

SERVICE

HDF1601/4-1F-1H

HDF1601/4-2F-2S-2H

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 HDF1600, 1F/H, 2F/H 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



Veolia Water Technologies AB

Hydrotech



Mejselgatan 6, 235 32 Vellinge, Sweden
Phone +46 40 42 95 30, Fax. +46 40 42 95 31
mailbox@hydrotech.se
www.hydrotech.se

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HDF1601/4-1F-1H

HDF1601/4-2F-2S-2H

5 year service kit

Art. N°	N° on drawing	Description	Qty	Versions
424030	4719-A pos.2	Key steel 14x9x45 mm	1	
425730	4719-A pos.8	Spacer 90/50x5 mm	2	
352310	2408-A pos.6	Grease nipple, M8x1mm	3	
425510	4719-A pos.10	Slide bearing Ø50	2	
1006089	4719-A pos.9	Shaft sealing radial 50x62x7	2	
422260		Rubber seal 5x30,self-adhering or silicone	1,8	
1010967	On spray bar	Manometer 0-16 bar 1/4" SI	1	
1003764	See manual, page 32	Rubber lip seal HDF1601-7, long version	1	
See Table 2	0678-C pos.5	Rubber lip, Solids trough	1	Not for 2S
1003834	2390-D	Support wheel type 14	2	
420180	1664-B pos.3	Chain wheel 1" 10 Ø35, Z=10	1	
1001262	1664-B pos.2	Chain wheel Z=32 1" for cone	1	
1001274	Part of 1001262	Cone to chain wheel 3020-Ø50	1	
420120	1664-B pos.5	Chain lock 1"	1	

Table 2

Filter type	Qty for Art. N° Rubber lip for solids tray
HDF1601	1000468
HDF1602	1000469
HDF1603	1000470
HDF1604	1005258

Parts only valid for 1F tank version:

Art. N°	N° on drawing	Description	Qty
276125	On spray bar	Hose, 25 mm	0,6
1014371	On spray bar	Hose clamp Pa-Ri 49mm 2343	2
1006284	1664-B pos.4	Chain 1" Rex simplex	1

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HDF1601/4-1F-1H

HDF1601/4-2F-2S-2H

Parts only valid for 2F frame version:

Art. N°	N° on drawing	Description	Qty
1001985	1664-B pos.8	Sealing, 155 selg adherant or silicone	1
1014557	1664-B pos.14	Screw hex. Head M6S M16x130	2
350350	1664-B pos.19	Nut, nyloc, M6NM, M16, A4	2
350570	1664-B pos.22	Washer RB 17x30x3.0, A4	2
1014511	1664-B pos.23	Rubber washer Ø40/17x5	2
1014514	1664-B pos.24	Washer Ø16.5/40x4.0	2
424010	1664-B pos.6	Key steel 10x8x45 mm	1
1006282	1664-B pos.4	Chain 1" Rex simplex	1

Strategic spare parts

Art. N°	N° on drawing	Description	Qty
		Backwash nozzles	5 per segment
		Filter panels	4 per segment
278040		Cartridge for strainer	1
	1664-B pos.1 + 12	Drive shaft and bearing house	1

Critical spare parts

Art. N°	N° on drawing	Description	Qty
		Backwash pump	1
	1664-B pos.9	Drive gear/motor	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:

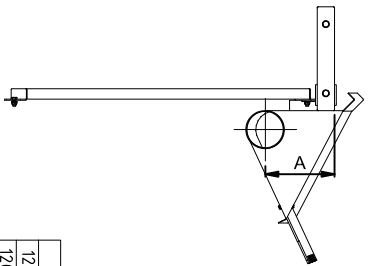
Parts with long lead time which are vital for the operation of the unit, contact Hydrotech for precise delivery time.

Veolia Water Technologies AB

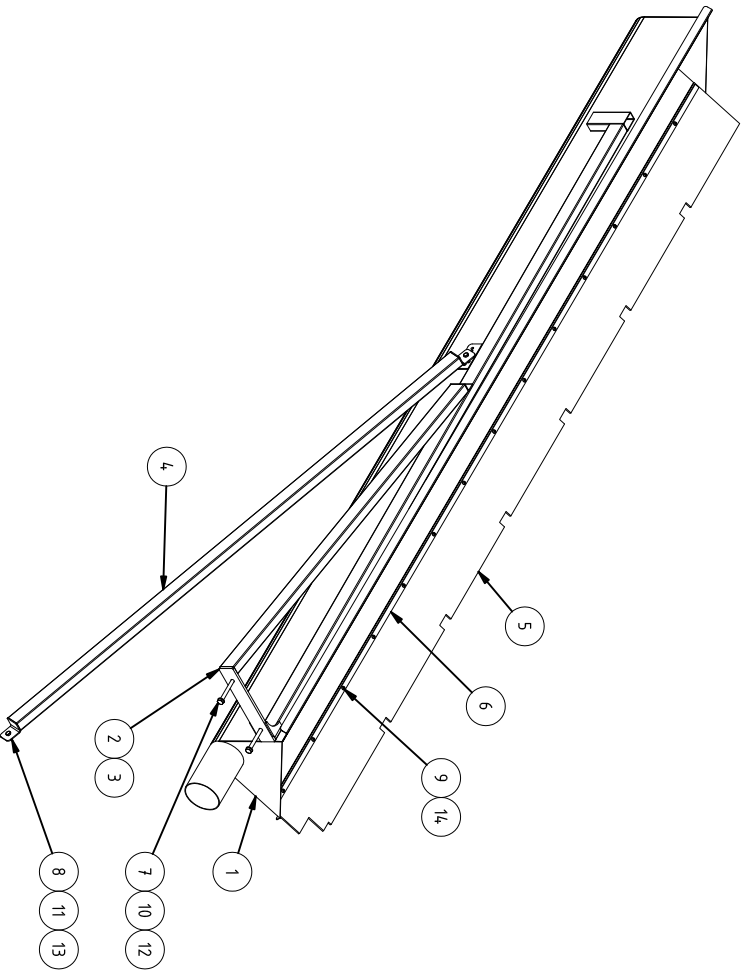
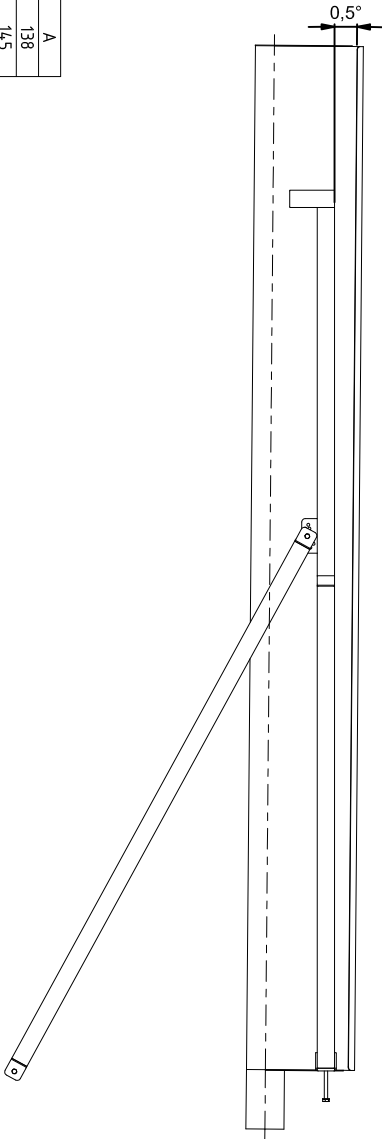
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Type	A
1201-02 1,2,3H	138
1203-04 1,2,3H	14,5
1601-07 1H	180
1601-07 2,3H	200



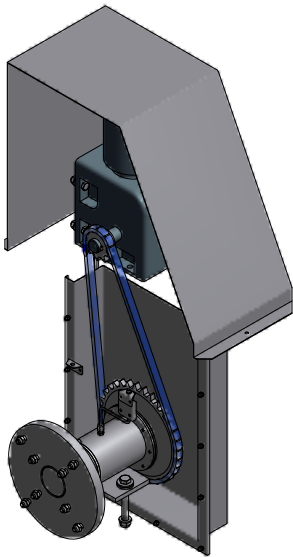
Type	B	C	D
12,1601	0	1	2
12,1602	0	1	4
12,1603	1	0	6
12,1604	1	0	8
1605	1	0	10
1606	1	0	12
1607	1	0	14

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

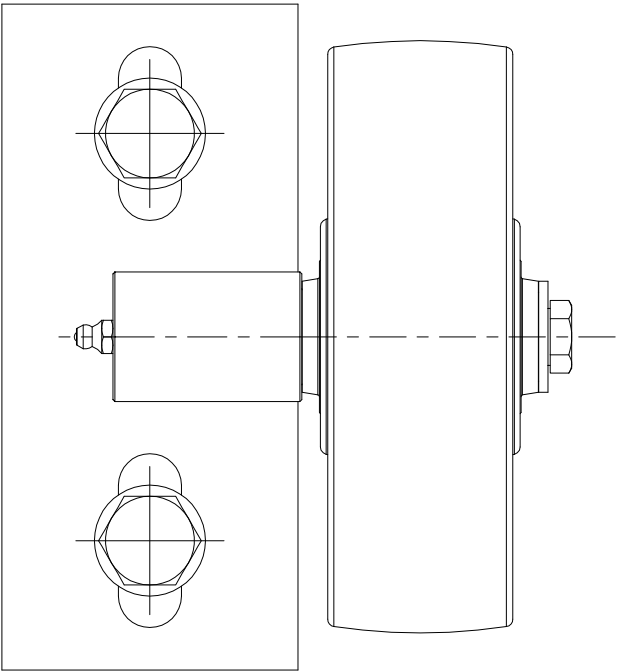
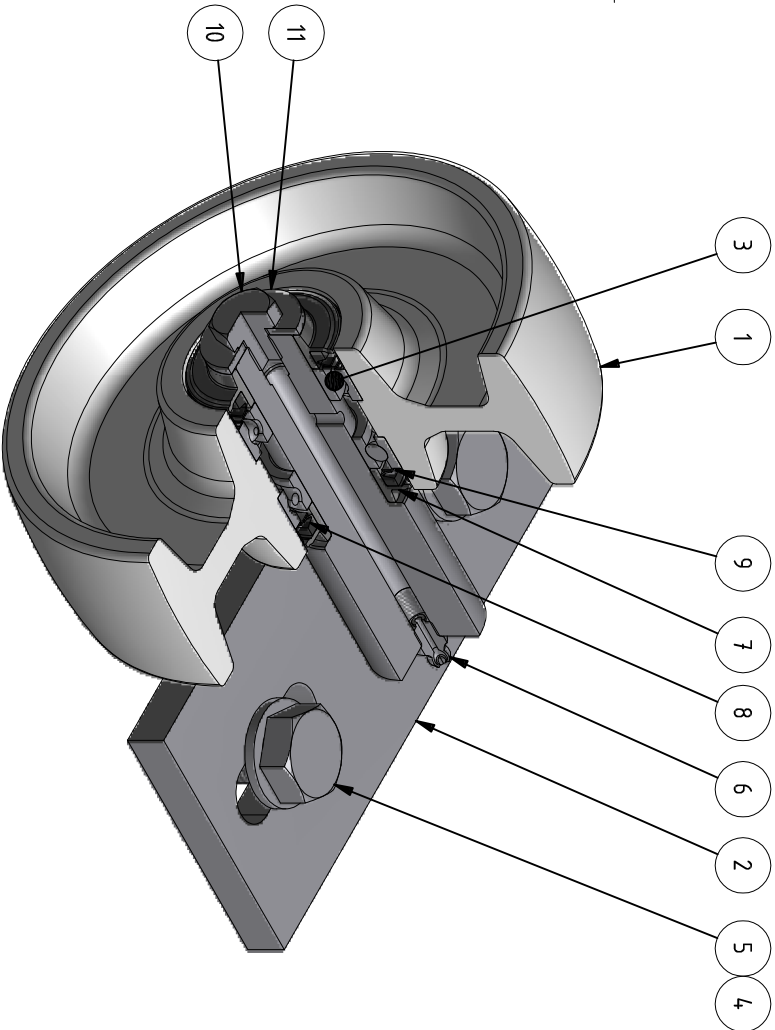
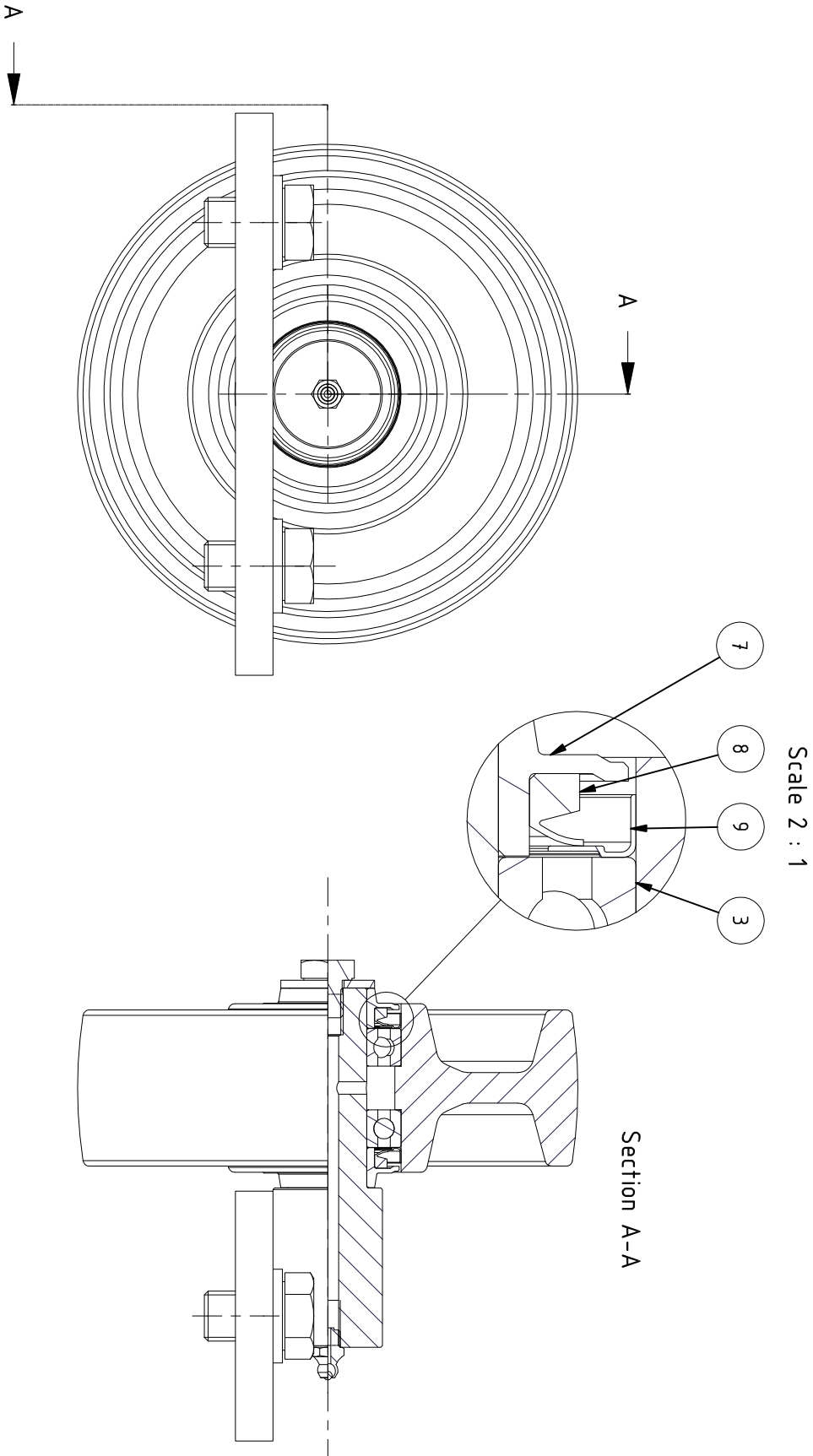
Designer	Drawn by	Projection method	Controlled by	Stand	Approved	Scale	Sheet size	Replaced by
	DLS			ISO 2768-m		1 : 15	A3	
HYDROTECH								
Assembly Solids Tray								
Drumfilter HDF1201-04								
Drumfilter HDF1601-07								
Sheet							1 / 1	Date
Draw. no.							0678	Edition
							C	

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

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

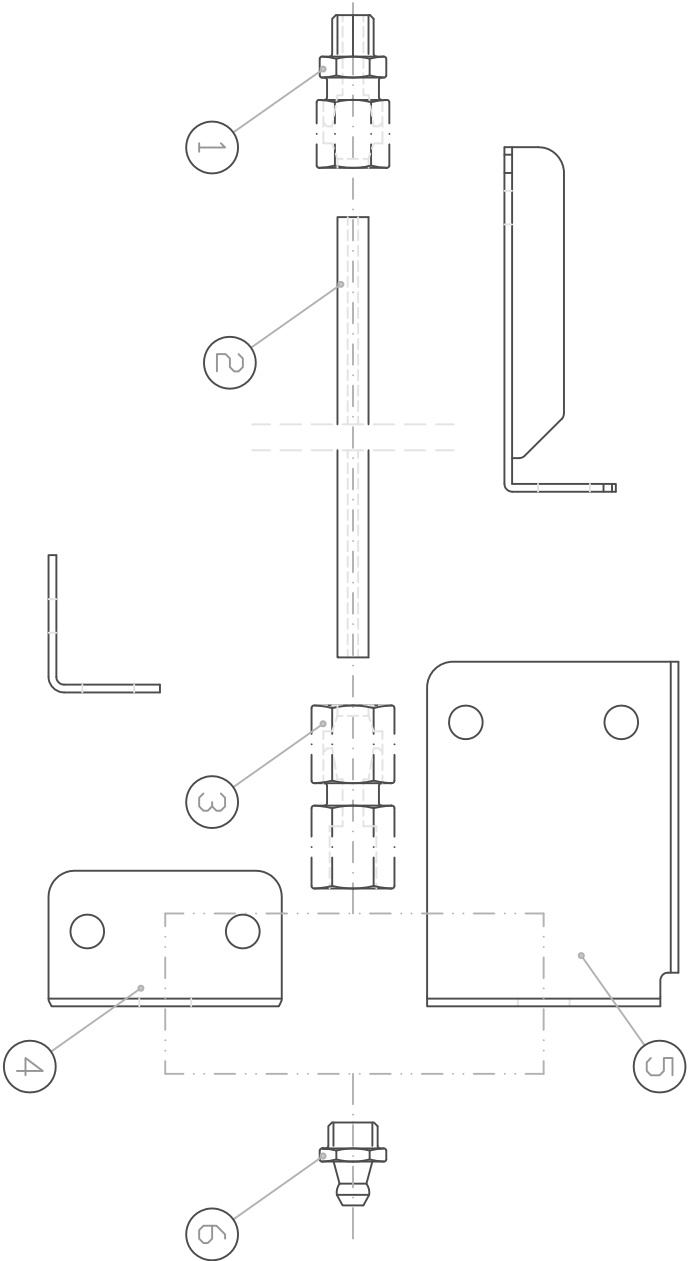


HYDROTECH



D	Changed for new grease nipple	110201	Ems	
Ed.	Change and/or message no.	Date	Made by	c-m no.
			V	

11	1	Washer	A4	RB 10,5x30x2,5	Art.no. 350552			
10	1	Bolt	A4	M6S M10x12	Art.no. 1014331			
9	2	Support for radial sealing	AISI 316L		Colson (Art.no. 1001606)			
8	2	Radial sealing	Rubber		Colson (Art.no. 1001606)			
7	2	Support for radial sealing	Plastic, Black		Colson (Art.no. 1001606)			
6	1	Grease Nipple	AISI 316L	M8x1	Art.no. 352310			
5	2	Bolt	A4	M6S M16 x 25	Art.no. 351625			
4	2	Washer	A4	RB 17x30x3	Art.no. 350570			
3	2	Ball bearing	AISI 304	6005	Colson (Art.no. 1001606)			
2	1	Bearing bracket			Drw. no. 2380			
1	1	Support wheel	Plastic, White	160 x 50	Colson (Art.no. 1001606)			
Part no.	Qty	Name		Material	Mod.-nr Blank Dimension Mass	Remark		
Designer	Drawn by	Copy	Controlled by	Stand.	Approved	Scale	Replaces	Replaced by
AM	Ems			ISO 2768-m		1:2		
HYDROTECH			Ass'y support wheel			Draw. no.		
			Drumfilter HDF800-1G, 1200, 1601-4			2390 Edition D		
						Date		
						010924		

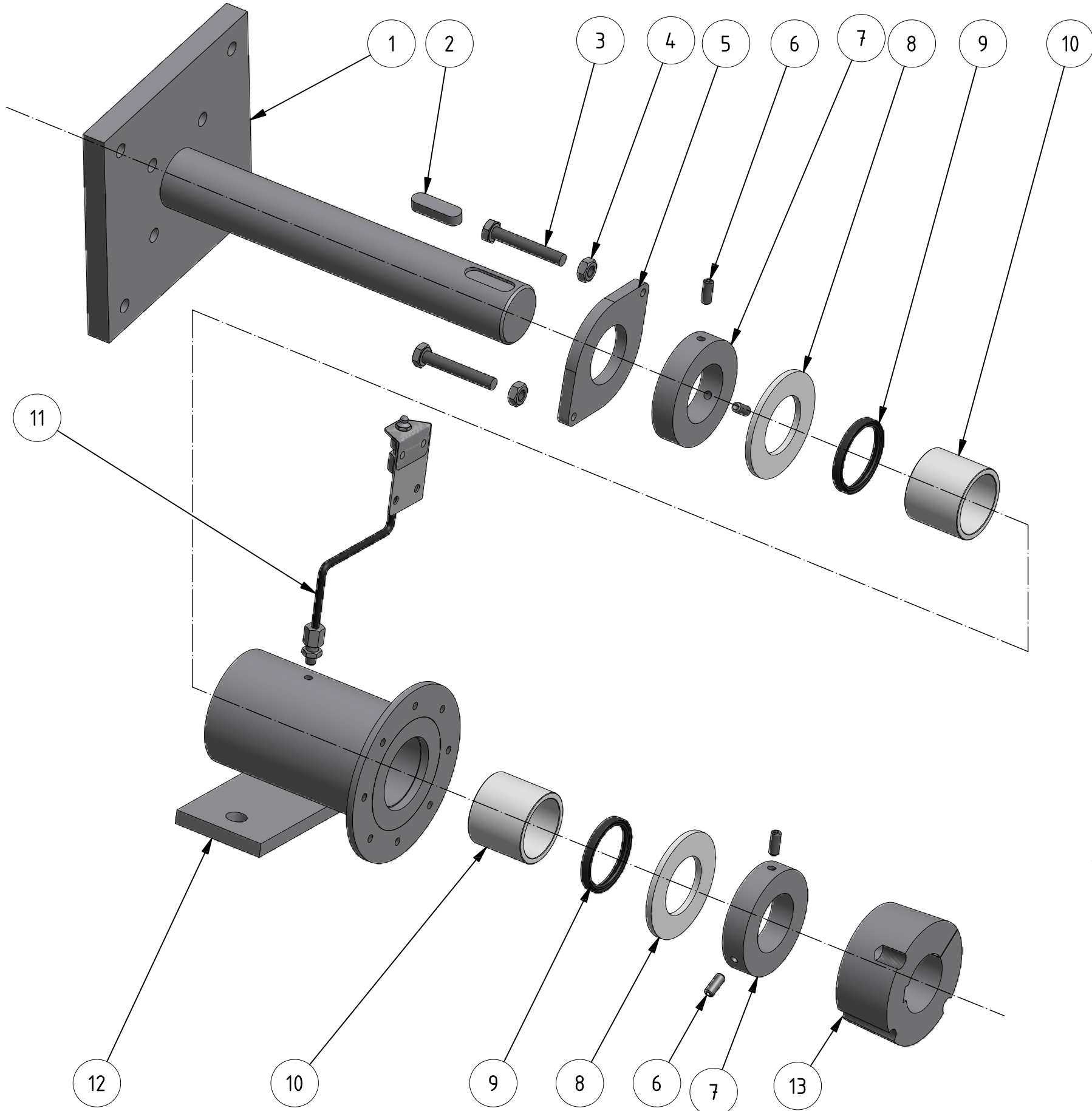


6	1	Greasing nipple	AISI 316L	G1/8"	H1-KR 1/8" SY
5	1	Holder	AISI 316L		Draw. 2405 pos 2
4	1	Holder	AISI 316L		Draw. 2405 pos 1
3	1	Angular zirk fitting	AISI 316L		90° (G1/8")
3	1	Zirk fitting	AISI 316L		GAI 6 LR SY(G1/8")
2	1	Hose	Polyamid	ø6	P 06 01 30
1	1	Zirk fitting	AISI 316L		GE 6-LLM M8x1 SY

Designer	Drawn by	Copy	Controlled by	Stand.	Approved	Scale	Replaces	Replaced by
	Per			ISO 2768-m		1:1		

HYDROTECH		Grease fitting		Rollerbearing housing		Drawn by 24.08 Edition A	
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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 chain wheel			3020-Ø50	Art. no. 1001274			
12	1	Bearing house				Drw. no. 1139			
11	1	Grease fittings				Drw. no. 2408			
10	2	Slide bearing Wolf			Ø 60/50 L=50	Art.no. 425510			
9	2	Shaft sealing		Rubber	50x62x7	Art. no. 1006089			
8	2	Axial bearing				Drw. no. 2126			
7	2	Retaining collar		AISI 316L	Ø50	Drw. no. 0674			
6	4	Set Screw		A4	MSK6SS M8x20	Art. no. 352120			
5	1	Axial retaining washer		AISI 316L	Ø50	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			14x9x45	Art. no. 424030			
1	1	Center shaft				Drw. no. 0550			
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 1601-04 2,3				Date 20110621		
							Draw. no. 4719 Edition A		

SERVICE

HDF1601/4-1F-1H

HDF1601/4-2F-2S-2H

Checklist / service report

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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HDF1601/4-2F-2S-2H

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

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HDF1601/4-2F-2S-2H

To be done every five years

Replace the parts from service kit

Ok

☐	Key steel 14x9x45 mm
☐	Spacer 90/50x5 mm
☐	Grease nipple, M8x1mm
☐	Slide bearing Ø50
☐	Shaft sealing radial 50x62x7
☐	Rubber seal 5x30,self-adhering
☐	Manometer 0-16 bar 1/4" SI
☐	Rubber lip seal HDF1601-7 H
☐	Rubber lip, Solids through
☐	Support wheel type 14
☐	Chain wheel 1" 10 Ø35, Z=10
☐	Chain wheel Z=32 1" for cone
☐	Cone to chain wheel 3020-Ø50
☐	Chain lock 1"
☐	Chain
☐	Drive assembly parts
☐	Hose to backwash pipe

Check and if needed replace strategic and critical parts:

OK

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

Remarks:

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