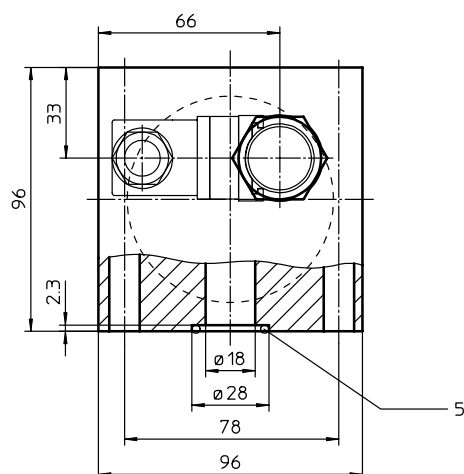
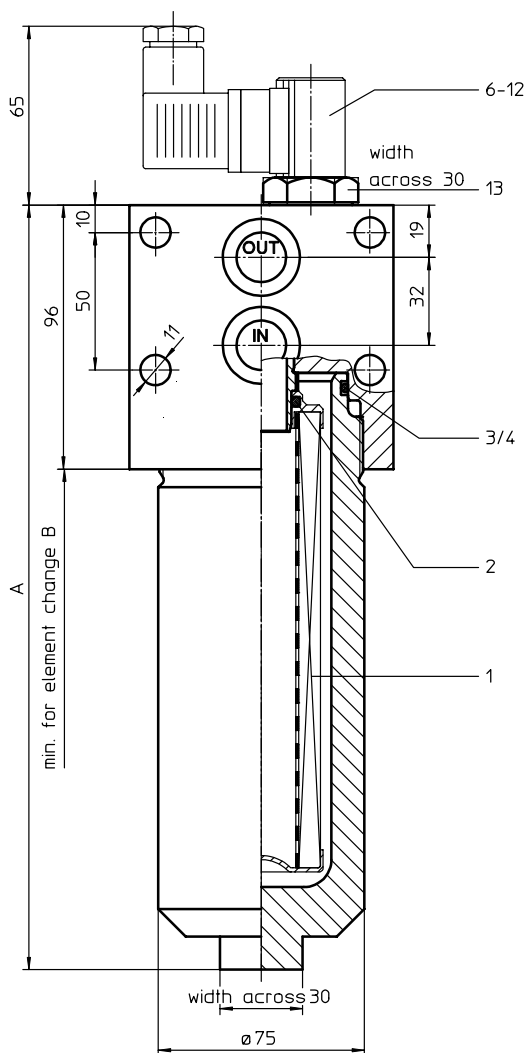


STAINLESS STEEL- PRESSURE FILTER

Series EHPF 60-150 DN 18 PN 315

Sheet No.
1440



1. Type index:

1.1. Complete filter: (ordering example)

EHPF. 90. 10VG. HR. E. P. VA. F. 4. VA. -. AE

1	2	3	4	5	6	7	8	9	10	11	12
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- 1 **series:**
EHPF = stainless steel-pressure filter, manifold mounted
- 2 **nominal size:** 60, 90, 150
- 3 **filter-material and filter-fineness:**
80G = 80 μm , 40G = 40 μm ,
25G = 25 μm stainless steel wire mesh
25 VG = 20 $\mu\text{m}_{(c)}$, 16 VG = 15 $\mu\text{m}_{(c)}$, 10 VG = 10 $\mu\text{m}_{(c)}$,
6 VG = 7 $\mu\text{m}_{(c)}$, 3 VG = 5 $\mu\text{m}_{(c)}$ Interpor fleece (glass fibre)
- 4 **resistance of pressure difference for filter element:**
30 = Δp 30 bar
HR = Δp 160 bar (rupture strength Δp 250 bar)
- 5 **filter element design:**
E = single-end open
- 6 **sealing material:**
P = Nitrile (NBR)
V = Viton (FPM)
- 7 **filter element specification:** (see catalog)
- = standard
VA = stainless steel
IS06 see sheet-no. 31601
- 8 **connection:**
F = manifold mounted
- 9 **connection size:**
4 = DN 18
- 10 **filter housing specification:**
VA = stainless steel
- 11 **internal valve:**
- = without
S1 = with by-pass valve Δp 3,5 bar
S2 = with by-pass valve Δp 7,0 bar
R = reversing valve, $Q \leq 70,06$ l/min
- 12 **clogging indicator or clogging sensor :**
- = without
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. 90. 10VG. HR. E. P. VA

1	2	3	4	5	6	7
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- 1 **series:**
01E. = filter element according to INTERNORMEN factory specification
- 2 **nominal size:** 60, 90, 150
- 3 - 7 | see type index-complete filter

2. Dimensions:

type	connection	A	B	weight kg	volume tank
EHPF 60	DN 18	213	215	10	0,3 l
EHPF 90		278	280	11	0,4 l
EHPF 150		388	390	13	0,6 l

EDV 10/08

Changes of measures and design are subject to alteration!

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3. Spare parts:

item	qty.	designation	dimension			article-no.	
			EHPF60	EHPF 90	EHPF 150		
1	1	filter element	01E.60	01E.90	01E.150		
2	1	O-ring		22 x 3,5		304341 (NBR)	304392 (FPM)
3	1	O-ring		56 x 3		305072 (NBR)	305322 (FPM)
4	1	support ring		63 x 2,6 x 1		312309	
5	2	O-ring		22 x 3		304387 (NBR)	304931 (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, electrical		VS1		see sheet no. 1617	
9	1	clogging sensor, electrical		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)
13	1	screw plug		40171-4		314442	

item 13 execution only without clogging indicator or clogging sensor

4. Description:

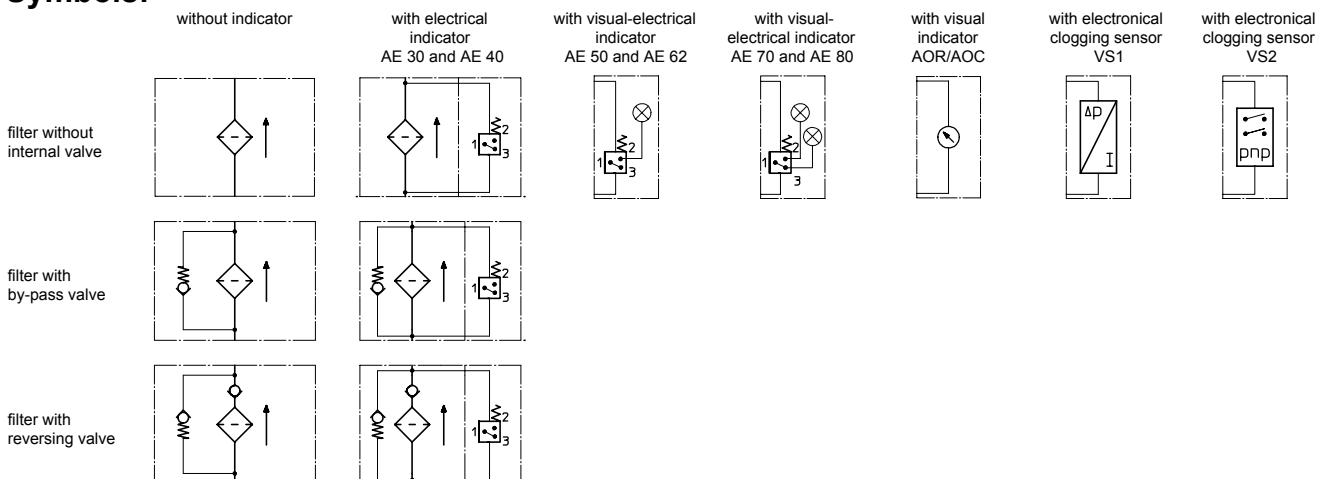
The stainless steel pressure filters of the series EHPF are suitable for a working pressure up to 315 bar. The pressure peaks are absorbed by a sufficient margin of safety. The EHPF-filters are flanged to the mounting-surface. The filter element consists of star-shaped, pleated filter material which 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 a filter fineness of $4\mu\text{m}_{(c)}$. INTERNORMEN-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-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. The internal valves are integrated into the centering pivot for the filter element. After reaching the opening pressure the by-pass valve causes that an unfiltered partial flow passes the filter. With the reverse valve a protection of the filter element is given when having a reverse flow inside the filter. The reverse flow will not be filtered.

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: 315 bar
test pressure: 450 bar
connection system: manifold mounted
housing material: EN10088 - 1.4571 (320 S 18, 320 S 31 according to B.S.)
sealing material: Nitrile (NBR) or Viton (FPM), other materials on request
installation position: vertical

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:



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