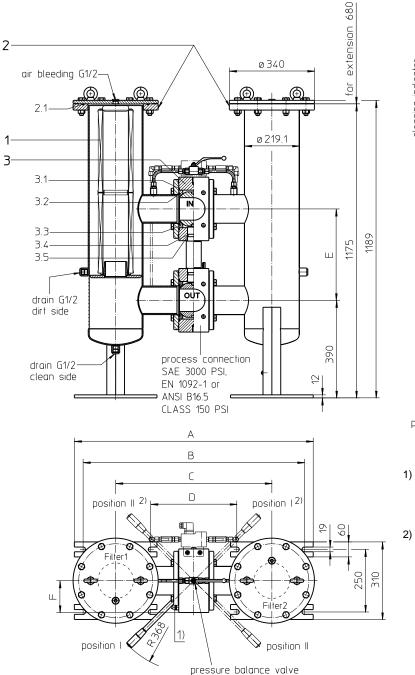
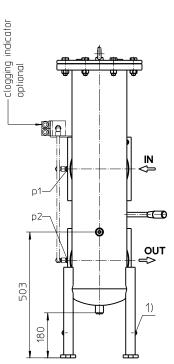
Series EDWF 1505 PN 16





p1/p2 = mini measuring connction G1/4

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.

Dimensions:

process	Α	В	С	D	E	F			F weight		
connection						SAE	DIN EN	ANSI			
4" (DN100)	954	884	624	364	365	127	231	255	250 kg	2x 33 l	
5" (DN125)	992	922	662	402	395	135	242	276	285 kg	2x 33 l	



Dimensions: mm Designs and performance values are subject to change.

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

Pressure Filter, changeover Series EDWF 1505 PN 16

Description:

Duplex pressure filter series EDWF 1505 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 high-quality adhesive. The flow direction is from outside to inside.

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 μ m, use the disposable elements made of microglass. Filter elements as fine as 3 μ m 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, HW-emulsions, most synthetic hydraulic fluids and lubrication oils.

Ship classifications available upon request.

EDWF.	1505.	10VG.	10.	E.	P.	VA.	FS .	B.	V/
KH. OE 12 13	.								
1 series		nless steel-	doubl	e we	lded	filter			
2 nomir	nal size:	1505							
80G, 4 25VG,	, 16VG, 1	, 10G stain 0VG, 6VG, nicroglass a	3VG	micr	ogla	SS			
		collapse ra							
5 filter e	element o	design:							
ES		out by-pass by-pass va		20	har				
	ig materi	• •		,0	Jai				
P V	= Nitrile = Viton	e (NBR)							
7 filter e - VA	= stand	specificati dard less steel	on:						
IS06		FC applica	tion, s	see s	heet	-no. 3′	1601		
8 proce FS FD1 FD2 FA11	= flang = flang	flange 300 e EN1092- e EN1092- e ANSI CL	1, des 1, des	sign l sign l	B2				
FA12	seali = flang	ng surface e ANSI CL ng surface	Rz = ASS [·]	160 150 F	µm (ı PSI,	not fine	er thar	140 µ	um)
9 proce B		ection size N100) star		•					
C 10 filter I	-	specificati	on:						
VA 11 speci		less steel	امععما						
-	= stand = ASM	lard (PED) E VIII Div.1 sheet-no. 5	2014/ I with	68/E		quivale	nt mat	erial	,
12 shut-									
KH		shut-off ba							
13 clogg	ing indic = withc		oggin	g sei	nsor	:			
AE OP OE	= visua = visua = visua	Il-electrical Il, see shee Il-electrical	et-no. , see :	1614 shee	l t-no.				
VS5	= elect	ronic, see s	sheet	-no. 1	1641				

Filter element: (ordering example)

01E.	1501.	10VG.	10.	Ε.	Ρ.	VA	
1	2	3	4	5	6	7	

1 series:

2

nominal size: 1501

01E = filter element according to company standard

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 SAE-flange 3000 PSI standard process connection: housing material: stainless steel sealing material: Nitrile (NBR) or Viton (FPM), other materials on request installation position: vertical drain- and bleeder connections: G ½ measure connections: G 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:

 Δp assembly = Δp housing + Δp element Δp housing = (see $\Delta p = f(Q)$ - characteristics)

$$\Delta p \text{ element (mbar)} = Q \left(\frac{l}{\min}\right) x \frac{MSK}{10} \left(\frac{mbar}{l/min}\right) x v \left(\frac{mm^2}{s}\right) x \frac{p}{0,876} \left(\frac{kg}{dm^3}\right)$$

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

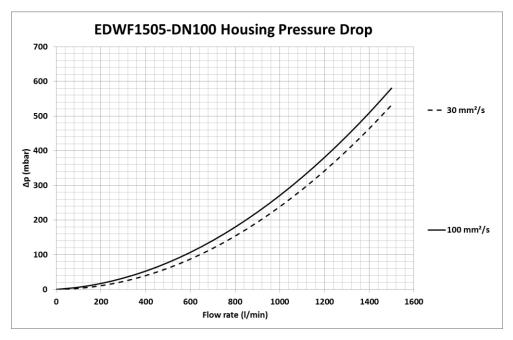
Material gradient coefficients (MSK) for filter elements

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.

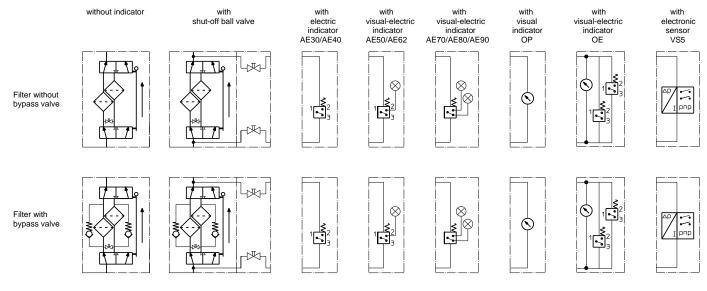
EDWF VG					G				API		
	3VG	6VG	10VG	16VG	25VG	10G	25G	40G	80G	10 API	25 API
1505	0,160	0,111	0,071	0,062	0,042	0,0058	0,0043	0,0040	0,0027	0,039	0,018

<u>∆p=f(Q) – characteristic according 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. The flow curve for DN125 available on request.



Symbols:



Spare parts:

item	qty.	designation	dimension	artik	le-no.
1	2	filter element	01E.1501		
2	1	gasket kit filter housing:			
2.1	2	O-ring	250 x 5	350335 (NBR)	350678 (FPM)
3	1	gasket kit of switching over UKK100 consisting of:	4" (DN100)	355180 (NBR)	355181 (FPM)
3.1	4	O-ring	158 x 4		
3.2	4	O-ring	114 x 6		
3.3	4	gasket	DN100		
3.4	2	O-ring	45 x 3		
3.5	2	support ring	50 x 45,2 x 5		
3	1	gasket kit of switching over UKK125 consisting of:	5" (DN125)	355569 (NBR)	355570 (FPM)
3.1	4	O-ring	190 x 5		
3.2	4	O-ring	140 x 6		
3.3	4	gasket	DN125		
3.4	2	O-ring	45 x 3		
3.5	2	support ring	50 x 45,2 x 5		

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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