

### 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:

item	qty.	designation	dimension	articl	e-no.
1	4	filter element	01NR.1000 or 01NR.1001		
2	1	change over UKK	3"		
3	8	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 1/4	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 2204 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/e) 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 oils.

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
- medium temperature:	+14°F to +176°F
- ambient temperature:	- 40°F to +140°F
- survival temperature:	- 40°F to +212°F (short-time)
operating medium:	mineral oil, other media on request
max. operating pressure:	580 PSI
test pressure acc. to PED 97/23/EC:	1,43 x operating pressure = 827 PSI
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
connection system:	SAE-flange connection 3000 PSI
housing material:	stainless steel, see sheet-no. 55050
sealing material:	Nitrile (NBR) or Viton (FPM), other materials on request
installation position:	vertical
bleeder connection :	NPT 1/2" and SAE 3/4" 3000 PSI
drain connection dirt side :	NPT 1/2" and SAE 3/4" 3000 PSI
drain connection clean side :	NPT 1/2"
volume tank :	2x 7.92 Gal.
operating pressure adapter flanges:	according to B16.5 CLASS 300 PSI
-F3	

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 with by-pass valve

with visual

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with electrical indicator AE 30 and AE 40



with visual-electrical

indicator

OE

with visual-electrical with visual-electrical indicator AE 50 and AE 62

 $\otimes$ 

sensor

VS1





indicator AOR/AOC/OP



with electronical sensor VS2



7. Pressure drop flow curves: Precise flow rates see 'Interactive Product Specifier', respectively  $\Delta p$ - 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
- Verification of fabrication integrity Verification of material compatibility with fluids ISO 2942
- ISO 2943
- 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

with electronical

indicator AE 70 and AE 80  $\otimes$ 

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