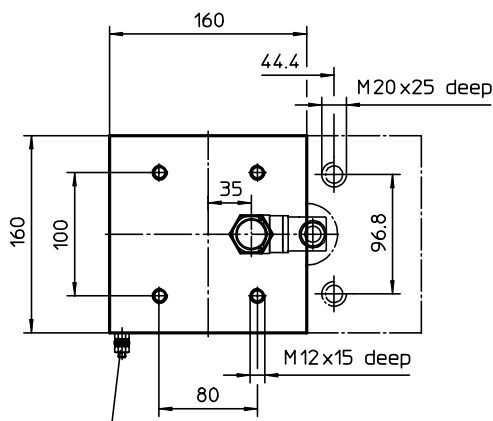
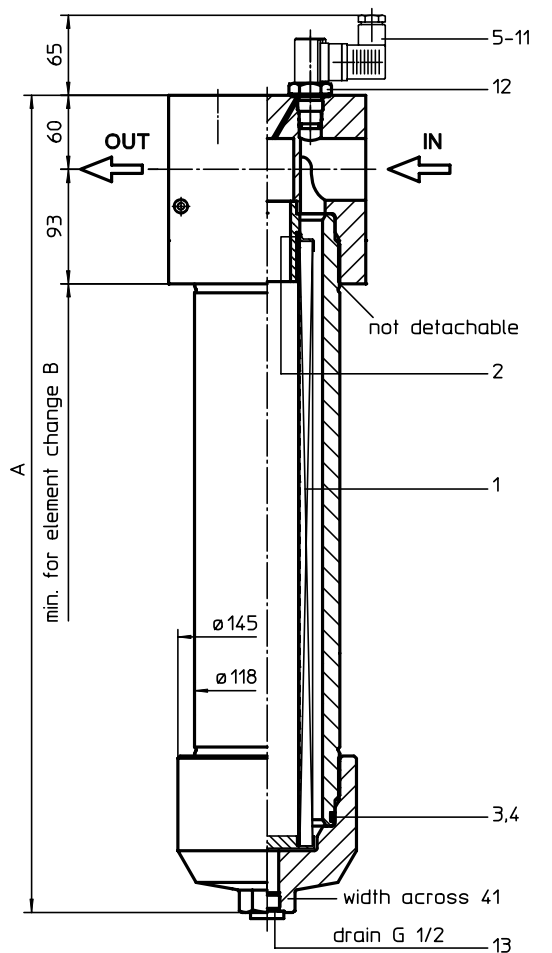


STAINLESS STEEL - PRESSURE FILTER

Series EH 601-1351 DN 50 PN 315

Sheet No.
1434 F



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

1. Type index:

1.1. Complete filter: (ordering example)

EH. 901. 10VG. HR. E. P. VA. FS. 8. VA. -. AE

1	2	3	4	5	6	7	8	9	10	11	12
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- 1 **series:**
EH = stainless steel-pressure filter
- 2 **nominal size:** 601, 901, 1351
- 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:**
FS = SAE-flange connection 6000 PSI
- 9 **connection size:**
8 = 2"
- 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, $Q \leq 465,348$ 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 = electronic, see sheet-no. 1617
VS2 = electronic, see sheet-no. 1618

1.2. Filter element: (ordering example)

01E. 900. 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:** 600, 900, 1350
- 3 - 7 see type index-complete filter

2. Dimensions:

type	EH 601	EH 901	EH 1351
connection	SAE 2"	SAE 2"	SAE 2"
A	520	670	918
B	790	940	1440
weight kg	49	56	68
volume tank	2,1 l	3,1 l	4,6 l

3. Spare parts:

item	qty.	designation	dimension			article-no.	
			EH 601	EH 901	EH 1351		
1	1	filter element	01E.600	01E.900	01E.1350		
2	1	O-ring		48 x 3		304357 (NBR)	304404 (FPM)
3	1	O-ring		98 x 4		301914 (NBR)	304765 (FPM)
4	1	support ring		110 x 3,5 x 2		304802	
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, electrical		VS1		see sheet no. 1617	
8	1	clogging sensor, electrical		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	
13	1	screw plug		G ½		306966	

item 12 execution only without clogging indicator or clogging sensor

4. Description:

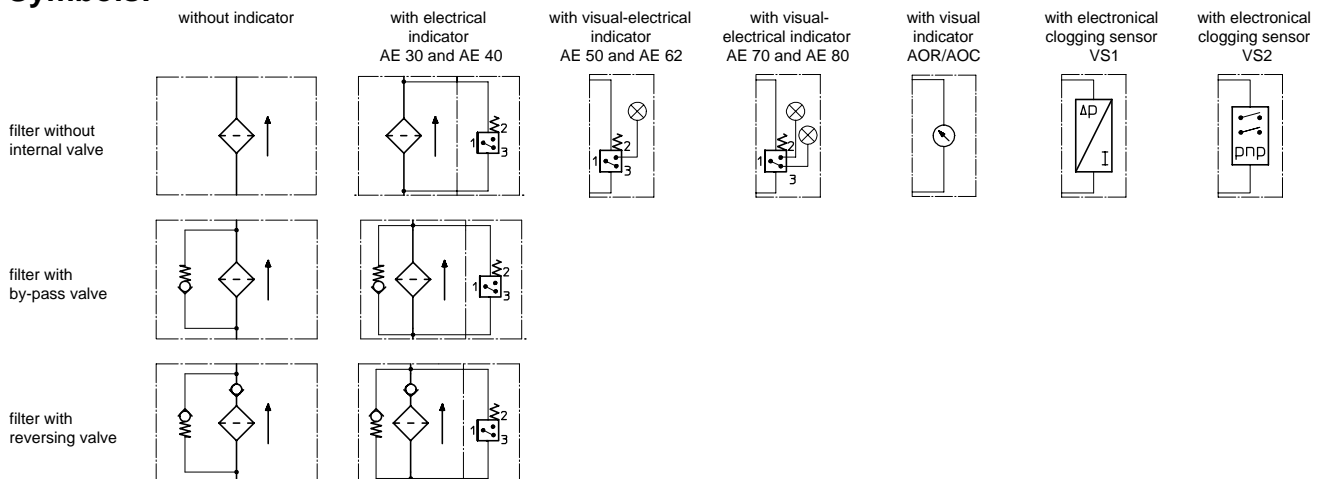
The pressure filters of the series EH are suitable for a working pressure up to 315 bar. The pressure peaks are absorbed by a sufficient margin of safety. The EH-filters are flange mounted to the hydraulic system. The filter element consists of star-shaped, pleated filter material which is supported 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 the inside. Filter elements are available down to 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:	410 bar
connection system:	SAE-flange connection 6000 PSI
housing material:	DIN 17440 - 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