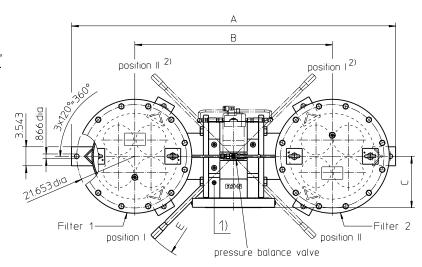
Series DWFA 6005 CLASS 150

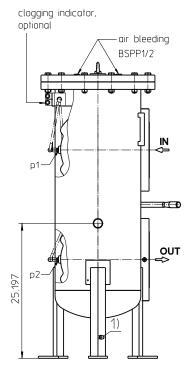
1) Connection for the potential equalization, only for application in the explosive area.

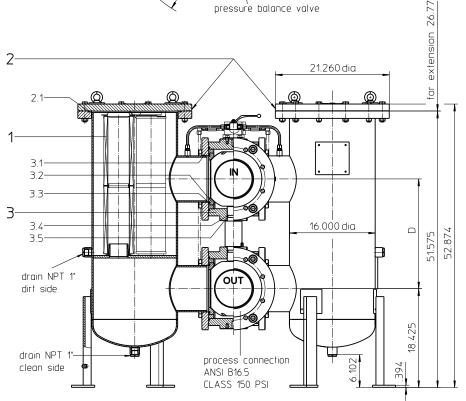
Switch lever standard in the front.

 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







p1/p2 = mini meausring connection BSPP1/4

Dimensions:

process-	Α	В	С	D	E	weight	volume tank
connection							
6" (DN150)	58.10	34.48	8.15	17.32	16.92	1473 lbs.	2x 36 Gal.
8" (DN200)	60.72	36.85	9.60	20.47	21.02	1686 lbs.	2x 36 Gal.

Powering Business Worldwide

Dimensions: inches

Designs and performance values are subject to change.

Pressure Filter, changeover Series DWFA 6005 CLASS 150 PSI

Description:

Pressure filter, change over of the series DWFA 6005 have a working pressure up to 145 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 dirtretaining 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)

DWFA. 6005. 10VG. 10. E. P. -. FA11. E. -. IS21. 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11

KH. OE 12 | 13 |

1 series:

DWFA = double welded filter, according to ASME-code

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:

= Δp 145 PSI 10

5 filter element design:

= without by-pass

= with by-pass valve ∆p 29 PSI

6 sealing material:

= Nitrile (NBR) = 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

= flange ANSI CLASS 150 PSI,

sealing surface rough grind < 640 μin

9 process connection size:

D

= 8" (standard)

10 filter housing specification:

= standard

IS12 = internal parts of change over armature stainless steel,

see sheet-no. 41028

11 | specification pressure vessel:

IS21 = ASME VIII Div.1 with U-stamp, see sheet-no. 43415

IS23 = ASME VIII Div.1 without U-stamp, see sheet-no. 55218

12 shut-off:

= without

KΗ = with shut-off ball valve

13 clogging indicator or clogging sensor:

ΑE

visual-electric, see sheet-no. 1609

OP visual, see sheet-no. 1614

OE visual-electric, see sheet-no. 1614

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. 1501.10VG. 10. E. P. -3 4 5 6 7

series:

= filter element according to company standard 01E

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: 145 PSI

test pressure acc. to ASME VIII Div. 1:
test pressure acc. to API 614, Chapter 1:
standard process connection:
1,3 x operating pressure = 189 PSI
1,5 x operating pressure = 218 PSI
flange ANSI B16.5 CLASS 150 PSI

housing material: carbon steel (ASTM) material switching housing: EN-GJS-400-18-LT

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

installation position: vertical drain connections: NPT 1" bleeder connections: BSPP ½ measure connections: BSPP ½"

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

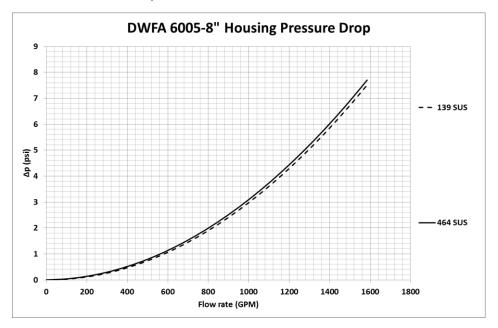
Material gradient coefficients (MSK) for filter elements

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.

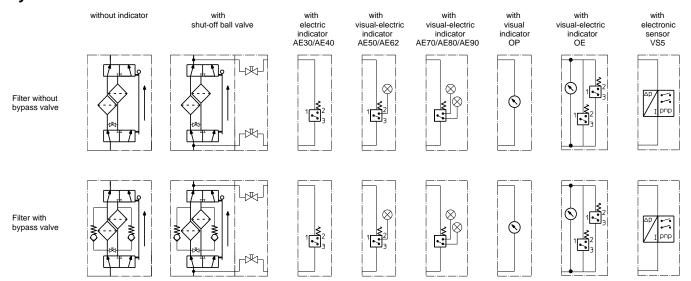
DWFA	VG				G				API		
	3VG	6VG	10VG	16VG	25VG	10G	25G	40G	80G	10 API	25 API
6005	0.084	0.033	0.021	0.019	0.013	0.0018	0.0013	0.0012	0.0008	0.012	0.005

$\Delta p = f(Q) - characteristics according to ISO 3968$

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	e-no.
1	8	filter element	01E.1501		
2	1	gasket kit for filter housing:			
2.1	2	O-ring	429 x 6	308659 (NBR)	310273 (FPM)
3	1	gasket kit of switching over UKK150 consisting of:	6" (DN150)	355320 (NBR)	
3.1	4	O-ring	234 x 5,33		
3.2	4	O-ring	185 x 6		
3.3	4	gasket	DN150		
3.4	2	O-ring	55 x 3,5		
3.5	2	support ring	61,5 x 56,2 x 5		
3	1	gasket kit of switching over UKK200 consisting of:	8" (DN200)	355381 (NBR)	354701 (FPM)
3.1	4	O-ring	290 x 5		
3.2	4	O-ring	220 x 6		
3.3	4	gasket	DN200		
3.4	2	O-ring	53 x 3,55		
3.5	2	support ring	60 x 5,9 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 ISO 16889	Evaluation of pressure drop versus flow characteristics Multi-pass method for evaluating filtration performance
130 10009	wulli-pass method for evaluating illitation performance

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