

SERVICE

HDF2005/7-2F-2H-2S

HDF2005/7-1F-1H

Thank you for choosing a Hydrotech filter.

It is a trustworthy machine that will run for a long time with minimum care and service. Indeed, any mechanical equipment requires annual maintenance in order to operate efficiently and with as little down time as possible. This is also the case with your Hydrotech Drumfilter HDF2000, 1F, 2F or 2S.

On the next pages, you will find recommendations for maintenance, parts to change and drawings.

If you don't have the possibility to do the maintenance yourself, Hydrotech will be pleased to send you a service offer or recommend a reliable technician that can assist you.

Apart from the periodic maintenance mentioned in the **Operation & Maintenance manual** we recommend a large service every fifth year where at least all parts in the **5 year service kit** are replaced.

To order spare parts or a service from Hydrotech and also to get the latest updated prices, please contact Hydrotech at services@hydrotech.se.



Veolia Water Technologies AB

Hydrotech



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SERVICE

HDF2005/7-2F-2H-2S

HDF2005/7-1F-1H

5 year service kit

Art. N°	N° on drawing	Description	Qty	Versions
424040	4736-A pos.2	Key steel 22x14x45 mm	1	
425734	4736-A pos.8	Spacer Ø118/81x6 mm	2	
425520	4736-A pos.10	Slide bearing Ø80	2	
1010967	On the piping	Manometer 0-16 bar 1/4" SI	1	
See Table 2	0678-C pos.5	Rubber lip, Solids trough	1	Not for 2S
1010167		Rubber lip seal HDF2005-7, long version	1	
425540	2317-E pos.4	Slide bearing Ø35	2	
1001387	2317-E pos.5	Slide bearing Ø35 (L=17 mm)	2	
425720	2317-E pos.9	Spacer 70/35.2x3.0 mm	4	
1002089	2317-E pos.11	Support wheel type 14	4	
425710	2317-E pos.18	Spacer 60/36x3 mm	2	
420380	4748-A pos.7	Chain wheel 1 1/4" 10, Ø45H7	1	
1001271	4748-A pos.8	Chainwheel Z=32 1 1/4" for cone	1	
1001275	4736-A pos.13	Cone to chain wheel 3020-Ø80	1	
420140	4748-A pos.10	Chain lock 1 1/4"	1	

Table 2

Filter type	Qty for Art. N° Rubber lip for solids tray
HDF2005	1005259
HDF2006	1005260
HDF2007	1005261

Parts valid only for 1F/1H tank version

Art. N°	N° on drawing	Description	Qty
352310	4759-A pos.10	Grease nipple, M8x1mm	1
1006285	4748-A pos.9	Chain 1 1/4" Rex simplex	1
1001326	4759-A pos.16	Shaft sealing	1

Parts valid only for 2F/2H/2S frame version

Art. N°	N° on drawing	Description	Qty
1006091	4736-A pos.9	Shaft sealing radial 80x100x10	2
1006286	4748-A pos.9	Chain 1 1/4" Rex simplex	1

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HDF2005/7-2F-2H-2S

HDF2005/7-1F-1H

Strategic spare parts

Art. N°	N° on drawing	Qty
	Nozzles	5/revolution
	Panels	5/revolution
278040	Cartridge for strainer	1
1001268	4736-A pos.1&12 Shaft and bearing house	1

Critical spare parts

Art. N°	N° on drawing	Description	Qty
	4748-A pos.11	Drive unit	1
		Backwash pump	1

Definitions:

5 year service kit:

Parts to be changed after 5 years of operation

Strategic spare parts:

Parts with short lead time (always on Hydrotech stock) which are vital for the operation of the unit.

Critical spare parts:

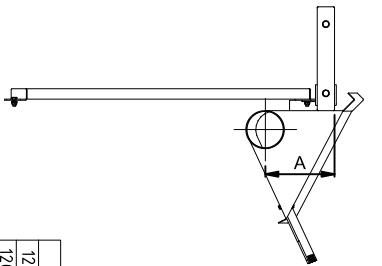
Parts with long lead time which are vital for the operation of the unit, contact Hydrotech for precise delivery time.

Veolia Water Technologies AB

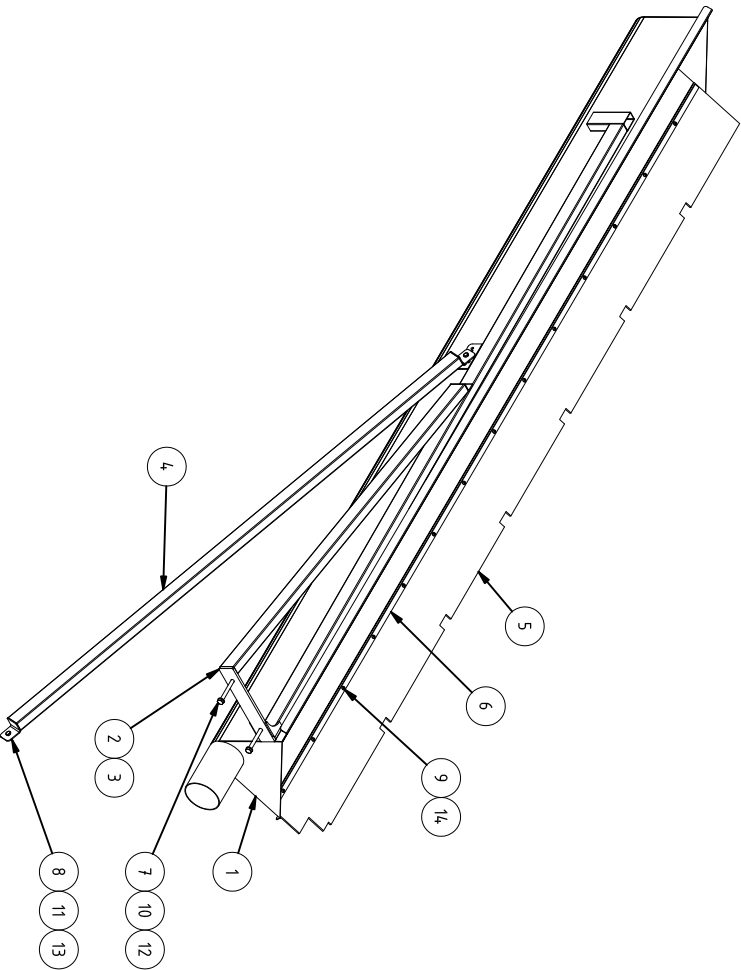
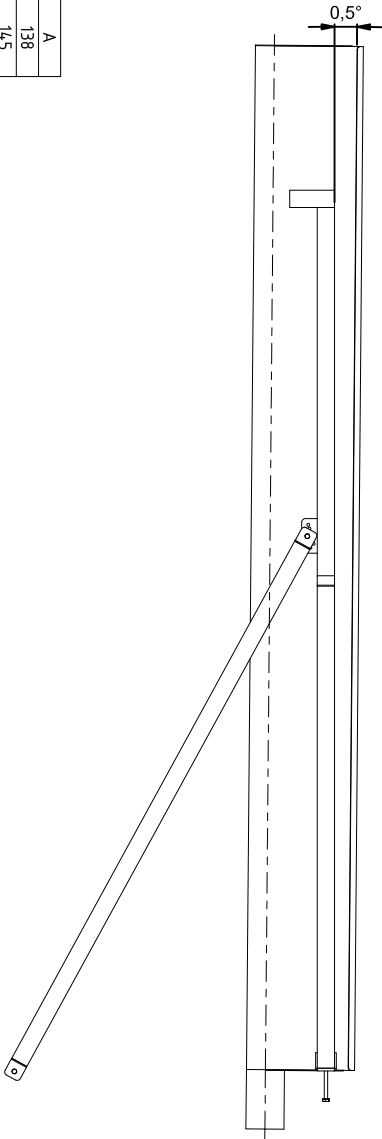
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Type	A
1201-02 1,2,3H	138
1203-04 1,2,3H	14,5
1601-07 1H	180
1601-07 2,3H	200



Type	B	C	D
12,1601	0	1	2
12,1602	0	1	4
12,1603	1	0	6
12,1604	1	0	8
1605	1	0	10
1606	1	0	12
1607	1	0	14

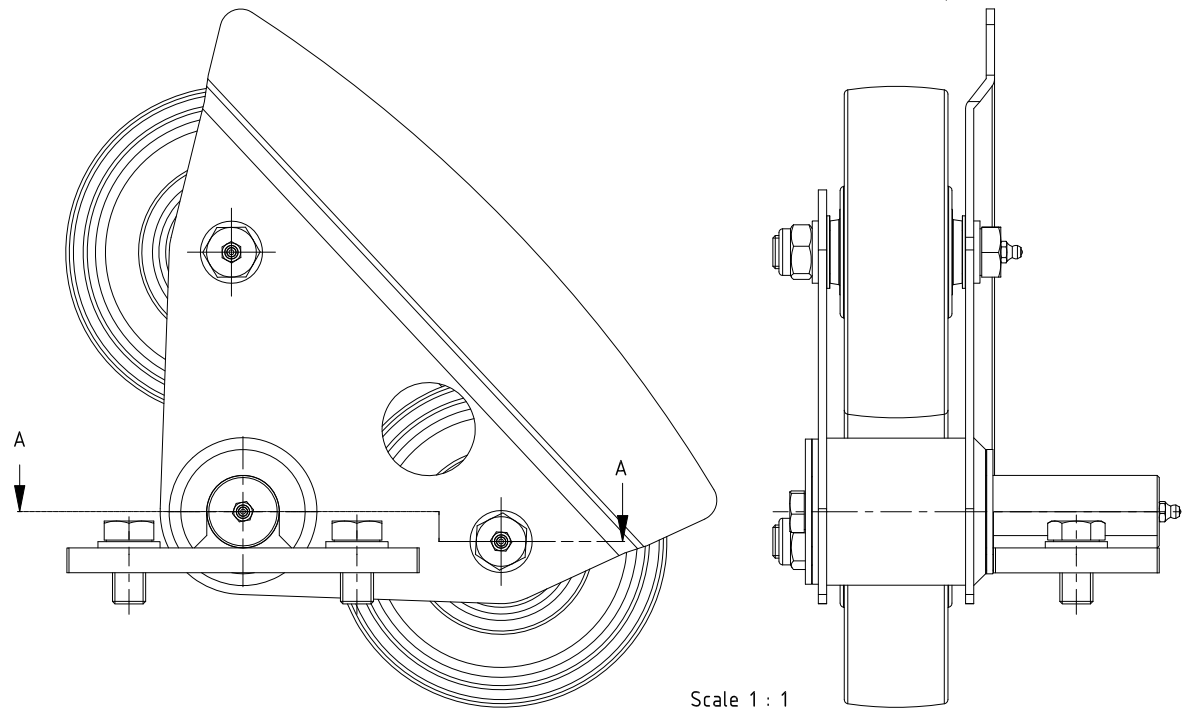
14.	D	Nut locking	A4	M6NM M6	Art. no. 350310
13.	2	Nut locking	A4	M6NM M8	Art. no. 350320
12.	2	Nut locking	A4	M6NM M10	Art. no. 350330
11.	2	Washer	A4	8,4x16x1,6	Art. no. 350540
10.	4	Washer	A4	10,5x20x2	Art. no. 350550
9.	D	Screw	A4	MRT M6x16H	Art. no. 1007487
8.	2	Screw	A4	M6S M8x20H	Art. no. 350870
7.	2	Screw	A4	M6S M10x100D	Art. no. 351017
6.	1	Bracket for Rubber Lip	AISI 316L	t = 4	Drw. no. 0670
5.	1	Rubber Lip for Solids Tray	Rubber	250 x 5	Drw. no. 5612
4.	1	Strut for Solids Tray			Drw. no. 0685
3.	C	Console for Solids Tray			Drw. no. 0676
2.	B	Console for Solids Tray			Drw. no. 0677
1.	1	Solids Tray			Drw. no. 0615

Pos no	Qty	Name	Material	Dimension	Remark
Designer	Drawn by	Projection method	Controlled by	Stand	Approved
	DLS			ISO 2768-m	
Scale			1 : 15		
Sheet size			A3		
Sheet			1 / 1		
Date					
Draw. no.			0678		
Edition			C		

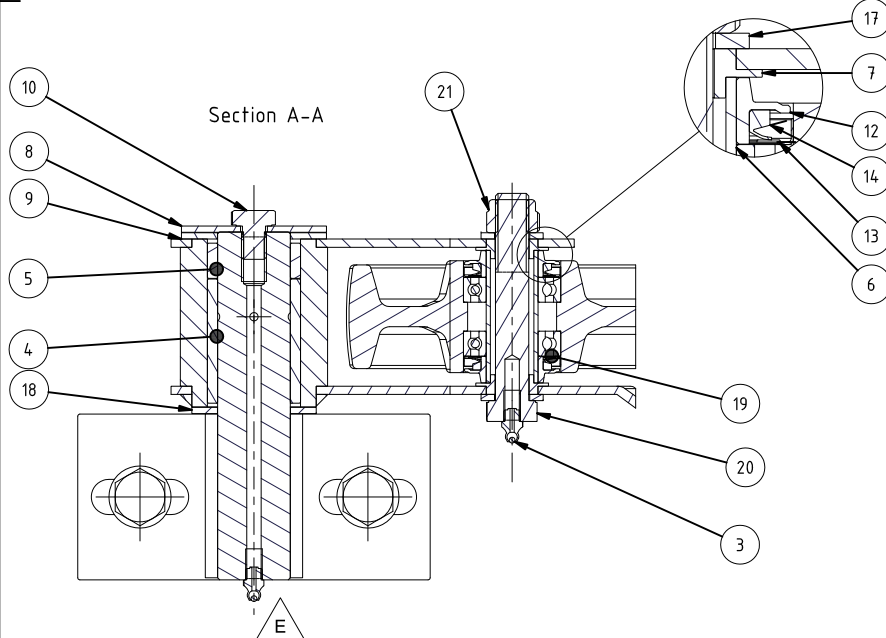
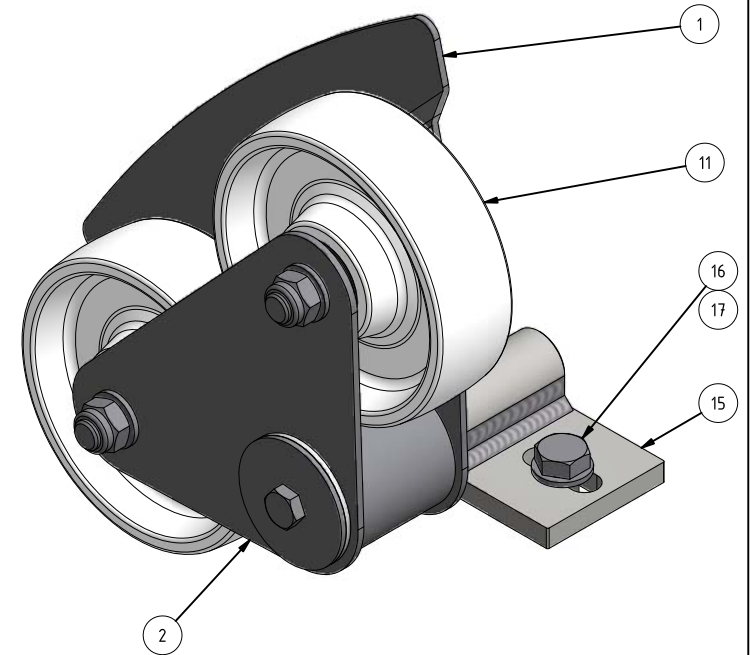
Ed.	Change and/or message no.	Rev date	Made by	C-m no.
C	Redrawn in Inventor. Updated.	2016-09-06	DLS	-

HYDROTECH

Assembly Solids Tray
Drumfilter HDF1201-04
Drumfilter HDF1601-07



Scale 1 : 1



21	2	Nut locking	A4	M6NM M16	Art. no. 350350
20	2	Bolt for grease nipple	A4		Drw. no. 4571
19	4	Ball bearing	AISI 304	6005	Colson (Art.no. 1001606)
18	1	Spacer	Acetal	Ø 60x35,2x3	Drw. no. 1091
17	6	Washer	A4	RB 17x30x3	Art.no. 350570
16	2	Bolt	A4	M6S M16x30	Art.no. 351630
15	1	Bearing bracket			Drw. no. 1089 / Drw. no. 4813 (for 1600-1G)
14	4	Radial sealing			Colson (Art.no. 1001606)
13	4	Support for radial sealing	AISI 316L		Colson (Art.no. 1001606)
12	4	Support for radial sealing	Plastic, Black		Colson (Art.no. 1001606)
11	2	Support wheel	Plastic, White	160 x 50	Colson (Art.no. 1001606)
10	1	Bolt	A4	M6S M12x16	Art.no. 351023
9	1	Spacer	Acetal	Ø 70x35,2x3	Drw. no. 1091
8	1	Washer		Ø 70x13x3	Drw. no. 1091
7	4	Shaft end			Drw. no. 2282
6	2	Shaft tube			Drw. no. 2282
5	1	Slide bearing Wolf	ZX100	Ø 45/35 L=17	Art.no. 1001387
4	1	Slide bearing Wolf	ZX100	Ø 45/35 L=60	Art.no. 425540
3	3	Grease Nipple	AISI 316L	M8x1	Art.no. 352310
2	1	Boogie support gable			Drw. no. 1092
1	1	Boogie gable with bearing house		Left + Right	Drw. no. 4583

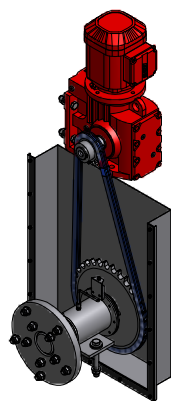
Part no.	Qty	Name	Material	Mod.-nr Blank Dimension Mass	Remark
Designer	Drawn by	Copy	Controlled by	Stand.	Approved
	EmS			ISO 2768-m	
Boogie assembly (type 14) (Right shown) Drumfilter HDF 1600-1G 1605-07, 2005-07					Replaces
					Replaced by
					Date
					110201
					Draw. no.
					2317 Edition E

E	Central greasing for bearing br.	160120	FT	
Ed.	Change and/or message no.	Date	Made by	c-m no.

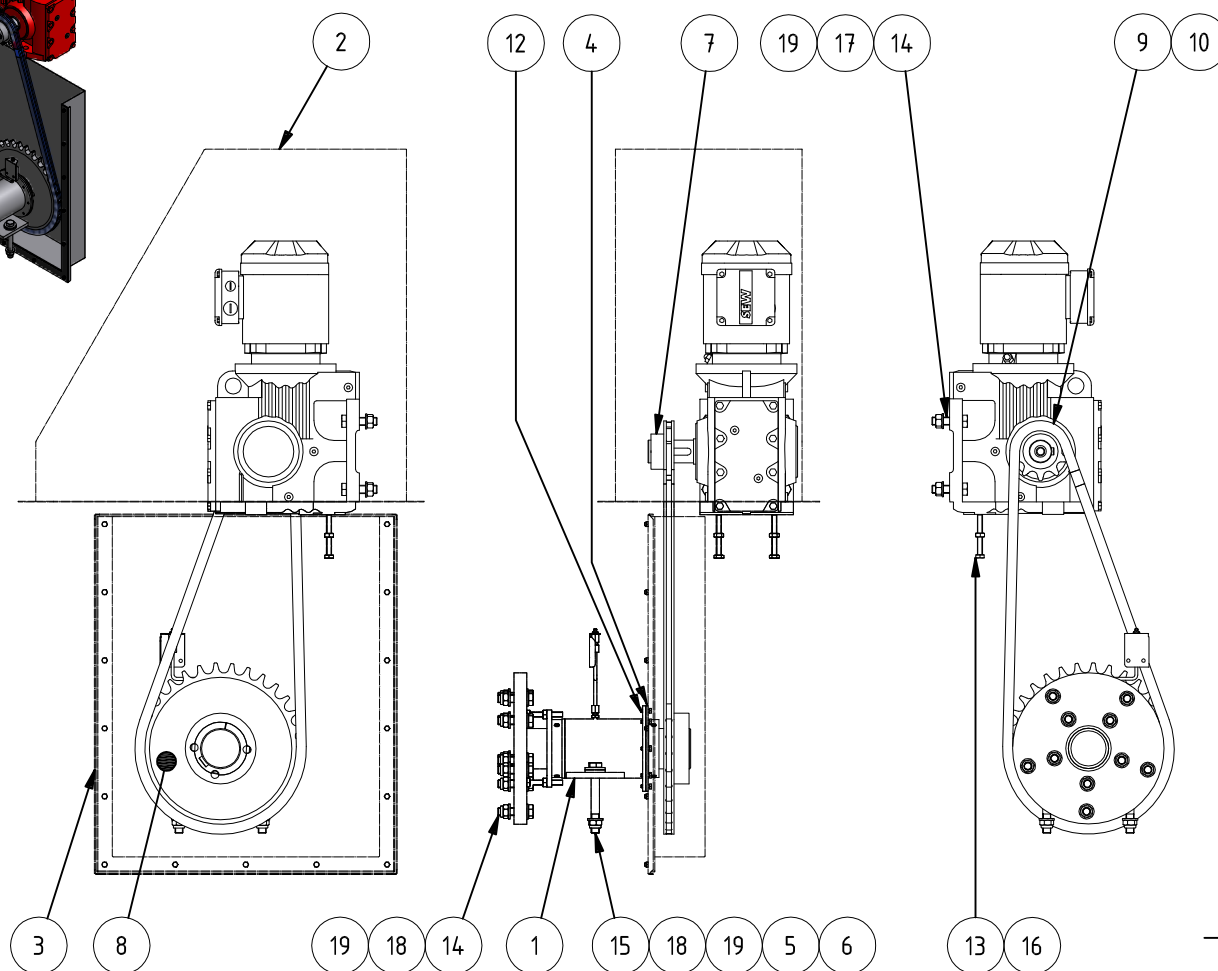
Ed.	Change and/or message no.	Date	Made by	c-m no.

13	1	Cone for chainwheel		3020-Ø80	Art. no. 1001275
12	1	Bearing house			Drw. no. 1140
11	1	Grease fittings			Drw. no. 2408
10	2	Slide bearing Wolf		Ø 90/80 L=50	Art.no. 425520
9	2	Shaft sealing	Rubber	80x100x10	Art. no. 1006091
8	2	Axila bearing			Drw. no. 0580
7	2	Retaining collar	AISI 316L		Drw. no. 0579
6	6	Set screw	A4	MS6SS M10x20	Art. no. 352160
5	1	Axial retaining washer	AISI 316L	Ø80	Drw. no. 3498
4	2	Nut	A4	M6M M10	Art. no. 350130
3	2	Bolt	A4	M6S M10x80H	Modified to correct length
2	1	Key steel		22x14x45	Art. no. 424040
1	1	Center shaft			Drw. no. 0573

Part no.	Qty	Name	Material	Mod.-nr Blank Dimension Mass	Remark
Designer EmS	Drawn by EmS	Copy	Controlled by	Stand. ISO 2768-m	Approved
			Scale 1:5	Replaces	Replaced by
HYDROTECH Center shaft Bearing Exploded view Drumfilter HDF 2005-07 2,3					Date 20110816
					Draw. no. 4736 Edition A



S77DRE90M4 M4A
on mirrored filters
Art. no. 1014653



19	26	Washer	A4	RB 17x30x3	Art. no. 350570
18	12	Nut locking	A4	M6NM M16	Art. no. 350350
17	4	Nut	A4	M6M M16	Art. no. 350150
16	2	Nut	A4	M6M M10	Art. no. 350130
15	2	Bolt (Bumax)	A4	M6S M16x130	Art. no. 1014557
14	14	Bolt	A4	M6S M16x60	Art. no. 351660
13	2	Bolt	A4	M6S M10 x 80	Art. no. 351010
12	8	Bolt	A4	M6S M6x16	Art. no. 350780
11	1	Motor S77DRE90M4 M4B		3x400V, 50Hz	Art. no. 1014590
10	1	Chain lock		1 1/4"	Art. no. 420140
9	1	Drive chain		1 1/4" L=1950	Art. no. 1006286
8	1	Chain wheel		Z=32	Art. no. 1001271
7	1	Chain wheel		Z=10	Art. no. 420380
6	2	Washer		Ø 16,5x40x4	Drw. no. 4675
5	2	Washer		Ø 17x40x5	Drw. no. 4677
4	1	Seal			Drw. no. 2307
3	1	Chain trough			Drw. no. 1186
2	1	Motor cover			Drw. no. 1340
1	1	Center shaft and bearing			Drw. no. 4736

Part no.	Qty	Name			Material	Mod.-nr Blank Dimension Mass	Remark	
Designer EmS	Drawn by EmS	Copy	Controlled by	Stand. ISO 2768-m	Approved	Scale 1 : 15	Replaces	Replaced by
HYDROTECH			Drive assembly				Date 20110831	
			Drumfilter HDF2005-07 2,3 & 1A				Draw. no. 4748 Edition A	

Ed.

Change and/or message no.

Date

Made by c-m no.

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General conditions and use for this drawing is in accordance to ORGALIME S2000

Ed.	Change and/or message no.			Date	Made by	c-m no.		
17	1	Cone for chainwheel			3020-Ø80	Art. no. 1001275		
16	1	Shaft sealing		Acetal		Drw. no. 0638		
15	16	Bolt		A4	M6S M6x12	Art. no. 350770		
14	16	Washer		A4	RB 6,4x12x1,6	Art. no. 350530		
13	1	Covering plate		AISI304/316L		Drw. no. 0645		
12	1	V-ring		Rubber	V-80A	Art. no. 1004201		
11	1	Bearing housea				Drw. no. 0576		
10	1	Grease fittings				Drw. no. 2408		
9	2	Slide bearing Wolf			Ø 90/80 L=50	Art.no. 425520		
8	2	Axila bearing		Polyethylen		Drw. no. 0580		
7	2	Retaining ring Ø80		AISI304/316L		Draw. No. 579		
6	6	Bolt		A4	MS6SS M10x20	Art. no. 352160		
5	1	Axial retaining washer		AISI 316L	Ø80	Drw. no. 3498		
4	2	Nut		A4	M6M M10	Art. no. 350130		
3	2	Bolt		A4	M6S M10x80H	Modified to corect length		
2	1	Key steel			22x14x45	Art. no. 424040		
1	1	Center shaft			Type1	Drw. no. 0573		
Part no.	Qty	Name		Material	Mod.-nr Blank Dimension Mass	Remark		
Designer EmS	Drawn by EmS	Copy	Controlled by	Stand. ISO 2768-m	Approved	Scale	Replaces	Replaced by
HYDROTECH			Center shaft bearing Exploded view Drumfilter HDF 2005-07 1H/F				Date 20110913	
							Draw. no. 4759 Edition A	

SERVICE

HDF2005/7-2F-2H-2S

HDF2005/7-1F-1H

To be done on every visit

☐

Check backwash pressure

Remarks:

☐

Check panels for damage

Remarks:

☐

Visually inspect the inside of the unit

Remarks:

☐

Check the nozzles for clogging

Remarks:

☐

Lubricate all grease points of the unit

Remarks:

☐

Check drive chain tension

Remarks:

☐

Visually inspect the outside of the unit, clean if needed

Remarks:

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SERVICE

HDF2005/7-2F-2H-2S

HDF2005/7-1F-1H

To be done on yearly visit

☐

Check oil condition in drive unit according to separate manual

Remarks:

☐

Check drum bearings for ware

Remarks:

☐

Check shaft gaskets for ware

Remarks:

☐

Check inlet gasket for ware

Remarks:

☐

Check support wheels for ware

Remarks:

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SERVICE

HDF2005/7-2F-2H-2S

HDF2005/7-1F-1H

To be done every five years

Replace the parts from service kit

OK

☐	Key steel DIN6885-1 A14x9x80 +C
☐	Spacer Ø118/81x6 mm
☐	Slide bearing Ø80
☐	Manometer 0-16 bar 1/4" SI
☐	Rubber lip, Solids trough
☐	Rubber lip seal HDF2005-7
☐	Slide bearing Ø35
☐	Slide bearing Ø35 (L=17 mm)
☐	Spacer 70/35.2x3.0 mm
☐	Support wheel type 14
☐	Spacer 60/36x3 mm
☐	Chain wheel 1 1/4" 10, Ø45H7
☐	Chainwheel Z=32 1 1/4" for cone
☐	Cone to chain wheel 3020-Ø80
☐	Chain lock 1 1/4"
☐	Chain 1 1/4" Rex simplex
☐	Grease nipple, M8x1mm
☐	Shaft sealing radial 80x100x10

Check and if needed replace strategic and critical parts

OK

☐	Nozzles	Qty: _____
☐	Panels	Qty: _____
☐	Drive shaft	
☐	Drive unit	
☐	Backwash pump	

Remarks:

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