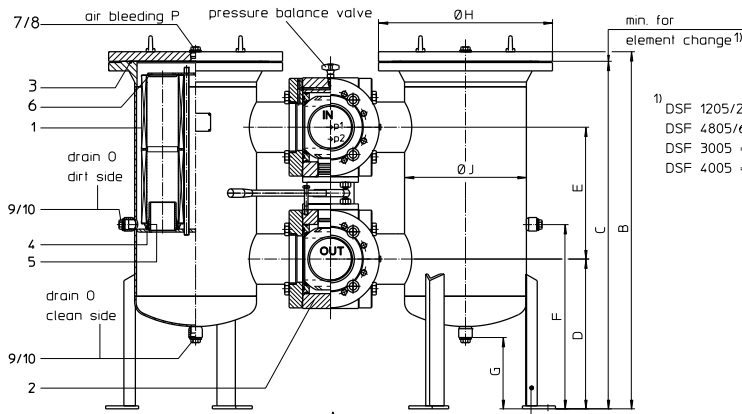


**PRESSURE FILTER, change-over ball valve**  
**Series DSF 1205-10005 DN 50-200 PN 16**



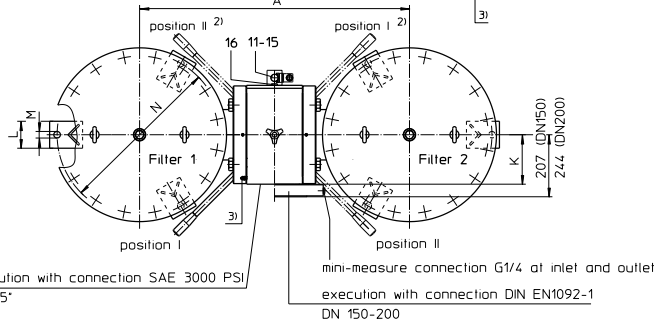
- <sup>1)</sup> DSF 1205/2005/2405/3605 = 520mm
- DSF 4805/6005/10005 = 520mm
- DSF 3005 = 765mm
- DSF 4005 = 1020mm

Position I: filter 1 in operation  
Position II: filter 2 in operation  
Switch lever standard in the front

<sup>2)</sup> On request: Switch lever backside opposite to inlet and outlet.

Please specify on order !

<sup>3)</sup> connection for the potential equalization at inlet and outlet resp. filter housing, only for application in the explosive area



execution with connection SAE 3000 PSI  
2" - 5"

execution with connection DIN EN1092-1  
DN 150-200

**3. Dimensions:**

type	DN	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	weight kg	volume tank
DSF 1205	50	610	1009	985	365	175	460	185	340	219	74	70	18	330	G1	G 1/2	200	2x 26 l
	65	560	1009	985	365	270	460				90							2x 26 l
	80	585	1009	985	375	290	460				100							2x 26 l
	100	620	1024	1000	390	365	475				127							2x 26 l
DSF 2005	65	630	1011	985	380	270	460	185	405	273	90	70	18	380	G1	G1	280	2x 39 l
	80	640	1011	985	380	290	460				100							2x 39 l
	100	670	1046	1020	400	365	495				127							2x 41 l
	125	730	1086	1060	420	395	535				142							2x 43 l
DSF 2405	65	680	1053	1025	390	270	480	185	460	324	90	70	18	450	G1	G1	355	2x 58 l
	80	700	1053	1025	400	290	480				100							2x 58 l
	100	730	1078	1050	410	365	505				127							2x 60 l
	125	770	1113	1085	425	395	540				142							2x 63 l
DSF 3005	65	630	1258	1232	380	270	460	185	405	273	90	70	18	380	G1	G 1/2	310	2x 52 l
	80	640	1258	1232	380	290	460				100							2x 52 l
	100	670	1293	1267	400	365	495				127							2x 54 l
	125	730	1333	1307	420	395	535				142							2x 56 l
DSF 3605	65	630	1333	1307	420	440	535	235	580	406	175	90	22	550	G1	G1	580	2x 57 l
	80	780	1152	1120	480	290	575				100							2x 97 l
	100	810	1152	1120	480	365	575				127							2x 97 l
	125	870	1192	1160	500	395	615				142							2x 103 l
DSF 4005	65	630	1506	1480	380	270	460	185	405	273	90	70	18	380	G1	G1	340	2x 65 l
	80	640	1506	1480	380	290	460				100							2x 65 l
	100	670	1541	1515	400	365	495				127							2x 67 l
	125	730	1581	1555	420	395	535				142							2x 69 l
DSF 4805	100	910	1216	1180	520	365	635	235	715	508	127	90	22	650	G1	G1	800	2x 165 l
	125	970	1216	1180	520	395	635				142							2x 165 l
	150	1040	1236	1200	530	440	655				-							2x 171 l
	200	1090	1376	1340	560	520	795				-							2x 197 l
DSF 10005	125	1170	1350	1310	630	395	765	285	910	711	142	120	22	900	G1 1/2	G1 1/2	950	2x 358 l
	150	1250	1350	1310	630	440	765				-							2x 358 l
	200	1290	1490	1450	660	520	905				-							2x 408 l

**1. Type index:**

**1.1. Complete filter: (ordering example)**

**DSF. 3605. 10VG. 10. E. P. -. FS. B. -. AE**

1	2	3	4	5	6	7	8	9	10	11
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- 1 series:**  
DSF = duplex filter
- 2 nominal size:** 1205, 2005, 2405, 3005, 3605, 4005, 4805, 6005, 10005
- 3 filter-material and filter- fineness:**  
80 G = 80 µm, 40 G = 40 µm, 25 G = 25 µm, 10 G = 10 µm stainless steel wire mesh,  
25 VG = 20 µm<sup>(e)</sup>, 16 VG = 15 µm<sup>(e)</sup>, 10 VG = 10 µm<sup>(e)</sup>, 6 VG = 7 µm<sup>(e)</sup>, 3 VG = 5 µm<sup>(e)</sup> glass fibre  
25 API = 20 µm, 10 API = 10 µm glass fibre according to API  
10 P = 10 µm paper
- 4 resistance of pressure difference for filter element:**  
10 = Δp 10 bar
- 5 filter element design:**  
E = without by-pass valve S = with by-pass valve Δp 2,0 bar
- 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:**  
FS = flange connection SAE 3000 PSI, only for DN 50-125  
FD1 = flange connection DIN EN 1092-1, design B1 (only for DN 150-200)  
FD2 = flange connection DIN EN 1092-1, design B2 (only for DN 150-200)
- 9 process connection size:**

filter-nominal size	DSF 1205	DSF 2005	DSF 2405	DSF 3005	DSF 3605
connection size	8-9-A-B	9-A-B-C	9-A-B-C	9-A-B-C-D	A-B-C-D
filter-nominal size	DSF 4005	DSF 4805	DSF 6005	DSF 10005	
connection size	9-A-B-C	B-C-D-E	B-C-D-E	C-D-E	

8 = DN 50 9 = DN 65 A = DN 80 B = DN 100 C = DN 125 D = DN 150 E = DN 200

**10 filter housing specification:**

- = standard
- IS06 = for HFC application, see sheet-no. 31605

**11 clogging indicator or clogging sensor:**

- = without
- OP = visual, see sheet-no. 1628
- OE = visual-electric, see sheet-no. 1628
- AE = visual-electric, see sheet-no. 1609
- VS5 = electronic, see sheet-no. 1641

**1.2. Filter element: (ordering example)**

**01E. 1201. 10VG. 10. E. P. -**

1	2	3	4	5	6	7
---	---	---	---	---	---	---

- 1 series:**  
01E. = filter element according to company standard
- 2 Nenngröße:** 1201, 2001, 3001, 4001
- 3 - 7** see type index-complete filter

**2. Accessories:**

- measure -and bleeder-connections, see sheet-no. 1650
- evacuation- and bleeder-connections, see sheet-no. 1651
- shut-off valve, see sheet-no. 1655
- SAE-counter flanges, see sheet-no. 1652
- adaptor for flange DIN EN1092-1 (DN 50-125), see sheet-no. 1657
- lifting mechanism, see sheet-no. 1661

Changes of measures and design are subject to alteration!



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fax +49 - (0)6205 - 2094-40 url [www.eaton.com/filtration](http://www.eaton.com/filtration)

## 4. Spare parts:

### 4.1. Depending on different series:

item	designation	qty.	dimension and article-no. DSF 1205	dimension and article-no. DSF 2005	qty.	dimension and article-no. DSF 2405	qty.	dimension and article-no. DSF 3005	qty.	dimension and article-no. DSF 3605	qty.	dimension and article-no. DSF 4005	qty.	dimension and article-no. DSF 4805	qty.	dimension and article-no. DSF 6005	qty.	dimension and article-no. DSF 10005
1	filter element	2	01E.1201	01E.2001	4	01E.1201	2	01E.3001	6	01E.1201	2	01E.4001	8	01E.1201	6	01E.2001	10	01E.2001
2	change over UKK	1	DN 50-100	DN 65-125	1	DN 65-125	1	DN 65-150	1	DN 80-150	1	DN 65-125	1	DN 100-200	1	DN 100-200	1	DN 125-200
3	O-ring	2	225 x 5 308652 (NBR) 311473 (FPM)	275 x 5 307414 (NBR) 310288 (FPM)	2	330 x 5 303080 (NBR) 310275 (FPM)	2	275 x 5 307414 (NBR) 310288 (FPM)	2	429 x 6 308659 (NBR) 310273 (FPM)	2	275 x 5 307414 (NBR) 310288 (FPM)	2	516 x 6 301962 (NBR) 311474 (FPM)	2	516 x 6 301962 (NBR) 311474 (FPM)	2	722 x 8 308145 (NBR) 311805 (FPM)
4	O-ring	2	85 x 10 304386 (NBR) 304541 (FPM)	125 x 10 304388 (NBR) 306006 (FPM)	4	85 x 10 304386 (NBR) 304541 (FPM)	2	125 x 10 304388 (NBR) 306006 (FPM)	6	85 x 10 304386 (NBR) 304541 (FPM)	2	125 x 10 304388 (NBR) 306006 (FPM)	8	85 x 10 304386 (NBR) 304541 (FPM)	6	125 x 10 304388 (NBR) 306006 (FPM)	10	125 x 10 304388 (NBR) 306006 (FPM)
5	O-ring	2	93 x 5 307588 (NBR) 307589 (FPM)	135 x 5 306016 (NBR) 307045 (FPM)	4	93 x 5 307588 (NBR) 307589 (FPM)	2	135 x 5 306016 (NBR) 307045 (FPM)	6	93 x 5 307588 (NBR) 307589 (FPM)	2	135 x 5 306016 (NBR) 307045 (FPM)	8	93 x 5 307588 (NBR) 307589 (FPM)	6	135 x 5 306016 (NBR) 307045 (FPM)	10	135 x 5 306016 (NBR) 307045 (FPM)
6	spring	2	Da = 95 304414	Da = 95 304414	2	pressure plate	2	Da = 95 304414	2	pressure plate	2	Da = 95 304414	2	pressure plate	2	pressure plate	2	pressure plate
7	screw plug	2	G ½ 309730	G 1 309732	2	G1 309732											2	G 1 ½ 318556
8	gasket	2	A 22 x 27 305564	A 33 x 39 308257	2	A 33 x 39 308257											2	A 48 x 55 309764
9	screw plug	4	G1 309732		4	G1 309732											4	G 1 ½ 318556
10	gasket	4	A 33 x 39 308257		4	A 33 x 39 308257											4	A 48 x 55 309764

### 4.2. Depending on the series:

item	qty.	designation	dimension	article-no.
11	1	clogging indicator, visual	OP	see sheet-no. 1628
12	1	clogging indicator, visual-electrical	OE	see sheet-no. 1628
13	1	clogging indicator, visual-electrical	AE	see sheet-no. 1609
14	1	clogging sensor, electronical	VSS	see sheet-no. 1641
15	2	O-ring	14 x 2	304342 (NBR) 304722 (FPM)
16	2	screw plug	G ¼	305003

item 16 execution only without clogging indicator or clogging sensor

## 5. Description:

Duplex filters of the series DSF 1205-10005 are suitable for a working pressure up to 16 bar.

Pressure peaks can be absorbed with a sufficient margin of safety.

Change-over 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 suction filter, pressure filter or return-line filter.

The filter element consist 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 the inside.

For cleaning (see special leaflet 21070-4 and 34448-4) the mesh element respectively to change the glass fibre element remove the cover and take out the element.

Filter finer than 40 µm should use throw-away elements made of paper or glass fibre. Filter elements as fine as 5 µm<sub>(c)</sub> are available; finer filter elements on request.

Eaton filter elements are known as elements with a 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.

## 6. Technical data:

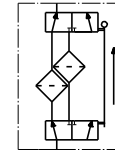
temperature range:	- 10°C to + 100°C
operating medium:	mineral oil, other media on request
max. operating pressure:	16 bar
test pressure:	23 bar
connection system:	SAE-flange connection 3000 PSI or flange connection DIN EN1092-1, 16 bar
housing material:	C-steel
sealing material:	Nitrile (NBR) or Viton (FPM), other materials on request
installation position:	vertical
mini-measuring connection:	G ¼

Classified under the Pressure Equipment Directive 2014/68/EU for mineral oil (fluid group 2), Article 4, Para. 3.

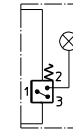
Classified under ATEX Directive 2014/34/EU according to specific application (see questionnaire sheet-no. 34279-4).

## 7. Symbols:

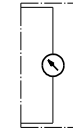
without indicator



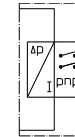
with visual -  
electric indicator  
AE 50 and AE 62



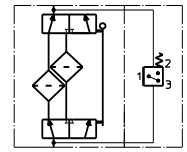
with visual  
indicator  
OP



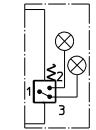
with electronic  
clogging sensor  
VS5



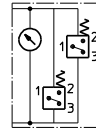
with electric indicator  
AE 30 and AE 40



with visual -  
electric indicator  
AE 70 and AE 80



with visual -  
electric indicator  
OE



## 8. Pressure drop flow curves:

Precise flow rates see 'Interactive Product Specifier', respectively Δp-curves; depending on filter fineness and viscosity.

## 9. 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