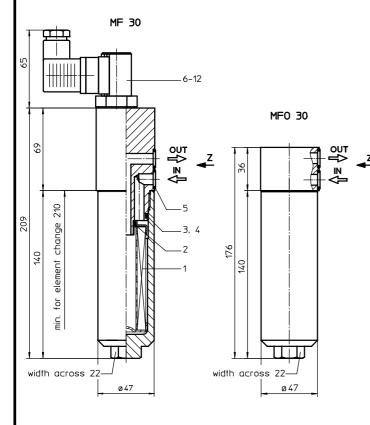
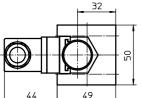
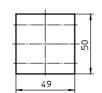
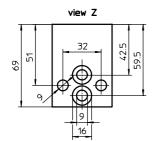
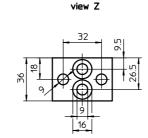
PRESSURE FILTER, manifold mounted Series MF 30, MFO 30 **DN 10**











1. Type index:

1.1. Complete filter: (ordering example)

MF. 30. 10VG. HR. E. P. -. F. 2. -. AE 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |

1 series:

MF = medium pressure filter, manifold mounted

with indicator

= medium pressure filter, manifold mounted

without indicator

nominal size: 30

filter-material and filter-fineness:

 $80~G = 80~\mu m$, $40~G = 40~\mu m$, $25~G = 25\mu m$ stainless steel wire mesh

25 VG= 20 μ m_(c), 16 VG= 15 μ m_(c), 10 VG= 10 μ m_(c),

6 VG = 7 μ m_(c), 3 VG = 5 μ m_(c) Interpor fleece (glass fibre) 4 resistance of pressure difference for filter element:

= Δp 30 bar

HR = Δp 160 bar (rupture strenght Δp 250 bar)

5 filter element design:

Е = single-end open

6 sealing material:

= Nitrile (NBR)

= Viton (FPM)

7 | filter element specification: (see catalog)

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

8 connection:

= manifold mounted

9 connection size:

2 = DN 10

10 filter housing specification: (see catalog)

= standard

IS06 = see sheet-no. 31605

11 clogging indicator or clogging sensor:

series MFO:

= without

series MF:

AOR = visual, see sheet-no. 1606

= visual, see sheet-no. 1606 AOC

= visual-electrical, see sheet-no. 1615 VS1 = electronical, see sheet-no. 1617

VS2 = electronical, see sheet-no. 1618

1.2. Filter element: (ordering example)

01E. 30. 10VG. HR. E. P. 1 2 3 4 5 6

1 series:

01F. = filter element according to

INTERNORMEN factory specification

2 nominal size: 30

7 see type index-complete filter

weight without indicator: approx. 1,2 kg weight with indicator : approx. 1,4 kg

Changes of measures and design are subject to alteration!



EDV 09/09

Friedensstrasse 41, 68804 Altlussheim, Germany

phone +49 - (0)6205 - 2094-0 e-mail fax +49 - (0)6205 - 2094-40

sales@internormen.com url www.internormen.com



2. Spare parts:

| item | qty. | designation | dimensions | article-no. | |
|------|------|---------------------------------------|--------------|--------------------|--------------|
| 1 | 1 | filter element | 01E. 30 | | |
| 2 | 1 | O-ring | 11 x 3 | 312603 (NBR) | 312727 (FPM) |
| 3 | 1 | O-ring | 32 x 2,5 | 306843 (NBR) | 308268 (FPM) |
| 4 | 1 | support ring | 37 x 2,1 x 1 | 305466 | |
| 5 | 2 | O-ring | 12 x 2 | 311014 (NBR) | 310271 (FPM) |
| 6 | 1 | clogging indicator, visual | AOR or AOC | see sheet-no. 1606 | |
| 7 | 1 | clogging indicator, visual-electrical | AE | see sheet-no. 1615 | |
| 8 | 1 | clogging sensor, electronical | VS1 | see sheet-no. 1617 | |
| 9 | 1 | clogging sensor, electronical | VS2 | see sheet-no. 1618 | |
| 10 | 1 | O-ring | 15 x 1,5 | 315357 (NBR) | 315427 (FPM) |
| 11 | 1 | O-ring | 22 x 2 | 304708 (NBR) | 304721 (FPM) |
| 12 | 1 | O-ring | 14 x 2 | 304342 (NBR) | 304722 (FPM) |

3. Description:

Pressure filter of the series MF 30 and MFO 30 are suitable for a working pressure up to 160 bar.

The pressure peaks are absorbed by a sufficient margin of safety. The filters are flange mounted to the hydraulic system.

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 inside.

Filter elements are available down to 4 μm_(c).

INTERNORMEN-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-Filter are suitable for all petroleum based fluids, HW-emulsions, most synthetic hydraulic fluids and lubrication oils. INTERNORMEN-Filter elements are available up to a pressure difference resistance of Δp 160 bar and a rupture strength of Δp 250 bar.

4. Technical data:

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

160 bar max. operating pressure: test pressure: 229 bar

connection system: manifold mounted housing material: Al: C-steel

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

installation position: vertical volume tank: 0.1 I

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).

5. Symbols:

without indicator



with electrical indicator AE 30 and AE 40



with visual-electrical indicator AE 50 and AE 62



with visual-electrical indicator AE 70 and AE 80



with visual indicator AOR/AOC



with electronical clogging sensor



with electronical clogging sensor



6. Pressure drop flow curves:

Precise flow rates see INT-Expert-System Filter respectively Δp-curves - depending on filter fineness and viscosity.

7. Test methods:

Filter elements are tested according to the following ISO standards:

ISO 2941 Verification of collapse/burst resistance

2942 Verification of fabrication integrity ISO

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