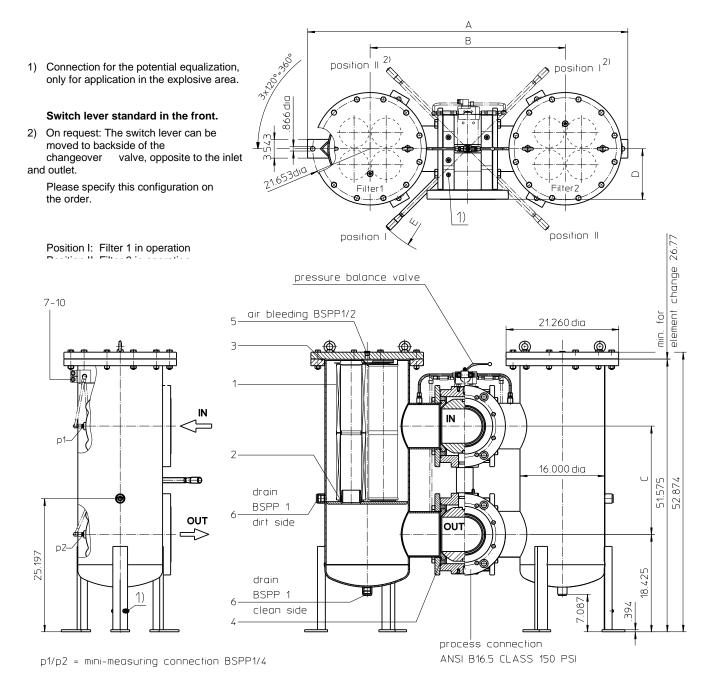
Series DWF 6005 232 PSI



Dimensions:

process connection	Α	В	С	D	Е	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.



Pressure Filter, change over Series DWF 6005 232 PSI

Description:

Pressure filter change over series DWF 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 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 filters are suitable for all petroleum based fluids, HWemulsions, most synthetic hydraulic fluids and lubrication oils.

Ship classifications available upon request.

Type index:

Complete filter: (ordering example)

			10VG.				-			-	-	
1	1	2	3	4	5	6	7	8	9	10	11	

KH. OE

12 13

- 1 series:
- = double welded filter DWF
- 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 = ∆p 145 PSI
- 5 filter element design:
 - = without by-pass Е S
 - = with by-pass valve ∆p 29 PSI
- 6 sealing material:
 - = 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"
 - = 8" (standard) F
 - 10 | filter housing specification:
 - = standard
 - IS12 = internal parts of change over armature stainless steel, see sheet-no. 41028

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
 - ĸн = with shut-off ball valve
- 13 clogging indicator or clogging sensor:
 - = without
 - AE = visual-electric, see sheet-no. 1609
 - OP = visual. see sheet-no. 1614
 - OE = visual-electric, 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. -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: +14 °F to +212 °F operating medium: mineral oil, other media on request max. operating pressure: 232 PSI 333 PSI test pressure: standard process connection: flange ANSI B16.5 CLASS 150 PSI housing material: carbon steel housing material changeover : EN-GJS-400-18-LT sealing material: Nitrile (NBR) or Viton (FPM), other materials on request installation position: vertical bleeder connections: BSPP ½ drain connections: BSPP 1 BSPP 1/4 measure connections:

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)

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

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

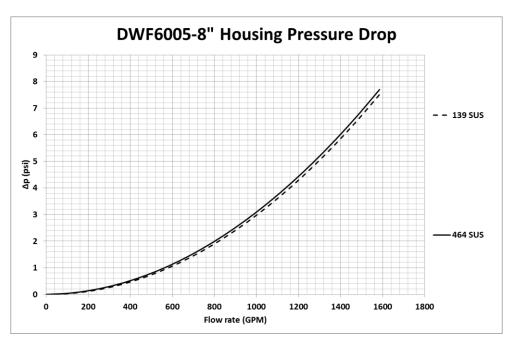
Material gradient coefficients (MSK) for filter elements

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.

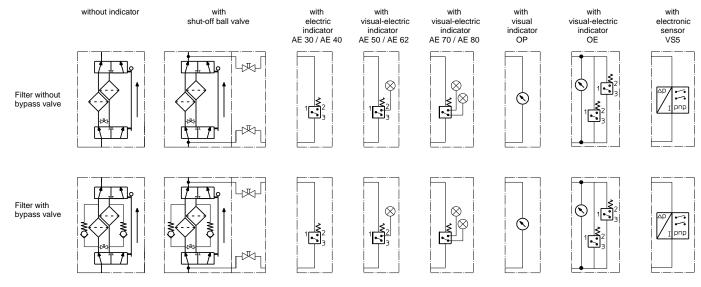
DWF VG				G			API				
	3VG	6VG	10VG	16VG	25VG	10G	25G	40G	80G	10 API	25 API
6005	0.048	0.033	0.021	0.019	0.013	0.0018	0.0013	0.0012	0.0008	0.012	0.005

∆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	artikle-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 ½	304	678		
6	4	screw plug	BSPP 1	305303			
7	1	clogging indicator, visual-electric	AE	see shee	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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