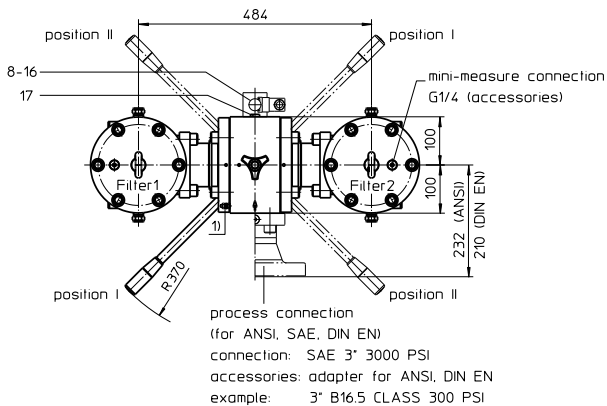
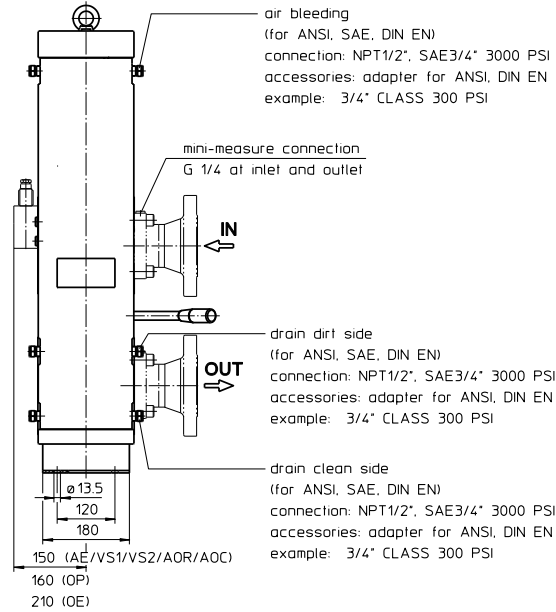
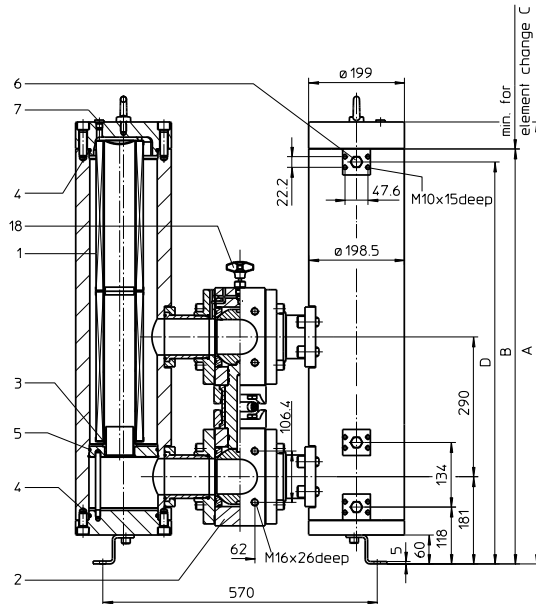


PRESSURE FILTER, change-over
Series DA 630-1000 NPS 3" CLASS 300 PSI

Sheet No.
2156 E



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

2. Dimensions:

type	connection	A	B	C	D	weight kg
DA 630	SAE 3"	687	631	410	604	approx. 290
DA 1000	SAE 3"	917	861	640	834	approx. 350

1. Type index:

1.1. Complete filter: (ordering example)

DA. 1000. 10VG. 30. E. P. -. FS. A. -. -. AE. AV. IS21. F. F

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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- 1 | **series:**
DA = pressure filter change-over, according to ASME-code
- 2 | **nominal size:** 630, 1000
- 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 VG = 20 µm_(c), 16 VG = 15 µm_(c), 10 VG = 10 µm_(c), 6 VG = 7 µm_(c), 3 VG = 5 µm_(c) Interpor fleece (glass fibre)
25 API = 20 µm, 10 API = 10 µm Interpor fleece (glass fibre) according to API
10 P = 10 µm paper
- 4 | **resistance of pressure difference for filter element:**
30 = Δp 30 bar
- 5 | **filter element design:**
E = single-end open, S = with by-pass valve Δp 2,0 bar, S1 = with by-pass valve Δp 3,5 bar
- 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 R_z = 160 µm (not finer than 40 µm)
FA2 = ANSI-flange connection CLASS 300 PSI, sealing surface R_z = 16 µm
FD41 = flange connection DIN EN 1092-1, design B1
FD42 = flange connection DIN EN 1092-1, design B2
- 9 | **process connection size:**
A = 3"
- 10 | **filter housing specification:**
- = standard
IS12 = internal parts of change-over armature stainless steel, see sheet-no. 41028
- 11 | **internal valve:**
- = without
- 12 | **clogging indicator or clogging sensor:**
- = without, OP = visual, see sheet-no. 1628
AOR = visual, see sheet-no. 1606, OE = visual-electrical, see sheet-no. 1628
AOC = visual, see sheet-no. 1606, VS1 = electrical, see sheet-no. 1607
AE = visual-electrical, see sheet-no. 1609, VS2 = electrical, 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:**
F = toward IN/OUT, B = opposite IN/OUT
- 16 | **air bleeding/drain:**
F = toward IN/OUT, B = opposite IN/OUT

1.2. Filter element: (ordering example)

01NL. 1000. 10VG. 30. E. P. -

1	2	3	4	5	6	7
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- 1 | **series:**
01NL = standard filter element according to DIN 24550, T3
- 2 | **nominal size:** 630, 1000
- 3 | - 7 | see type index complete filter

Changes of measures and design are subject to alteration!



For more information: WEB: FLTR.com.au **PHONE:** (+61) 1300 62 4020
EMAIL: info@FLTR.com.au **SKYPE:** Purple.Engineering

3. 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 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.	
			DA 630	DA 1000		
1	2	filter element	01NL.630...	01NL.1000...		
2	1	change over UKK		DN 80		
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		G ¼		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		G ¼		305003
18	1	pressure balance valve		DN 10		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 40 bar. Pressure peaks can be absorbed with a sufficient margin of 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_(α) 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 „Shipyards 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.

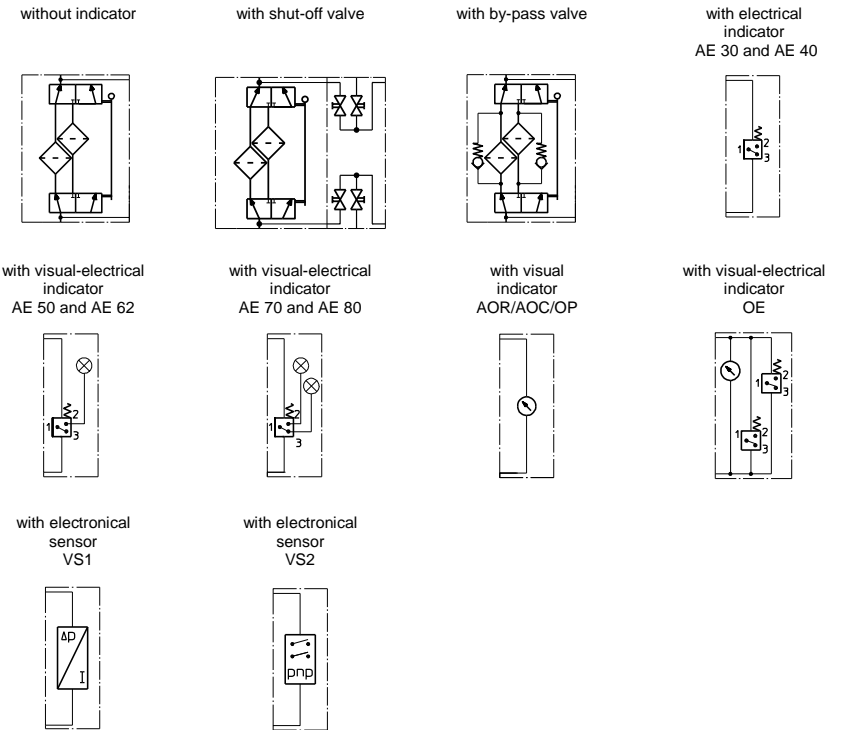
6. Technical data:

temperature ranges	
- calculation temperature (pressure vessel):	- 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 ½" and SAE ¼" 3000 PSI
drain connection dirt side:	NPT ½" and SAE ¼" 3000 PSI
drain connection clean side:	NPT ½" and SAE ¼" 3000 PSI
volume tank DA 630:	2x 8,3 l
DA 1000:	2x 11,8 l
operating pressure adapter flanges:	according to B16.5 CLASS 300 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)

E 2156 E

7. Symbols:



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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