

2. Accessories:

- SAE-counter flanges, see sheet-no. 1652

- adapter for connection acc. to EN1092-1, see sheet-no. 1657
- 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	articl	e-no.
1	2	filter element	01NR.1000		
2	1	change over UKK	DN 80		
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-ST	311471	
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 1/2	307766	
9	2	screw plug	G ¼	305003	
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	G ¼	305003	
20	1	pressure balance valve	DN 10	305000	

item 19 execution only with clogging indicator or clogging sensor

4. Description:

Pressure filters, change-over series DA 1014 are suitable for operating pressure up to 40 bar.

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 fibre 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 fibre). 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 dirtretaining 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): 	- 10°C to +100°C		
- medium temperature:	- 10°C to +80°C		
 ambient temperature: 	- 40°C to +60°C		
 survival temperature: 	 40°C to +100°C (short-time) 		
operating medium:	mineral oil, other media on request		
max. operating pressure housing:	40 bar		
test pressure acc. to PED 97/23/EC:	1,43 x operating pressure = 57 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		
connection system:	SAE-flange connection 3000 PSI		
housing material:	steel		
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 19 l		
operating pressure adapter flanges:	according to B16.5 CLASS 150 PSI / DIN EN 1092-1		

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 electrical indicator AE 30 and AE 40



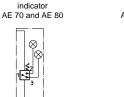




with visual-electrical indicator AE 50 and AE 62

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indicator AOR/AOC/OP

with visual

with visual-electrical indicator OE



with electronical sensor VS1

1





sensor VS2

with visual-electrical

indicator

with electronical

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
- Verification of fabrication integrity ISO 2942
- Verification of material compatibility with fluids ISO 2943 Method for end load test ISO 3723
- ISO 3724 Verification of flow fatique characteristics
- ISO 3968 Evaluation of pressure drop versus flow characteristics
- ISO 16889 Multi-pass method for evaluating filtration performance

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