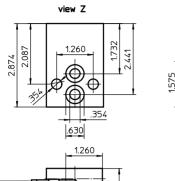
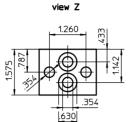
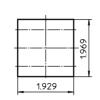
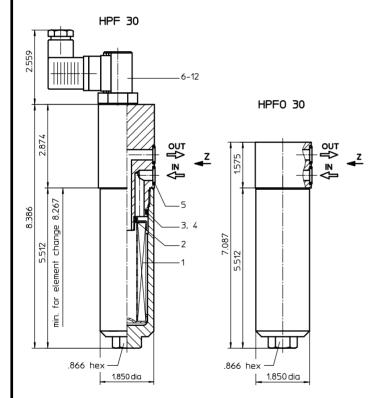
PRESSURE FILTER, manifold mounted Series HPF 30, HPFO 30 4568 PSI



1.929







1. Type index:

1.1. Complete filter: (ordering example)

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

1 series:

HPF = medium pressure filter, manifold mounted

with indicator

HPFO = medium pressure filter, manifold mounted

without indicator

2 nominal size: 30

3 | filter-material and filter-fineness:

 $80~G=80~\mu\text{m},\,40~G=40~\mu\text{m},\,25~G=25\mu\text{m}$ 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 fiber))

4 resistance of pressure difference for filter element:

 $= \Delta p \, 435 \, PSI$

HR = Δp 2320 PSI (rupture strength Δp 3625 PSI)

5 filter element design:

E = single-end open

6 sealing material:

P = Nitrile (NBR) V = Viton (FPM)

7 | filter element specification: (see catalog)

standardstainless steel

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

8 connection:

= manifold mounted

9 connection size:

= 3/8

10 | filter housing specification: (see catalog)

= standard

IS06 = see sheet-no. 31605

11 clogging indicator or clogging sensor:

series HPFO:

= without

series HPF:

AOR = visual, see sheet-no. 1606 AOC = visual, see sheet-no. 1606

AE = 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 | 7 |

1 series:

01E. = filter element according to company standard

2 nominal size: 30

3 - 7 see type index-complete filter

weight without indicator: approx. 3.96 lbs. weight with indicator: approx. 5.29 lbs.

Changes of measures and design are subject to alteration!

EDV 08/12

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 HPF 30 and HPFO 30 are suitable for a working pressure up to 4568 PSI.

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 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.

Internormen Product Line filter elements are available up to a pressure difference resistance of Δp 2320 PSI and a rupture strength of Δp 3625 PSI.

4. Technical data:

temperature range: +14°F to + 176°F (for a short time + 212°F)

operating medium: mineral oil, other media on request

max. operating pressure: 4568 PSI 6532 PSI test pressure:

manifold mounted connection system:

housing material: C-steel

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

installation position: vertical volume tank: .02 Gal.

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. Symbol:

without indicato



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 VS1



with electronical clogging sensor VS2



6. Pressure drop flow curves: Precise flow rates see 'Interactive Product Specifier', 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

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