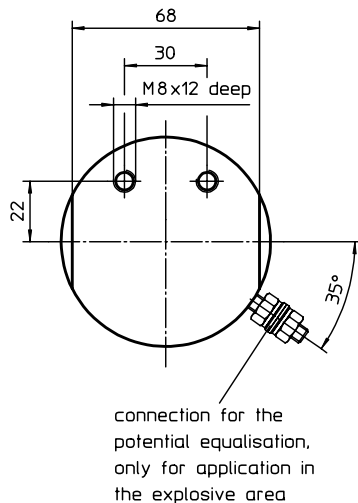
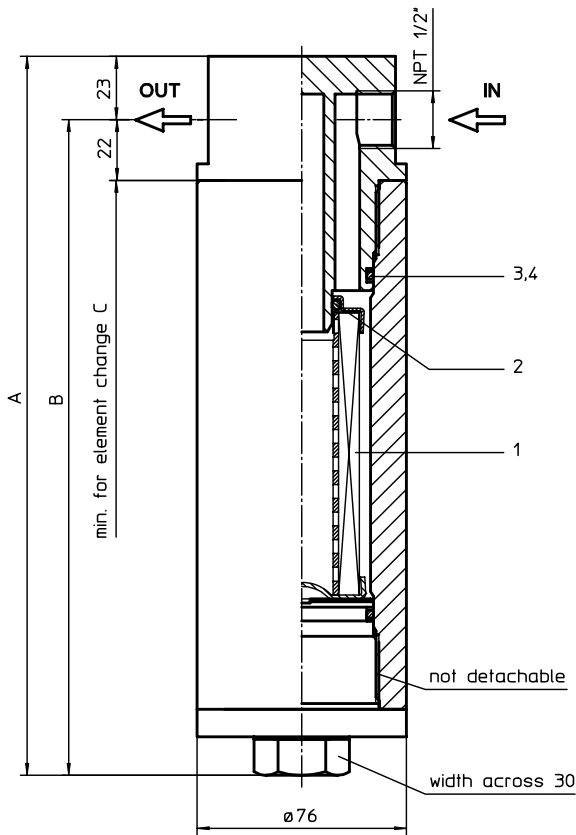


STAINLESS STEEL- PRESSURE FILTER

Series EHP 60-90 DN 15 PN 700/1400

Sheet No.
1436 C



1. Type index:

1.1. Complete filter: (ordering example)

EHP. 90. 10VG. HR. E. P. VA. NPT. 3. VA. 700

1	2	3	4	5	6	7	8	9	10	11
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- 1 **series:**
EHP = stainless steel-pressure filter
- 2 **nominal size:** 60, 90
- 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:**
NPT = thread connection
- 9 **connection size:**
3 = NPT $\frac{1}{2}$
- 10 **filter housing specification:**
VA = stainless steel
- 11 **pressure level:**
700 = max. operating pressure 700 bar
1400 = max. operating pressure 1400 bar

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
- 3 - 7 see type index-complete filter

2. Dimensions:

type	EHP 60	EHP 90
A	261	326
B	238	303
C	360	425
weight kg	8,5	9,7
volume tank	0,3 l	0,4 l

3. Spare parts:

item	qty.	designation	dimension		article-no.	
			EHP 60	EHP 90		
1	1	filter element	01E.60	01E.90		
2	1	O-ring	22 x 3,5		304341 (NBR)	304392 (FPM)
3	1	O-ring	45 x 3		304991 (NBR)	304997 (FPM)
4	1	support ring	52 x 2,6 x 1		311013	

4. Description:

The pressure filters of the series EHP are suitable for a working pressure up to 700 respectively 1400 bar. The pressure peaks are absorbed by a sufficient margin of safety. The EHP-filter is in-line mounted. 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.

5. Technical data:

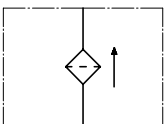
temperature range:	- 10°C to +80°C (for a short time +100°C)				
operating medium:	mineral oil, other media on request				
max. operating pressure:	<table border="1"> <tr> <td>700 bar</td> <td>1400 bar</td> </tr> <tr> <td>1000 bar</td> <td>2000 bar</td> </tr> </table>	700 bar	1400 bar	1000 bar	2000 bar
700 bar	1400 bar				
1000 bar	2000 bar				
test pressure:	thread connection				
connection system:	EN10088-3 - 1.4418 + QT900				
housing material:	Nitrile (NBR) or Viton (FPM), other materials on request				
sealing material:	vertical				
installation position:					

Pressure stage 700: Classified under the Pressure Equipment Directive 97/23/EC for mineral oil (fluid group 2), Article 3, Para 3.

Pressure stage 1400: Classified under the Pressure Equipment Directive 97/23/EC for mineral oil (fluid group 2), Article 3, Para 1.1.b) Category I (Modul A)

Classified under ATEX Directive 94/9/EC according to specific application (see questionnaire sheet-no. 34279-4).

6. Symbol:



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