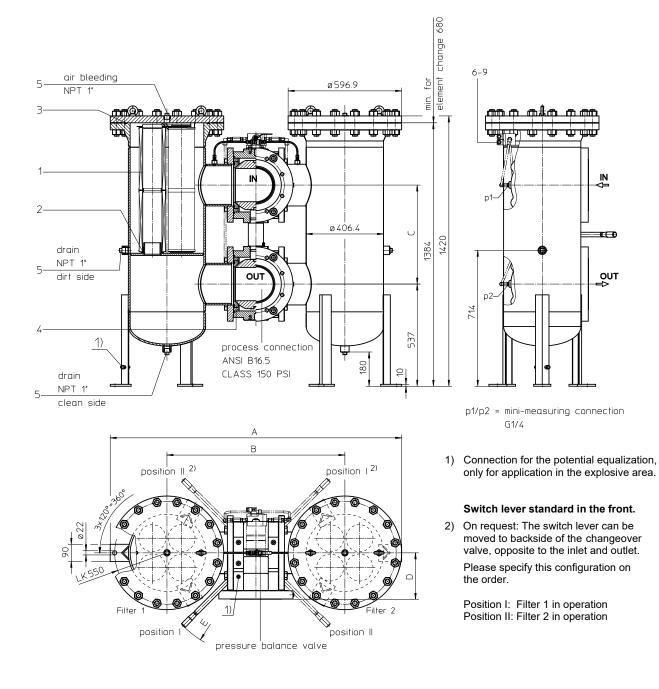
Series DWFA 6005 CLASS 150 PSI



Dimensions:

process- connection	A	В	С	D	E	weight	volume tank
6" (DN150)	1463	866	440	207	430	820 kg	2x 136 l
8" (DN200)	1533	936	520	244	534	903 kg	2x 136 l



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

Duplex Pressure Filter Series DWFA 6005 CLASS 150 PSI

Description:

Duplex filter series DWFA 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 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 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.

Type index:

Complete filter: (ordering example)

	•		10VG.	-		-	_	FΔ1	1	F	- 19	221
	1	2	3	4	5	6	7	8		-	10	11
K	H. OE 2 13	-							•			
1	series:											
			ole welded	filter	r, acc	cordir	ig to	ASME	E-co	de		
2	1	al size: 6	6005									
3	80G, 4 25VG,	16VG, 1	, 10G stai 0VG, 6VG nicroglass	6, 3V	G mi	crogla	ass	sh				
4	filter el	ement o	ollapse r	ating	J:							
	10	= ∆p 10) bar									
5	1	ement c	•									
			ut by-pass by-pass va		Ap 2,0) bar						
6		g materia										
	•	= Nitrile = Viton	e (NBR) (FPM)									
7	L		pecificat	ion:								
	VA		ess steel FC applica	ation,	see	shee	t-no.	3160 ⁻	1			
8	proces	s conne	ection:									
	FA11		e ANSI CL				(nat t	in or th		40	m)	
	FA12	= flange	ng surface e ANSI CL ng surface	ASS.	150	ΡSI,	(not i	iner u	lan	40 µ	m)	
9	proces	s conne	ction size	e:								
		= 6" (D = 8" (D	N150) N200) stai	ndaro	ł							
10	filter h	ousing s	specificat	ion:								
			lard Ial parts o heet-no. 4			overa	arma	ture st	tain	less	steel,	
11			F ressure v E VIII Div.			tamp	, see	e shee	t-nc	o. 434	415	
12	shut-o	ff:										
		= witho		.	lu e							
4.0			shut-off ba									

- 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 = sensor, 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	1.1	0VC). 1	10.	Ε.	Ρ.	-
L			1	~	1				

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 acc. to ASME VIII Div. 1: 1,3 x operating pressure = 21 bar test pressure acc. to API 614, Chapter 1: 1,5 x operating pressure = 24 bar standard process connection: flange ANSI B16.5 CLASS 150 PSI housing material: carbon steel (ASTM) EN-GJS-400-18-LT housing material changeover: sealing material: Nitrile (NBR) or Viton (FPM), other materials on request installation position: vertical drain- and bleeder connections: NPT 1' measure connections: G 1/4 operating pressure adapter flanges: according to B16.5 CLASS 150 PSI (max. 16 bar)

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.eatonpowersource.com/calculators/filtration/

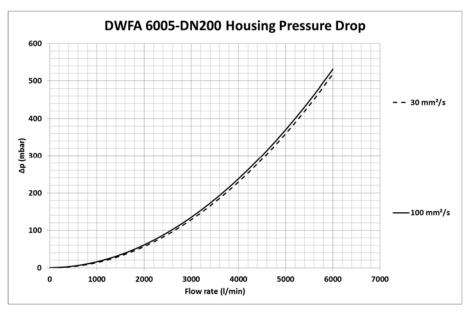
Material gradient coefficients (MSK) for filter elements

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.

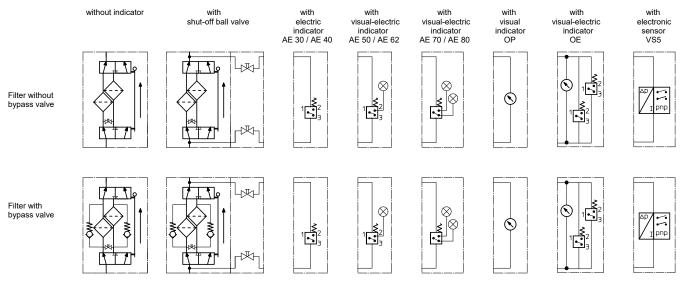
DWFA	WFA VG					G				API	
	3VG	6VG	10VG	16VG	25VG	10G	25G	40G	80G	10 API	25 API
6005	0,040	0,028	0,018	0,015	0,011	0,0014	0,0011	0,0010	0,0007	0,010	0,004

<u>∆p = f(Q) – characteristics according to 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 DN150 available on request.



Symbols:



Spare parts:

item	qty.	designation	dimension	Artic	le-no.
1	8	filter element	01E.1501		
2	8	O-ring	93 x 5	307588 (NBR)	307589 (FPM)
3	2	O-ring	17" ID x 0.210 CS	237501709	3 (BUNA-N)
4	4	gasket kit of change over UKK	6" (DN150)		
	4	gasket kit of change over UKK	8" (DN200)		
5	6	screw plug	NPT 1"	ST50)1Z35
6	1	clogging indicator, visual-electric	AE	see shee	t-no.1609
7	1	clogging indicator, visual	OP	see shee	t-no 1614
8	1	clogging indicator, visual-electric	OE	see shee	t-no 1614
9	1	clogging sensor, electronic	VS5	see shee	t-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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