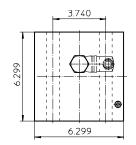
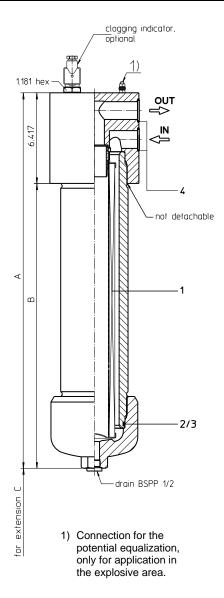
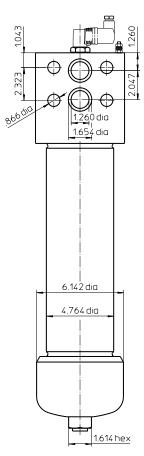
Series HPX 601-1351 4568 PSI

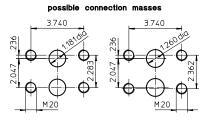
Dimensions:

type	HPF 601	HPF 901	HPF 1351	
connection	1 1/4"			
Α	20.67	26.57	36.33	
В	14.25	20.15	29.92	
С	12.20	18.11	27.95	
weight	110 lbs.	121 lbs.	145 lbs.	
volume tank	.55 Gal.	.82 Gal.	1.21 Gal.	









Dimensions: inches

Designs and performance values are subject to change.

Pressure Filter Series HPX 601-1351 4568 PSI

Description:

Pressure filter series HPX 601-1351 have a working pressure up to 4568 PSI. Pressure peaks can be absorbed with a sufficient safety margin. The HPX-filters are flanged to the mounting-surface.

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 highquality 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 or changing the filterer element, remove the cover 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 dirt-retaining capacity and a long service life.

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.

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

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.

The reversing valve provides another level of protection for the filter element. The reverse flow will not be filtered.

Type index:

Complete filter: (ordering example)

HPX. 901. 10VG. HR. E. P. -. F. 6. -. -. AE 2 3 4 5 6 7 8 9 10 11 12

1 series:

HPX = pressure filter, manifold mounted

2 **nominal size**: 601, 901, 1351

3 filter-material:

80G, 40G, 25G stainless steel wire mesh 25VG, 16VG, 10VG, 6VG, 3VG microglass

4 filter element collapse rating:

= Δp 435 PSI

= Δp 2320 PSI (rupture strength Δp 3625 PSI)

5 | filter element design:

= single-end open

6 sealing material:

= Nitrile (NBR) = Viton (FPM)

7 filter element specification:

- = standard VA = stainless steel

IS06 = for HFC applications, see sheet-no. 31601

8 process connection:

= manifold mounted

9 process connection size:

= 1 1/4"

10 filter housing specification:

= standard

IS06 = for HFC applications, see sheet-no. 31605

11 internal valve:

= with by-pass valve Δp 51 PSI S2 = with by-pass valve Δp 102 PSI = reversing valve, Q ≤ 122.94 GPM

12 clogging indicator or clogging sensor:

= without

AOR = visual, see sheet-no. 1606 AOC = visual, see sheet-no. 1606 = visual-electric, see sheet-no. 1615

VS5 = electronic, see sheet-no. 1619

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

Filter element: (ordering example)

01E. 900. 10VG. HR. E. P. 1 2 3 4 5 6 7

1 series:

01E. = filter element according to company standard

2 | nominal size: 600, 900, 1350

3 - 7 | see type index-complete filter

Technical data:

operating temperature: +14°F to +212°F

operating medium mineral oil, other media on request

max. operating pressure: 4568 PSI test pressure: 6525 PSI process connection: 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 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)

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

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

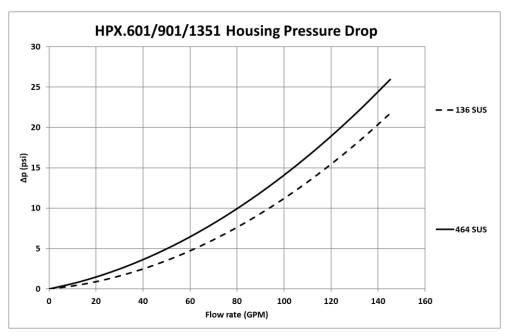
Material gradient coefficients (MSK) for filter elements

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.

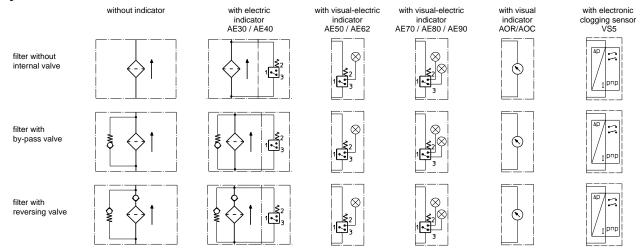
HPX	VG				G			
	3VG	6VG	10VG	16VG	25VG	25G	40G	80G
601	0.963	0.669	0.428	0.368	0.251	0.0303	0.0282	0.0193
901	0.668	0.464	0.297	0.225	0.174	0.0189	0.0177	0.0121
1351	0.417	0.290	0.185	0.185	0.109	0.0122	0.0114	0.0078

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

The pressure drop characteristics apply to mineral oil (HLP) with a density of 0.876 kg/dm³. The pressure drop changes proportionally to density.



Symbols:



Spare parts:

item	qty.	designation	dimension			article-no.		
			HPX 601	HPX 901	HPX 1351			
1	1	filter element	01E.600	01E.900	01E.1350			
2	1	O-ring	98 x 4			301914 (NBR)	304765 (FPM)	
3	1	support ring	110 x 3,5 x 2		110 x 3,5 x 2 304802		802	
4	2	O-ring	36 x 3		304358 (NBR)	313900 (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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