

3. 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

4. Spare parts:

item	qty.	designation	dimension		article-no.	
		5	DA 630	DA 1000		
1	2	filter element	01NL. 630	01NL.1000		
2	1	change over UKK	3"			
3	2	O-ring	60 x 3,5		304377 (NBR)	304398 (FPM)
4	4	O-ring	135 x 4,75		326348 (NBR)	326349 (FPM)
5	2	O-ring	136,12 x 3,53		320162 (NBR)	320163 (FPM)
6	12	screw plug	NPT ½		307766	
7	2	screw plug	BSPP 1/4		305003	
8	1	clogging indicator, visual	AOR or AOC		see sheet-no. 1606	
9	1	clogging indicator, visual-electrical	OP		see sheet-no. 1628	
10	1	clogging indicator, visual-electrical	OE		see sheet-no. 1628	
11	1	clogging indicator, visual-electrical	AE		see sheet-no. 1609	
12	1	clogging sensor, electronical	VS1		see sheet-no. 1607	
13	1	clogging sensor, electronical	VS2		see sheet-no. 1608	
14	1	O-ring	15 x 1,5		315357 (NBR)	315427 (FPM)
15	1	O-ring	22 x 2		304708 (NBR)	304721 (FPM)
16	2	O-ring	14 x 2		304342 (NBR)	304722 (FPM)
17	2	screw plug	BSPP 1/4		305003	
18	1	pressure balance valve	3/8"		305000	

item 17 execution only with clogging indicator or clogging sensor

5. Description:

Pressure filters, change-over series DA 630-1000 are suitable for operating pressure up to 580 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 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 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.

6. 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:	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" and SAE 3/4" 3000 PSI			
volume tank DA 630:	2x 2.19 Gal.			
DA 1000:	2x 3.11 Gal.			
operating pressure adapter flanges:	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)

7. 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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with electronical

sensor

VS1





with visual indicator AOR/AOC/OP with visual-electrical indicator OE



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with electronical





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

9. 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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