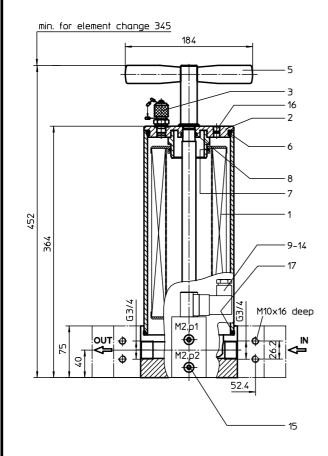
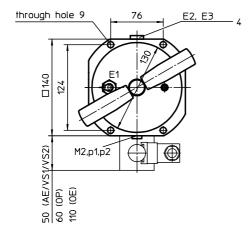
PARTIAL FLOW FILTER Series NF 250 DN 25 PN 16





M2,p1 = measure connection dirt-side M2,p2 = measure connection clean-side

E1 = air bleeding dirt-side E2 = drain dirt-side E3 = drain clean-side

1. Type index:

1.1. Complete filter: (ordering example)

NF. 250. 10VG. 10. B. P. -. FS. 5. -. AE1
2
3
4
5
6
7
8
9
10
11

1 series:

NF = partial flow filter

2 nominal size: 250

3 | filter-material and filter-fineness:

 $25~VG=20~\mu m_{(c)},~16~VG=15~\mu m_{(c)},10~VG=10~\mu m_{(c)},$ $6~VG=7~\mu m_{(c)},~3~VG=5~\mu m_{(c)}$ Interpor fleece (glass fibre) $10~WVG=10~\mu m_{(c)},~3~WVG=5~\mu m_{(c)}$ Watersorp-filter element

4 resistance of pressure difference for filter element:

 $10 = \Delta p 10 bar$

5 filter element design:

B = both sides open

6 sealing material:

P = Nitrile (NBR)

= Viton (FPM)

7 | filter element specification: (see catalog)

- = standard VA = stainless steel IS06 = see sheet-no. 31601

8 connection:

FS = SAE-flange connection 3000 PSI 1)

9 connection size:

5 = 1" 1)

10 | filter housing specification: (see catalog)

= standard

IS06 = see sheet-no. 31605

11 clogging indicator or clogging sensor :

= without

OP = visual, see sheet-no. 1628

OE = visual-electrical, see sheet-no. 1628
AE = visual-electrical, see sheet-no. 1609
VS1 = electrical, see sheet-no. 1607
VS2 = electrical, see sheet-no. 1608

in addition available thread G ¾ according to DIN 3852 T2, design Z

1.2. Filter element: (ordering example)

01NR. 250. 10VG. 10. B. P. -| 1 | 2 | 3 | 4 | 5 | 6 | 7 |

1 series:

01NR. = standard return line filter element according to DIN 24550, T4

2 nominal size: 250

3 - 7 | see type index-complete filter

2. Accessories:

- measure- and bleeder connection, see sheet-no. 1650
- evacuation- and bleeder-connections, see sheet-no. 1651

weight: approx. 7 kg

Changes of measures and design are subject to alteration!



EDV 10/09

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3. Spare parts:

item	qty.	designation	dimension	article-no.	
1	1	filter element	01NR. 250		
2	1	filter cover	30615-3	315437	
3	1	mini-measuring connection	MA.1.St	305453	
4	2	screw plug	G ¼	305003	
5	1	straining screw	30631-3	316404	
6	1	O-ring	110 x 6	337001 (NBR)	337002 (FPM)
7	2	O-ring	52 x 3	314206 (NBR)	316698 (FPM)
8	1	O-ring	18 x 3	304359 (NBR)	304399 (FPM)
9	1	clogging indicator, visual	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	2	O-ring	14 x 2	304342 (NBR)	304722 (FPM)
15	2	screw plug	G 1/8	304791	
16	1	screw plug	G 1/8	305496	
17	1	O-ring	123 x 4	337003 (NBR)	337004 (FPM)

item 15 execution only without clogging indicator or clogging sensor

4. Description:

The partial flow filter NF is foreseen for the fine filtration of hydraulic and lubrication circuits additionally to the main filter. The big filtration area in comparison to the nominal size is the premise for a high dirt-retaining capacity even in case of small filter-fineness. The filter NF is flanged mounted to the line.

Filter elements as \bar{f} ine as $5 \mu m_{(c)}$ are available; finer filter elements on request. Element change without tools is possible. After release of the straining screw and removal of the cover the elements are accessible and could be changed. The filter elements were delivered completely inclusive seals. Cleaning of the elements not possible therefore the user should have enough spare elements on stock.

5. Technical data:

temperature range: -10°C to +80°C (for a short time + 100°C) operating medium: mineral oil, other media on request

max. operating pressure: 16 bar test pressure: 23 bar

connection: SAE-flange connection 3000 PSI

housing material: aluminium forging alloy

sealing material: Nitrile (NBR) or Viton (FPM), other materials on request

installation-position: vertical measure connection: G 1/8 evacuation- or bleeder connections: G 1/4 volume tank: 3,3 l

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 electrical indicator AE 30 and AE 40 with visual-electrical indicator AE 50 and AE 62

with visualelectrical indicator AE 70 and AE 80 with visual indicator OP with visual-electrical indicator OE

with electronical clogging sensor VS1

with electronical clogging sensor VS2

















7. Pressure drop flow curves:

Precise flow rates see 'INT-Expert-System Filter', 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 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