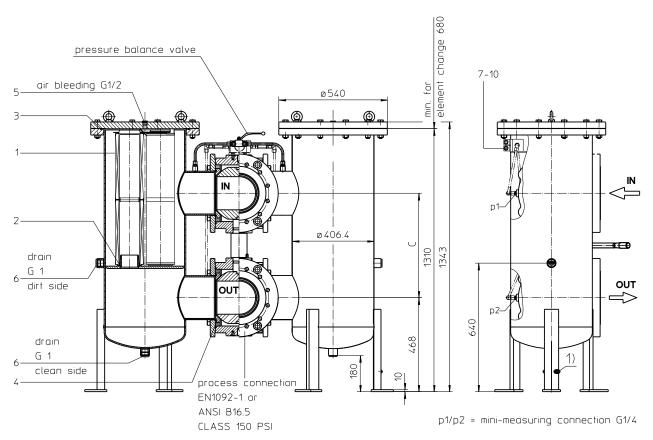
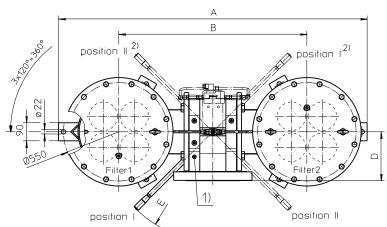
Series EDWF 6005 PN 16





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

Switch lever standard in the front.

 On request: The switch lever can be moved to backside of the changeover valve, opposite to the inlet and outlet.
Please specify this configuration on the order.

Position I: Filter 1 in operation Position II: Filter 2 in operation

Dimensions:

١	process	Α	В	С	D		D		Е	weight kg	volume tank
	connection				DIN EN	ANSI					
	6" (DN150)	1476	876	440	207	207	430	665	2x 130 l		
	8" (DN200)	1536	936	520	244	244	540	750	2x 130 l		

Dimensions: mm

Designs and performance values are subject to change.



Duplex Pressure filter Series EDWF 6005 PN 16

Description:

Duplex pressure filter series EDWF 6005 have a working pressure up to 16 bar. Pressure peaks can be absorbed with a sufficient safety margin.

A changeover ball valve between the two filter housings makes it possible to switch from the dirty filter side to the clean filter side without interrupting operation. The filters can be installed as a suction filter, pressure filter or return line filter.

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

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

For filtration finer than 25 µm, use the disposable elements made of microglass. Filter elements as fine as 3 µm are available; finer filter elements are 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 are suitable for all petroleum based fluids. HWemulsions, most synthetic hydraulic fluids and lubrication

Ship classifications available upon request.

Type index:

Complete filter: (ordering example)

EDWF. 6005. 10VG. 10. E. P. VA. FD1. E. VA. -. 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |

KH. OE 12 13

1 series:

EDWF = stainless steel-double welded filter

2 nominal size: 6005

3 | filter material:

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

4 filter element collapse rating:

 $= \Delta p 10 bar$

5 filter element design:

= without by-pass F

S = with by-pass valve $\Delta p 2.0$ bar

6 sealing material:

= Nitrile (NBR)

= Viton (FPM)

7 | filter element specification:

= standard = stainless steel

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

8 process connection:

= flange EN1092-1, design B1 = flange EN1092-1, design B2 FD2

FA11 = flange ANSI CLASS 150 PSI,

sealing surface Rz = 160 µm (not finer than 40 µm)

FA12 = flange ANSI CLASS 150 PSI. sealing surface Rz = 16 µm

9 process connection size:

= 6" (DN150)

= 8" (DN200) standard

10 filter housing specification:

= stainless steel

11 specification pressure vessel:

= standard (PED 2014/68/EU)

IS20 = ASME VIIÌ Div.1 with ASMÉ equivalent material,

see sheet-no. 55217

12 shut-off:

= without

= with shut-off ball valve

13 clogging indicator or clogging sensor:

= without

= visual-electrical, see sheet-no. 1609

OP = visual, see sheet-no. 1614 OF

= visual-electrical, see sheet-no. 1614

= electronic, see sheet-no. 1641

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. 1501.10VG. 10. E. P. VA 1 2 3 4 5 6 7

1 series:

01E = filter element according to company standard

2 **nominal size:** 1501

3 - 7 see type index-complete filter

Accessories:

- drain- and bleeder connection, see sheet-no. 1651
- lifting mechanism, see sheet-no. 1662

Technical data:

operating temperature: -10 °C to +100 °C

operating medium: mineral oil, other media on request

max. operating pressure: 16 bar test pressure: 23 bar

standard process connection: flange EN 1092-1, 16 bar or flange ANSI B16.5 CLASS 150 PSI

housing material: stainless steel

sealing material: Nitrile (NBR) or Viton (FPM), other materials on request

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)

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

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

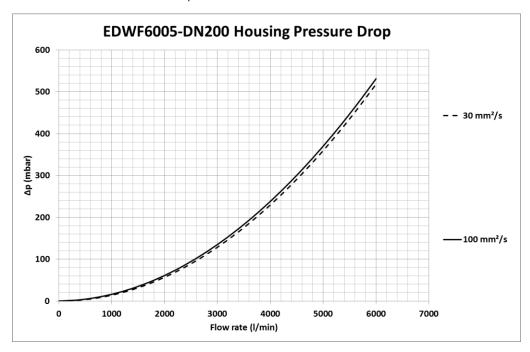
Material gradient coefficients (MSK) for filter elements

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.

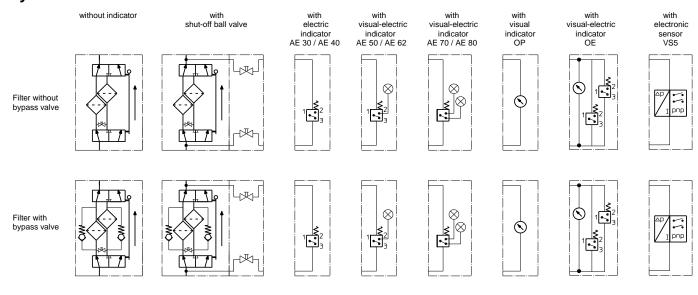
EDWF	VG					G				API	
	3VG	6VG	10VG	16VG	25VG	10G	25G	40G	80G	10 API	25 API
6005	0,040	0,028	0,018	0,015	0,011	0,0014	0,0011	0,0010	0,0007	0,010	0,004

∆p=f(Q) - characteristic according 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. The flow curve for DN150 available on request.



Symbols:



Spare parts:

item	qty.	designation	dimension	artikle	e-no.		
1	8	filter element	01E.1501				
2	8	O-ring	93 x 5	307588 (NBR)	307589 (FPM)		
3	2	O-ring	429 x 6	308659 (NBR)	310273 (FPM)		
4	4	gasket kit of changeover UKK	6" (DN150)				
	4	gasket kit of changeover UKK	8" (DN200)				
5	2	screw plug	G ½	306966			
6	4	screw plug	G 1	3053	305303		
7	1	clogging indicator, visual-electric	AE	see sheet-no. 1609			
8	1	clogging indicator, visual	OP	see sheet-no. 1614			
9	1	clogging indicator, visual-electric	OE	see sheet-no. 1614			
10	1	clogging sensor, electronic	VS5	see sheet	-no. 1641		

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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