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# 3. 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

## 4. Spare parts:

item	qty.	designation	dimension		article-no.		
		-	DA 631	DA 1001			
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	V	VS2		see sheet-no. 1608	
14	1	O-ring	15 :	15 x 1,5		315427 (FPM)	
15	1	O-ring	22	x 2	304708 (NBR)	304721 (FPM)	
16	2	O-ring	14	14 x 2		304722 (FPM)	
17	2	screw plug	BSF	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 631-1001 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 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): - 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 ASME VIII Div. 1: test pressure acc. to API 614, Chapter 1: connection system: housing material: sealing material: sealing material: bleeder connection : drain connection clean side : volume tank DA 631: DA 1001:	+14°F to +212°F +14°F to +176°F - 40°F to +140°F - 40°F to +212°F (short-time) mineral oil, other media on request 580 PSI 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 steel Nitrile (NBR) or Viton (FPM), other materials on request vertical NPT ½" and SAE ¾" 3000 PSI NPT ½" and SAE ¾" 3000 PSI NPT ½" 2 x 2.20 Gal. 2 x 3.12 Gal.
DA 1001: operating pressure adapter flanges:	2x 3.12 Gal. according to B16.5 CLASS 150 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

with visual-electrical indicator AE 50 and AE 62





with visual-electrical

₽₽

indicator



indicator AOR/AOC/OP

with visual

 $\bigcirc$ 

OE

with electronical sensor VS1







8. Pressure drop flow curves: Precise flow rates see 'Interactive product Specifier', respectively Ap- 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