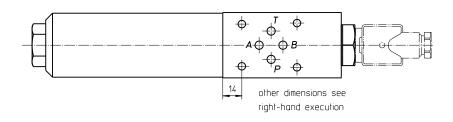
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Series HPZ 32 DN6 PN350

ØØ AAAA AID in {} □48 Ś 2 1 4 40.5 14 30.2 21.5 across 22 clogging indicator, optional | 12.7 0.75 5. width o T Φ Ð. 047 АÐ ⊕В ň Ħ € ∉ width across 30 ø 5.5 0.75 87 140 for extension 75

Left hand installation

Right hand installation



Weight: approx. 3,5 kg

Dimensions: mm

Designs and performance values are subject to change.



Pressure Filter Series HPZ 32 **DN6 PN350**

Description:

The HPZ series filter is a valve protection filter according to DIN 24340-A6. These pressure filters are mounted between the valve and manifold to provide extra protection for critical valves. The HPZ filter can be mounted on either side of the valve for easy filter maintenance, depending on the filter configuration.

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 5 µm_(c). Finer filtration is available upon request.

For cleaning the stainless steel mesh element (see special leaflets 21070-4 and 39448-4) or changing the filter element, remove the filter bowl and take out the element. The mesh elements are not guaranteed to maintain 100% performance after cleaning.

Eaton filter elements are known for high intrinsic stability and an excellent filtration capability, a high dirtretaining capacity and a long service life.

Eaton filter elements are available up to a pressure resistance of Δp 160 bar and a rupture strength of Δp 250 bar.

Eaton filter can be used for petroleum-based fluids, HW emulsions, water glycols, most synthetic fluids and lubrication fluids. Consult factory for specific fluid applications.

1. Type index:

1.1. Complete filter: (ordering example)									
HPZ. 32. 10VG. HR. E. P Z. 1 R. AE									
1 series: HPZ = pressure filter for sandwich stacking									
2 nominal size: 32									
3 filter-material and filter-fineness: 80G, 40G, 25G, 10G stainless steel wire mesh 25VG, 16VG, 10VG, 6VG, 3VG microglass									
4filter element collapse rating: 30 = $\Delta p \ 30 \ bar$ HR= $\Delta p \ 160 \ bar$ (rupture strength $\Delta p \ 250 \ bar$)									
5 filter element design:									
E = single-end open									
6 sealing material: P = Nitrile (NBR) V = Viton (FPM)									
7 filter element specification:									
- = standard VA = stainless steel									

8 process connection:

= sandwich stacking according to DIN 24340, T2 7

- 9 process connection size: 1 = A6 according to DIN 24340, T2
- 10 filter housing specification: = standard
- 11 head design:

= right-hand installation R L

= left-hand installation

12 clogging indicator or clogging sensor:

- = without
- AOR = visual, see sheet-no. 1606
- AOC = visual, see sheet-no. 1606
- AE = visual-electric, see sheet-no. 1615
- VS5 = electronic, see sheet-no. 1619

To add an indicator to your filter, use the corresponding indicator data sheet to find the indicator details and add them to the filter assembly model code.

1.2. Filter element: (ordering example)

01E. 30. 10VG. HR. E. P							
1 2 3 4 5 6 7							
1 series: 01E. = filter element according to company standard							
2 nominal size: 30							

3 - 7 see type index-complete filter

Technical data:

operating temperature: operating medium max. operating pressure: test pressure: process connection: housing material: sealing material: installation position:

volume tank:

-10°C to +100°C mineral oil, other media on request 350 bar 500 bar sandwich stacking according to DIN 24340-A6 EN-GJS-400-18-LT, C-steel (filter bowl) Nitrile (NBR) or Viton (FPM), other materials on request vertical (preferably) horizontal 0.1 I

Classified under the Pressure Equipment Directive 2014/68/EU for mineral oil (fluid group 2), Article 4, Para. 3. Classified under ATEX Directive 2014/34/EU according to specific application (see questionnaire sheet-no. 34279-4).

Pressure drop flow curves:

Filter calculation/sizing

The pressure drop of the assembly at a given flow rate Q is the sum of the housing Δp and the element Δp and is calculated as follows:

 Δp assembly = Δp housing + Δp element Δp housing = (see $\Delta p = f(Q)$ - characteristics)

$$\Delta p_{element} (mbar) = Q \left(\frac{l}{min}\right) x \frac{MSK}{10} \left(\frac{mbar}{l/min}\right) x v \left(\frac{mm^2}{s}\right) x \frac{p}{0.876} \left(\frac{kg}{dm^3}\right)$$

For ease of calculation our Filter Selection tool is available online at www.eaton.com/hydraulic-filter-evaluation

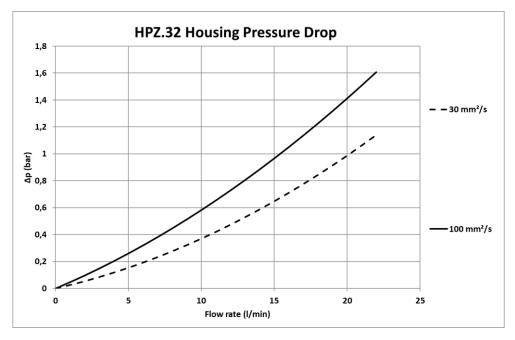
Material gradient coefficients (MSK) for filter elements

The material gradient coefficients in mbar/(l/min) apply to mineral oil (HLP) with a density of 0,876 kg/dm³ and a kinematic viscosity of 30 mm²/s (139 SUS). The pressure drop changes proportionally to the change in kinematic viscosity and density.

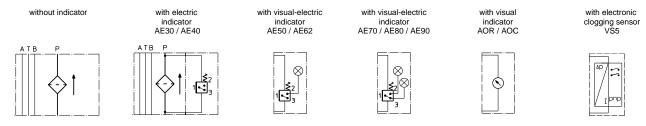
HPZ	VG					G		
	3VG	6VG	10VG	16VG	25VG	25G	40G	80G
32	10,116	7,023	4,496	3,915	2,674	0,2073	0,1935	0,1325

$\Delta p = f(Q) - characteristics according to ISO 3968$

The pressure drop characteristics apply to mineral oil (HLP) with a density of 0,876 kg/dm³. The pressure drop changes proportionally to the density.



Symbols:



Spare parts:

item	qty.	designation	dimension	article-no.	
1	1	filer element	01E.30		
2	1	O-ring	32 x 2,5	306843 (NBR)	308268 (FPM)
3	1	support ring	SRA 37 x 2,1 x 1	305466	
4	4	O-ring	9,25 x 1,78	304354 (NBR)	310268 (FPM)

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

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