

Series EDWF 6005

232 PSI

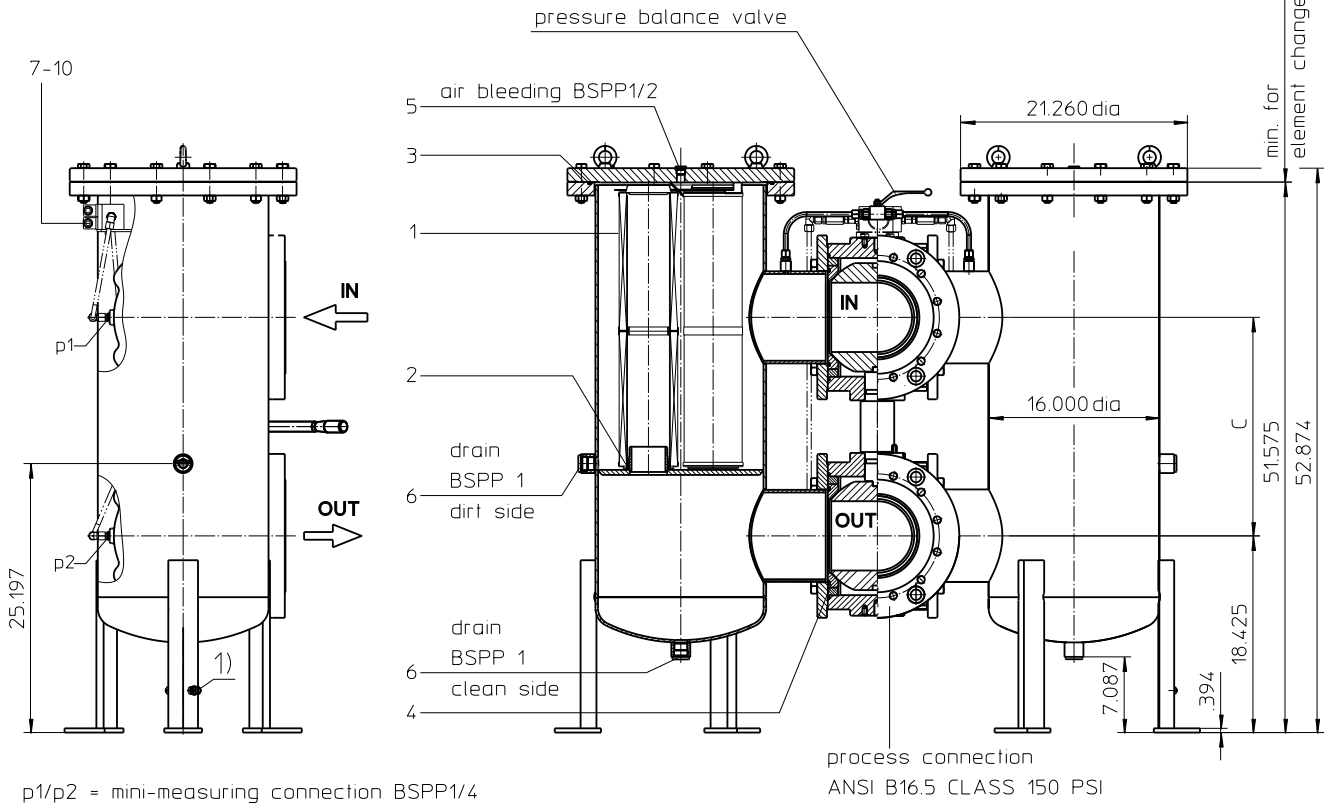
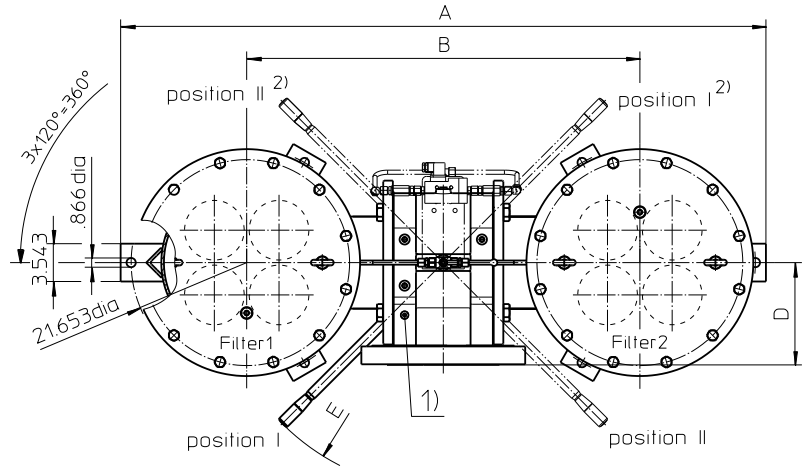
- 1) Connection for the potential equalization, only for application in the explosive area.

Switch lever standard in the front.

- 2) 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:

process connection	A	B	C	D	E	weight	volume tank
6"	58.11	34.48	17.32	8.14	16.92	1466 lbs.	2x 34 Gal.
8"	60.47	36.85	20.47	9.60	21.26	1653 lbs.	2x 34 Gal.

Dimensions: inches

Designs and performance values are subject to change.

Duplex Pressure Filter

Series EDWF 6005

232 PSI

Description:

Stainless steel-duplex pressure filter series EDWF 6005 have a working pressure up to 232 PSI. 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 high-quality adhesive. The flow direction is from outside to inside.

For cleaning the stainless steel mesh element or changing the 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 filters are suitable for all petroleum based fluids, HW-emulsions, most synthetic hydraulic fluids and lubrication oils.

Ship classifications available upon request.

Type index:

Complete filter: (ordering example)

EDWF. 6005. 10VG. 10. E. P. VA. FA11. E. VA. -.

1	2	3	4	5	6	7	8	9	10	11
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KH. OE

12	13
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- | | |
|----|---|
| 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:
10 = Δp 145 PSI |
| 5 | filter element design:
E = without by-pass
S = with by-pass valve Δp 29 PSI |
| 6 | sealing material:
P = Nitrile (NBR)
V = Viton (FPM) |
| 7 | filter element specification:
- = standard
VA = stainless steel
IS06 = for HFC application, see sheet-no. 31601 |
| 8 | process connection:
FA11 = flange ANSI CLASS 150 PSI,
sealing surface rough grind 1600-3600 µin
FA12 = flange ANSI CLASS 150 PSI,
sealing surface rough grind < 640 µin |
| 9 | process connection size:
D = 6"
E = 8" (standard) |
| 10 | filter housing specification:
VA = stainless steel |
| 11 | specification pressure vessel:
- = standard (PED 2014/68/EU)
IS20 = ASME VIII Div.1 with ASME equivalent material,
see sheet-no. 55217 |
| 12 | shut-off :
- = without
KH = with shut-off ball valve |
| 13 | clogging indicator or clogging sensor:
- = without
AE = visual-electrical, see sheet-no. 1609
OP = visual, see sheet-no. 1614
OE = visual-electrical, see sheet-no. 1614
VS5 = 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
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- | | |
|---|--|
| 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:	+14 °F to +212 °F
operating medium:	mineral oil, other media on request
max. operating pressure:	232 PSI
test pressure:	333 PSI
standard process connection:	flange ANSI B16.5 CLASS 150 PSI
housing material:	stainless steel
sealing material:	Nitrile (NBR) or Viton (FPM), other materials on request
installation position:	vertical
bleeder connections:	BSPP ½
drain connections:	BSPP 1
measure connections:	BSPP ¼

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:

$$\Delta p_{assembly} = \Delta p_{housing} + \Delta p_{element}$$

$$\Delta p_{housing} = (\text{see } \Delta p = f(Q) \text{ - characteristics})$$

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

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

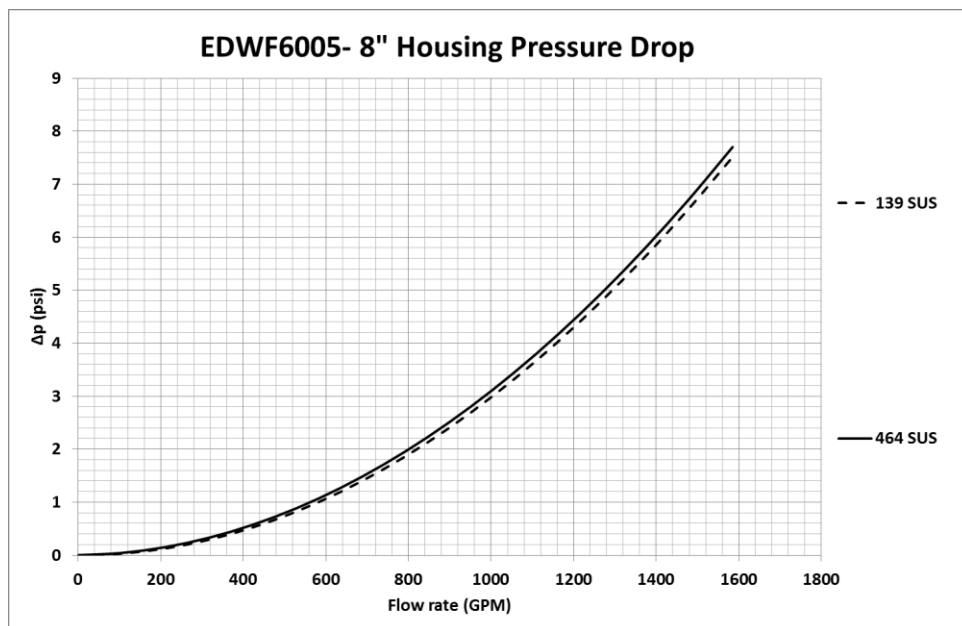
Material gradient coefficients (MSK) for filter elements

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.

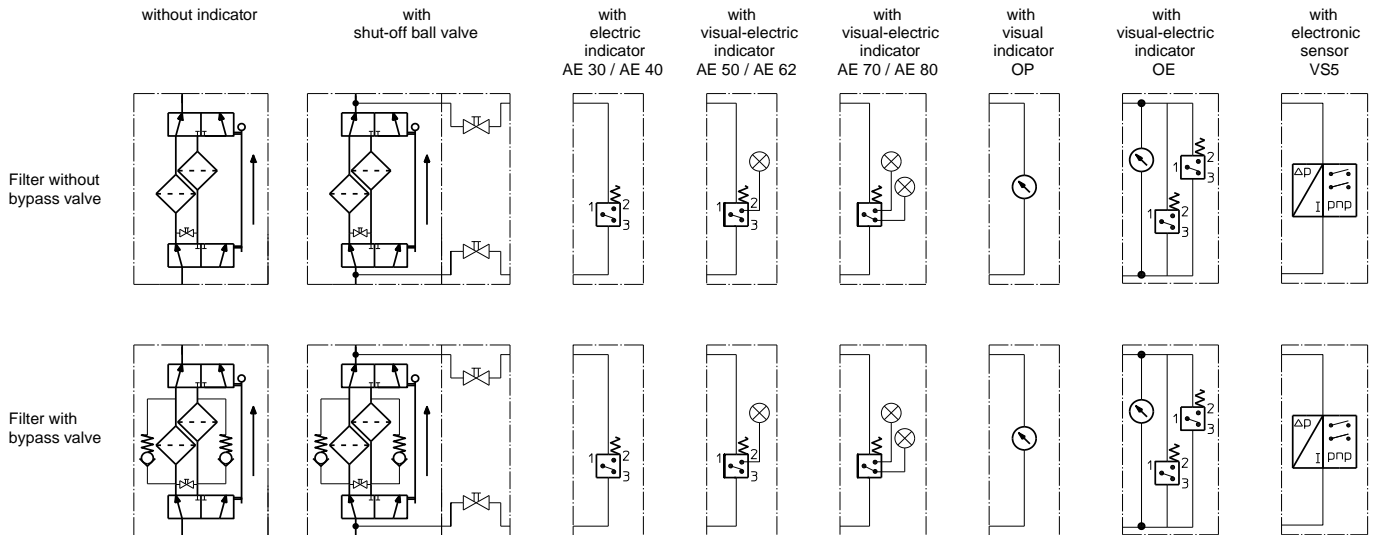
EDWF	VG					G				API	
	3VG	6VG	10VG	16VG	25VG	10G	25G	40G	80G	10 API	25 API
6005	0.048	0.033	0.021	0.019	0.013	0.0018	0.0013	0.0012	0.0008	0.012	0.005

$\Delta p=f(Q)$ – 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 6" available on request.



Symbols:



Spare parts:

item	qty.	designation	dimension	artikl-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"	
	4	gasket kit of changeover UKK	8"	
5	2	screw plug	BSPP 1/2	306966
6	4	screw plug	BSPP 1	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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