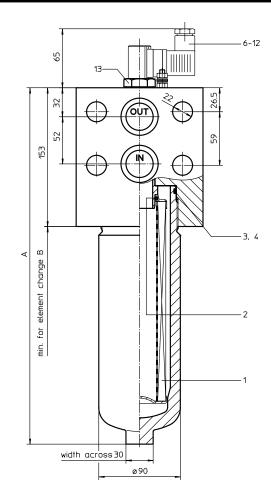
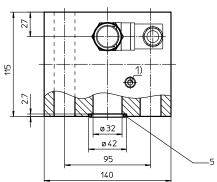
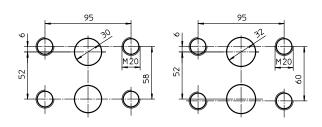
PRESSURE FILTER, manifold mounted Series HPX 170-450 DN 32 PN 315





possible connection masses



¹⁾ connection for the potential equalisation, only for application in the explosive area

1. Type index:

1.1. Complete filter: (ordering example)

HPX . 360. 10VG. HR. E. P. -. F. 6. -. -. AE
1 2 3 4 5 6 7 8 9 10 11 12

1 series:

HPX = pressure filter, manifold mounted

2 | nominal size: 170, 240, 360, 450

3 | filter-material and filter-fineness:

 $80~G=80~\mu m,\,40~G=40~\mu m,\,25~G=25~\mu m$

stainless steel wire mesh

25 VG = 20 $\mu m_{(c)}$, 16 VG = 15 $\mu m_{(c)}$, 10 VG = 10 $\mu m_{(c)}$, 6 VG = $7\mu m_{(c)}$, 3 VG = 5 $\mu m_{(c)}$ 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 A = stainless steel

IS06 = see sheet-no. 31601

8 connection:

F = manifold mounted

9 connection size:

6 = DN 32

10 | filter housing specification: (see catalog)

= standard

IS06 = see sheet-no. 31605

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 211,008 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. 360. 10VG. HR. E. P. -1
2
3
4
5
6
7

1 series:

01E. = filter element according to company standard

2 **nominal size:** 170, 240, 360, 450

3 - 7 see type index-complete filter

2. Dimensions:

type	HPX 170	HPX 240 HPX 360		HPX 450						
connection	DN 32									
Α	343	393	473	580						
В	350	400	480	585						
weight kg	21	22,3	24	27,7						
volume tank	0,7 l	0,9 I	1,2	1,6 l						

Changes of measures and design are subject to alteration!

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3. Spare parts:

item	qty.	designation	dimension			article-no.		
			HPX 170	HPX 240	HPX 360	HPX 450		
1	1	filter element	01E.170	01E.240	01E.360	01E.450		
2	1	O-ring	34 x 3,5				304338 (NBR)	304730 (FPM)
3	1	O-ring	75 x 3			302215 (NBR)	304729 (FPM)	
4	1	support ring	81 x 2,6 x 1			304581		
5	2	O-ring	36 x 3			304358 (NBR)	313900 (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)		
13	1	screw plug	20913-4			309817		

item 13 execution only without clogging indicator or clogging sensor

4. Description:

The pressure filters of the series HPX 170-450 are suitable for a working pressure up to 315 bar.

The pressure peaks are absorbed by a sufficient margin of safety. The HPX-filter are flanged to the mounting face.

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 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 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

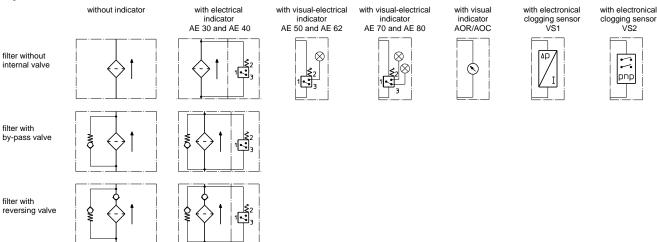
housing material: C-steel

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 '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