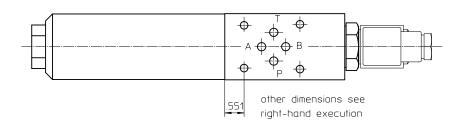
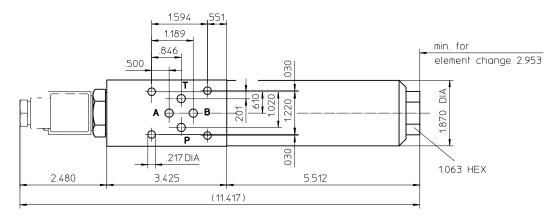
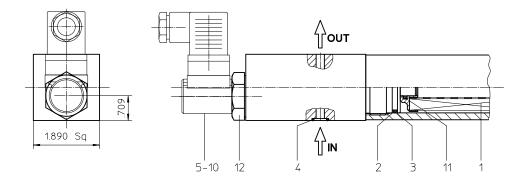
Series HPZ 32 5075 PSI



Left hand installation

Right hand installation





Weight: approx. 7.7 lbs.

Dimensions: inches

Designs and performance values are subject to change.



Pressure Filter Series HPZ 32 5075 PSI

Description:

The HPZ series filter is a valve protection filter according to DIN 24340-A6 (D03 & D05 pattern). 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 4 $\mu m_{(c)}$.

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

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

Eaton filter elements are available up to a pressure resistance of Δp 2320 PSI and a rupture strength of Δp 3625 PSI.

1. Type index:

1.1. Complete filter: (ordering example)

HF	PZ. 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						
4	filter element collapse rating:						
	30 = Δp 435 PSI HR = Δp 2320 PSI (rupture strength Δp 3625 PSI)						
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: 7 = sandwich stacking according to DIN 24340 T2						
~							
9	process connection size:						
	1 = A6 according to DIN 24340, T2						
10	filter housing specification: (see catalog)						
	- = standard						

11 head design:

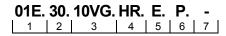
- R = right-hand installation
- L = left-hand installation

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)



1 series:

- 01E. = filter element according to company standard
- 2 nominal size: 30
- 3 7 see type index-complete filter

Technical data:

design temperature: operating temperature: operating medium max. operating pressure: test pressure: process connection: housing material: sealing material: installation position: volume tank: 14 °F to +212 °F 14 °F to +176 °F mineral oil, other media on request 5075 PSI 7257 PSI (master gauge for holes) DIN 24340-A6 EN-GJS-400-18-LT, C-steel Nitrile (NBR) or Viton (FPM), other materials on request vertical 0.02 Gal

Classified under the Pressure Equipment Directive 2014/68/EC for mineral oil (fluid group 2), Article 4, Para. 3. Classified under ATEX Directive 2014/34/EC 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)

$$\Delta p_{element} (PSI) = Q (GPM) x \frac{MSK}{1000} \left(\frac{PSI}{GPM}\right) x v(SUS) x \frac{\rho}{0.876} \left(\frac{kg}{dm^3}\right)$$

For ease of calculation our Filter Selection tool is available online at www.eatonpowersource.com/calculators/filtration/

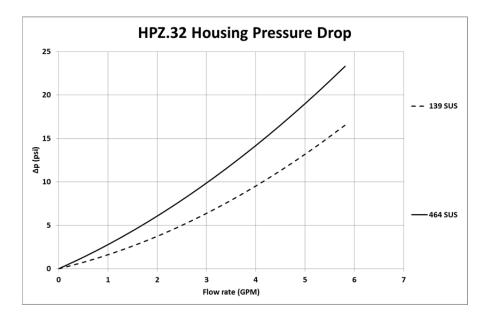
Material gradient coefficients (MSK) for filter elements

The material gradient coefficients in psi/gpm apply to mineral oil (HLP) with a density of 0.876 kg/dm³ and a kinematic viscosity of 139 SUS (30 mm²/s). The pressure drop changes proportionally to the change in kinematic viscosity and density.

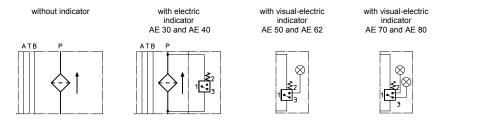
HPZ	VG					G		
	3VG	6VG	10VG	16VG	25VG	25G	40G	80G
32	12.554	8.716	5.580	4.794	3.275	0.2539	0.2369	0.1623

<u>∆p = f(Q) – characteristics according to ISO 3968</u>

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:





with visual

indicator

AOR/AOC

 \odot

clogging sensor VS5



Spare parts:

item	qty.	designation	dimension	article-no.		
1	1	filer element	01E.30			
2	1	support ring	SRA 27 x 2,1 x 1	305466		
3	1	O-ring	32 x 2,5	306843 (NBR) 308268 (FPM)		
4	4	O-ring	9,25 x 1,78	304354 (NBR)	310268 (FPM)	
5	1	clogging indicator, visual	AOR or AOC	see sheet no. 1606		
6	1	clogging indicator, visual-electric	AE	see sheet no. 1615		
7	1	clogging sensor, electronic	VS5	see sheet no. 1619		
8	1	O-ring	15 x 1,5	315357 (NBR)	315427 (FPM)	
9	1	O-ring	22 x 2	304708 (NBR)	304721 (FPM)	
10	1	O-ring	14 x 2	304342 (NBR)	304722 (FPM)	
11	1	O-ring	11 x 3	312603 (NBR)	312727 (FPM)	
12	1	screw plug	20913-4	309817		

item 12 execution only without clogging indicator or clogging sensor

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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