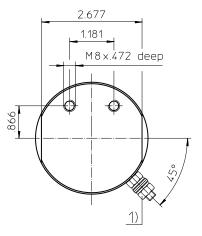
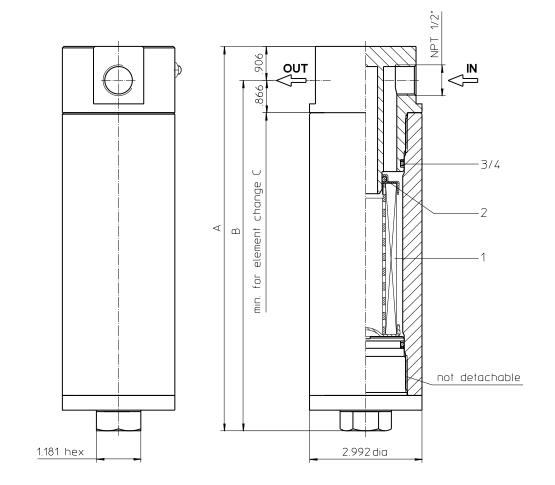
Series EHP 60-90 10150/20300 PSI

Dimensions:

type	EHP 60	EHP 90		
connection	NPT 1⁄2"			
A	10.27	12.83		
В	9.37	11.93		
С	14.17	16.73		
weight lbs.	18	22		
volume tank	.08 Gal.	.10 Gal.		



1) Connection for the potential equalization, only for application in the explosive area.





Dimensions: inches

Designs and performance values are subject to change.

Stainless Steel-Pressure Filter Series EHP 60-90 10150/20300 PSI

Description:

Stainless steel pressure filter series EHP 31 have a working pressure up to 10150 or 20300 PSI. Pressure peaks can be absorbed with a sufficient safety margin. The EHP-filter is inline 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 $5 \ \mu m_{(c)}$. Finer filtration is available upon request.

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

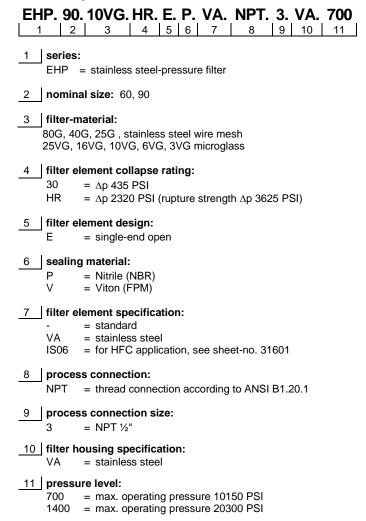
Eaton filter elements are available up to a pressure resistance of Δp 2320 PSI and a rupture strength of Δp 3625 PSI.

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.

The internal valve is integrated into the filter head. After reaching the bypass pressure setting, the bypass valve will send unfiltered partial flow around the filter.

1. Type index:

1.1. Complete filter: (ordering example)



1.2. Filter element: (ordering example)

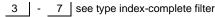
01E. 90. 10VG. HR. E. P. VA



1 series:

01E. = filter element according to company standard

2 nominal size: 60, 90



Technical data:

operating temperature: operating medium: max. operating pressure: test pressure: process connection: housing material: sealing material: installation position: +14 °F to +212 °F mineral oil, other media on request 10150 PSI 20300 PSI 14500 PSI 29000 PSI thread connection EN10088-3 - 1.4418 + QT900 Nitrile (NBR) or Viton (FPM), other materials on request vertical

Pressure stage 10150: Classified under the Pressure Equipment Directive 2014/68/EU for mineral oil (fluid group 2), Article 4, Para. 3. Pressure stage 20300: Classified under the Pressure Equipment Directive 2014/68/EU for mineral oil (fluid group 2), Category I (Modul A) 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)

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

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

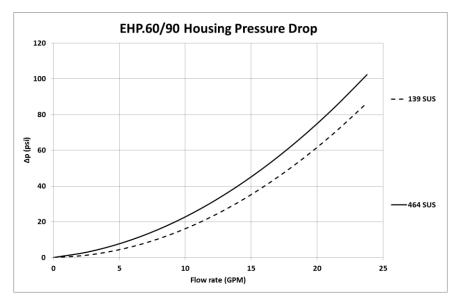
Material gradient coefficients (MSK) for filter elements

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.

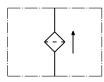
EHP	VG				G			
	3VG	6VG	10VG	16VG	25VG	25G	40G	80G
60	6.748	4.685	2.999	2.577	1.760	0.2002	0.1868	0.1280
90	4.059	2.818	1.804	1.550	1.059	0.1210	0.1130	0.0774

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

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.



Symbol:



Spare parts:

item	qty.	designation	dime	nsion	article-no.		
		_	EHP 60	EHP 90			
1	1	filter element	01E.60	01E.90			
2	1	O-ring	22 x	3,5	304341 (NBR)	304392(FPM)	
3	1	O-ring	45 x 3		304991 (NBR)	304997 (FPM)	
4	1	support ring	52 x 2,6 x 1		311013		

Test methods:

Filter elements are tested according to the following ISO standards:

ISO 2941Verification of collapse/burst resistanceISO 2942Verification of fabrication integrityISO 2943Verification of material compatibility with fluidsISO 3723Method for end load testISO 3724Verification of flow fatigue characteristicsISO 3968Evaluation of pressure drop versus flow characteristicsISO 16889Multi-pass method for evaluating filtration performance

North America 44 Apple Street Tinton Falls, NJ 07724 Toll Free: 800 656-3344 (North America only) Tel: +1 732 212-4700

Europe/Africa/Middle East Auf der Heide 2 53947 Nettersheim, Germany Tel: +49 2486 809-0

Friedensstraße 41 68804 Altlußheim, Germany Tel: +49 6205 2094-0

An den Nahewiesen 24 55450 Langenlonsheim, Germany Tel: +49 6704 204-0

Greater China

No. 7, Lane 280, Linhong Road Changning District, 200335 Shanghai, P.R. China Tel: +86 21 5200-0099

Asia-Pacific

100G Pasir Panjang Road #07-08 Interlocal Centre Singapore 118523 Tel: +65 6825-1668

For more information, please email us at *filtration*@eaton.com or visit www.eaton.com/filtration

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