c)}$, $6 \text{ VG} = 7 \ \mu\text{m}_{(c)}$, $3 \text{ VG} = 5 \ \mu\text{m}_{(c)}$ Interpor fleece (glass fiber) 25 API = 20 μm, 10 API = 10 μm Interpor fleece (glass fiber) according to API

10P = 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

FA1 = ANSI-flange connection CLASS 300 PSI, sealing surface rough grind 1600-3600 μin

FA2 = ANSI-flange connection CLASS 300 PSI, sealing surface rough grind < 640 µin

9 process connection size:

B = 4"

10 | filter housing specification: (material) see sheet-no. 55050

= standard, per according to specification pressure vessel DGLR (1.4404) ASME type 316L

11 internal valve:

- = without. S1 = with by-pass valve Δp 51 PSI

12 | clogging indicator or clogging sensor:

= without,

AOR = visual, see sheet-no. 1606. AOC = visual, see sheet-no. 1606,

OP = visual, see sheet-no. 1628 OE = visual-electrical, see sheet-no. 1628 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 97/23/EC)

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:

= toward IN/OU

opposite IN/OUT

16 air bleeding/drain:

= toward IN/OUT

= opposite IN/OUT

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

3 - 7 see type index complete filter

weight: approx. 915 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 300 PSI, see sheet-no. 1658
- measure- and bleeder-connections, see sheet-no. 1650
- drain- and bleeder connection, see sheet-no. 1659

3. Spare parts:

opa. c	, pa	,			
item	qty.	designation	dimension	article-no.	
1	2	filter element	01NR.1000		
2	1	change over UKK	4"		
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 ¼	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	VS1	see sheet-no. 1607	
15	1	clogging sensor, electronical	VS2	see sheet-no. 1608	
16	1	O-ring	15 x 1,5	315357 (NBR)	315427 (FPM)
17	1	O-ring	22 x 2	304708 (NBR)	304721 (FPM)
18	2	O-ring	14 x 2	304342 (NBR)	304722 (FPM)
19	2	screw plug	BSPP ¼	306968	
20	1	pressure balance valve	3/8"	310316	

item 19 execution only with clogging indicator or clogging sensor

4. Description:

Stainless steel-pressure filters, change-over series EDA 1005 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 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/c) 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 Line filter are suitable for all petroleum based fluids. HW-emulsions, most synthetic hydraulic fluids and lubrication

The inspection according to TÜV, according to ASME VIII Div.1 and the major "Shipyard Classification Societies" D.N.V.; B.V.; G.L.; L.R.S.; R.I.N.A.; A.B.S. and others are possible. If inspection is required please indicate in your order.

5. Technical data:

temperature ranges

- calculation temperature (pressure vessel): +14°F to +212°F +14°F to +176°F

- medium temperature:

- ambient temperature: - survival temperature:

operating medium:

max. operating pressure:

test pressure acc. to PED 97/23/EC:

test pressure acc. to ASME VIII Div. 1:

test pressure acc. to API 614, Chapter 1:

connection system:

housing material:

sealing material:

installation position:

bleeder connection

drain connection dirt side

drain connection clean side

volume tank :

operating pressure adapter flanges:

- 40°F to +140°F

- 40°F to +212°F (short-time)

mineral oil, other media on request

1,43 x operating pressure = 827 PSI

1.3 x operating pressure = 754 PSI

1,5 x operating pressure = 870 PSI

SAE-flange connection 3000 PSI

stainless steel, see sheet-no. 55050 Nitrile (NBR) or Viton (FPM), other materials on request

vertical

NPT 1/2" and SAE 3/4" 3000 PSI

NPT 1/2" and SAE 3/4" 3000 PSI

NPT 1/2"

2x 5.02 Gal.

according to B16.5 CLASS 300 PSI

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)

6. Symbols:

without indicator with shut-off valve



indicator

with visual-electrical



with electronical sensor VS1





with visual-electrical indicator AE 70 and AE 80



with electronical sensor VS2



with by-pass valve

with visual

indicator

AOR/AOC/OP

with electrical indicator AE 30 and AE 40



with visual-electrical indicator OF



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