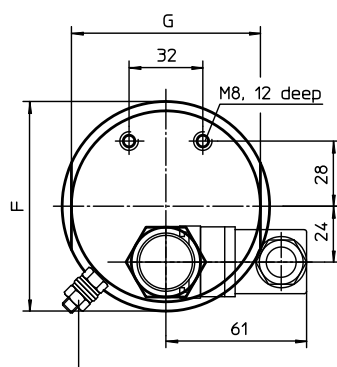
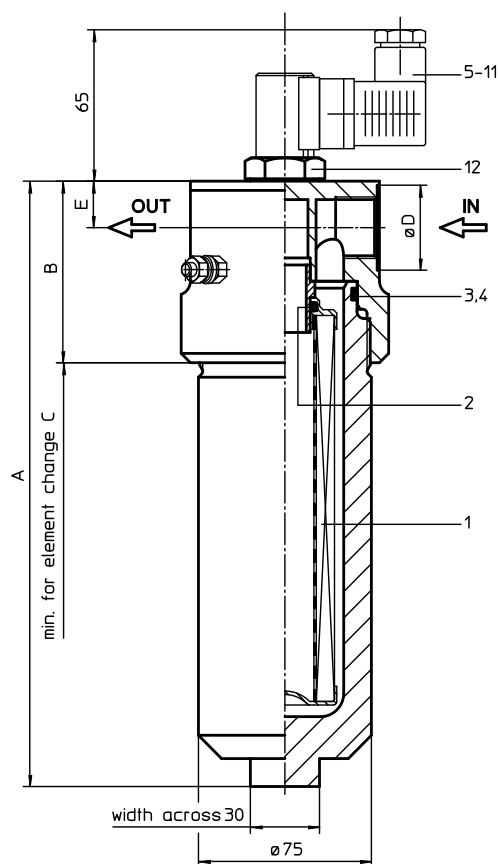


STAINLESS STEEL- PRESSURE FILTER

Series EH 60-150 DN 15-25 PN 420

Sheet No.
1430 M



connection for the
potential equalisation,
only for application
in the explosive area

1. Type index:

1.1. Complete filter: (ordering example)

EH. 90. 10VG. HR. E. P. VA. G. 4. VA. -. AE

	1	2	3	4	5	6	7	8	9	10	11	12
1	series:											
	EH = stainless steel-pressure filter											
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 µm _(c) , 16 VG = 15 µm _(c) , 10 VG = 10 µm _(c) , 6 VG = 7 µm _(c) , 3 VG = 5 µm _(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:											
	G = thread connection according to ISO 228 NPT = thread connection according to ANSI B1.20.1											
9	connection size:											
	3 = 1/2" 4 = 3/4" 5 = 1"											
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 ≤ 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
1	series:						
	01E. = filter element according to company standard						
2	nominal size: 60, 90, 150						
3	- 7 see type index-complete filter						

2. Dimensions:

type	connection	A	B	C	D ¹⁾	E	F	G	weight kg	volume tank
EH 60	1/2"	195	78	215	30	20	90	82	8,5	0,3 l
EH 90	3/4"	260	78	280	36,5	20	90	82	9,5	0,4 l
EH 150	1"	370	84	390	40	23	95	84	12,5	0,6 l

Connection assignments as shown in the table are standard. To exchange connections see item 9 in the type index.

¹⁾ dimension only with execution according to ISO 228

3. Spare parts:

item	qty.	designation	dimension			article-no.	
			EH 60	EH 90	EH 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	1	clogging indicator, visual		AOR or AOC		see sheet no. 1606	
6	1	clogging indicator, visual-electrical		AE		see sheet no. 1615	
7	1	clogging sensor, electronical		VS1		see sheet no. 1617	
8	1	clogging sensor, electronical		VS2		see sheet no. 1618	
9	1	O-ring		15 x 1,5		315357 (NBR)	315427 (FPM)
10	1	O-ring		22 x 2		304708 (NBR)	304721 (FPM)
11	1	O-ring		14 x 2		304342 (NBR)	304722 (FPM)
12	1	screw plug		20913-4		314442	

item 12 execution only without clogging indicator or clogging sensor

4. Description:

The pressure filters of the series EH are suitable for a working pressure up to 420 bar.
The pressure peaks are absorbed by a sufficient margin of safety. The EH-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 4µm_(G).
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 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:

operating medium:

max. operating pressure:

test pressure:

connection system:

housing material:

sealing material:

installation position:

- 10°C to +80°C (for a short time +100°C)

mineral oil, other media on request

420 bar

600 bar

thread connection according to ISO 228 or ANSI B1.20.1

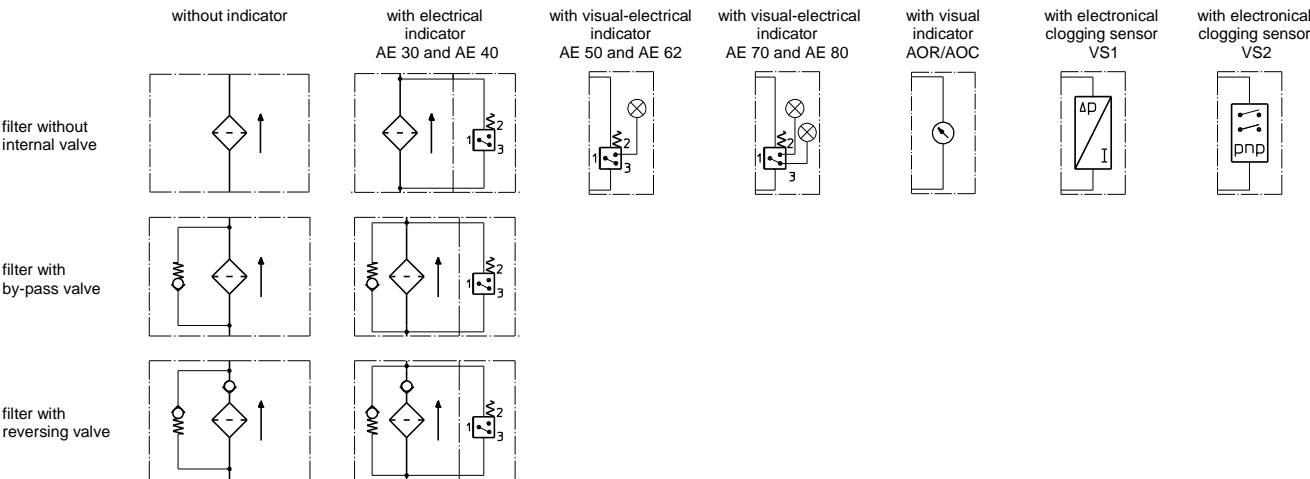
DIN 17440 - 1.4571 (320 S 18, 320 S 31 according to B.S.)

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

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 'Interactive Product Specifier', 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