

SERVICE

HSF1702/8-1F

Thank you for choosing a Hydrotech filter.

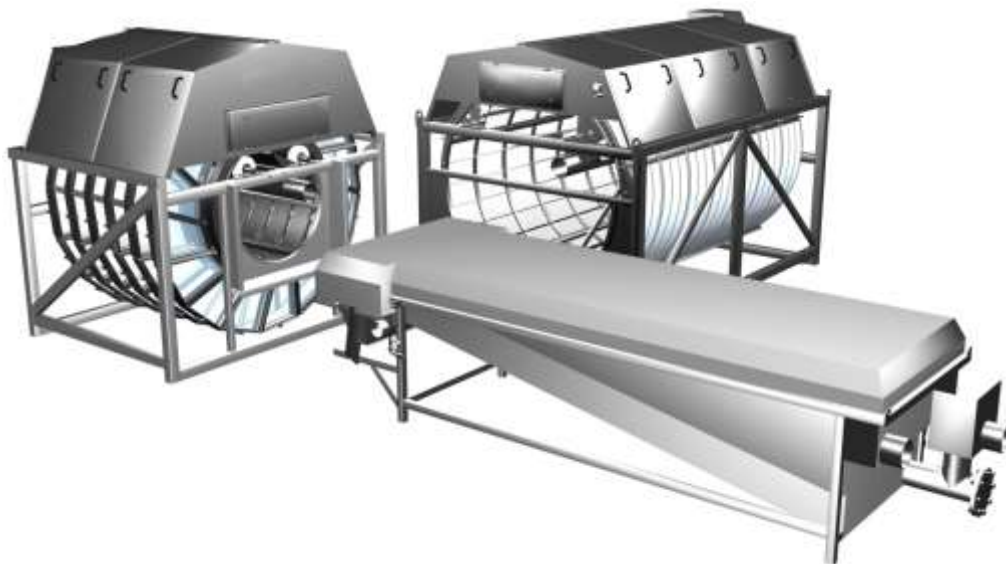
It is a reliable machine that will run for a long time with minimum care and service. Indeed, any mechanical equipment requires annual maintenance in order to operate efficiently and with as little down time as possible. This is also the case with your Hydrotech Discfilter HSF1702/8-1F

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, contact Hydrotech at services@hydrotech.se.



SERVICE

HSF1702/8-1F

5 year service kit

Art. N°	N° on drawing	Description	Qty
424040		Key steel 22x14x45 mm	1
1004130	2550-A pos.4	O-sealing 79,5x3.0 EPDM	2
1004125	2550-A pos.11	Lock ring Ø122x2.5	2
1003467	2550-A pos.6	Roller bearing INA SL01 4916A	2
1006083	2550-A pos.5	Shaft sealing radial 90x110x8	4
352310	2408-A pos.6	Grease nipple, M8x1mm	1
422260		Rubber seal 5x30,self-adhering	1,8
1004853	1673-D pos.4	Shaft, Belt pulley	1
1004852	1673-D pos.3	Belt pulley to backwash header	1
1012730	2029-I pos.5	Swivel connection, 2"	1
1010967	On backwash pipe	Manometer 0-16 bar 1/4" SI	1
1006312	2027-F pos.17	Belt, moving back wash header	1
1007999	2426-A pos.5	Rubber lip seal HSF1700	1
426375	1583	Support wheel type 13	2
420180	2048-D pos.6	Chain wheel 1" 10 Ø35	1
1001262	2048-D pos.7	Chain wheel Z=32 1" for cone	1
1001275	Part of 1001262	Cone to chain wheel 3020-Ø80	1
420120	Part on chain	Chain lock 1"	1
1006284	2048-D pos.8	Chain 1" Rex simplex	1

SERVICE

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Strategic spare parts

Art. N°	N° on drawing	Description	Qty
1022212		Backwash nozzles	6/disc
		Filter panel, with seal	24/disc
278040		Cartridge for strainer	1
1002438	2550-A pos.1	Drum shaft	1
1004602	2550-A pos.7	Bearing house	1

Critical spare parts

Art. N°	N° on drawing	Description	Qty
		Backwash pump	1
	2048-D pos.10	Drive gear/motor	1

Definitions:

5 year service kit:

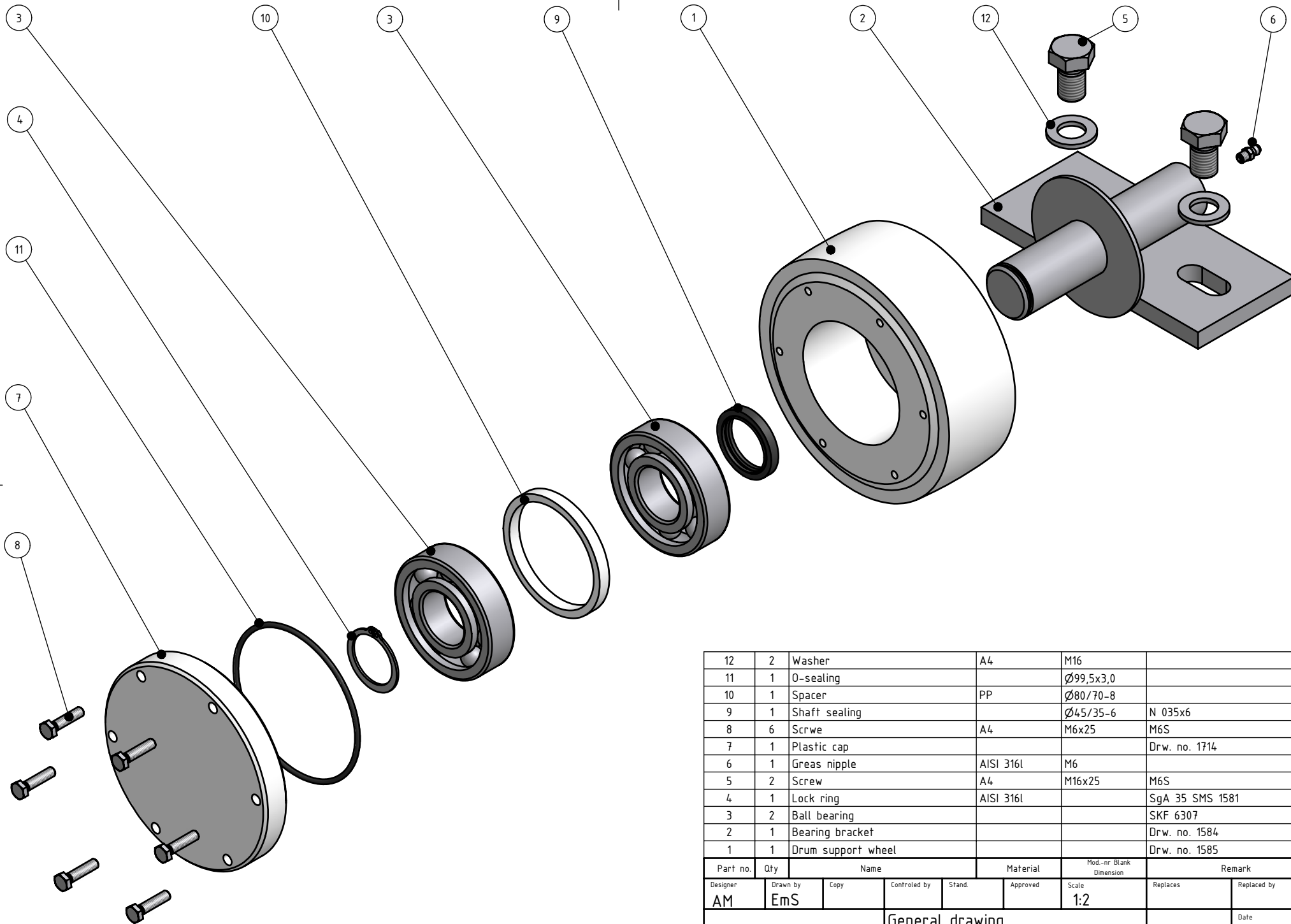
Parts to be changed after 5 years of operation

Strategic spare parts:

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

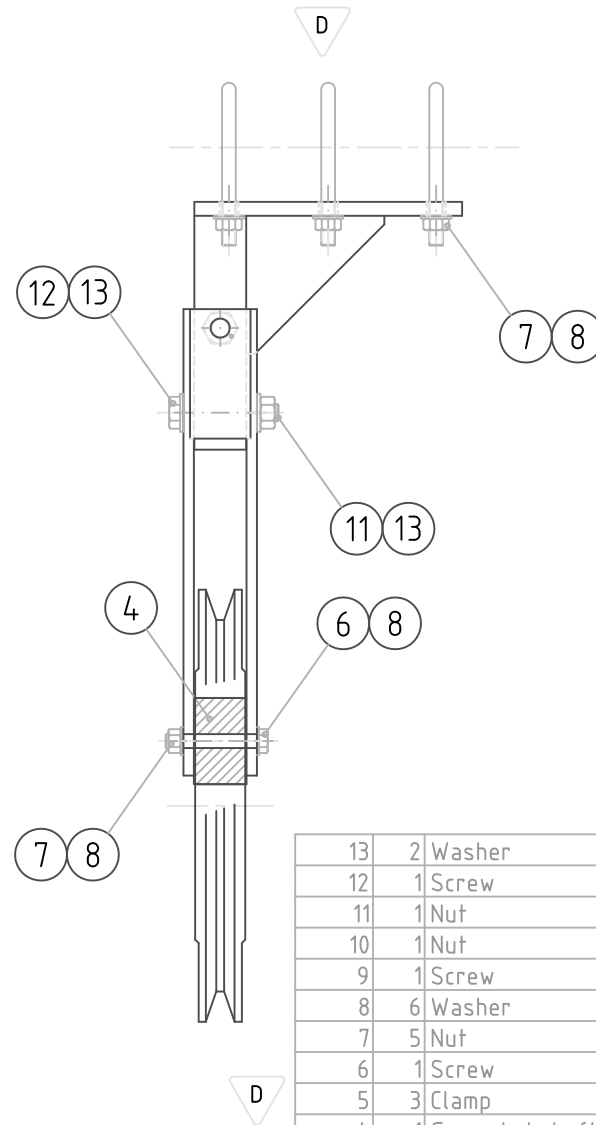
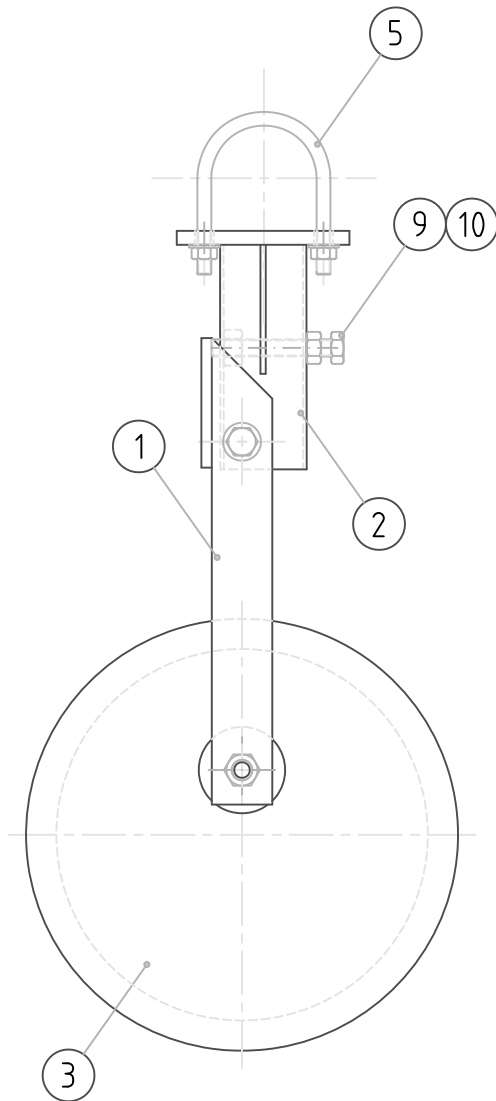
Critical spare parts:

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



12	2	Washer		A4	M16			
11	1	O-sealing			Ø99,5x3,0			
10	1	Spacer		PP	Ø80/70-8			
9	1	Shaft sealing			Ø45/35-6	N 035x6		
8	6	Scrwe		A4	M6x25	M6S		
7	1	Plastic cap				Drw. no. 1714		
6	1	Greas nipple		AISI 316l	M6			
5	2	Screw		A4	M16x25	M6S		
4	1	Lock ring		AISI 316l		SgA 35 SMS 1581		
3	2	Ball bearing				SKF 6307		
2	1	Bearing bracket				Drw. no. 1584		
1	1	Drum support wheel				Drw. no. 1585		
Part no.	Qty	Name		Material		Mod.-nr Blank Dimension	Remark	
Designer	Drawn by	Copy	Controlled by	Stand.	Approved	Scale	Replaces	Replaced by
AM	EmS					1:2		
			General drawing Drum support wheel type XIII Discfilter HSF 1702-8				Date	
							070201	
							Draw. no.	
				1583				

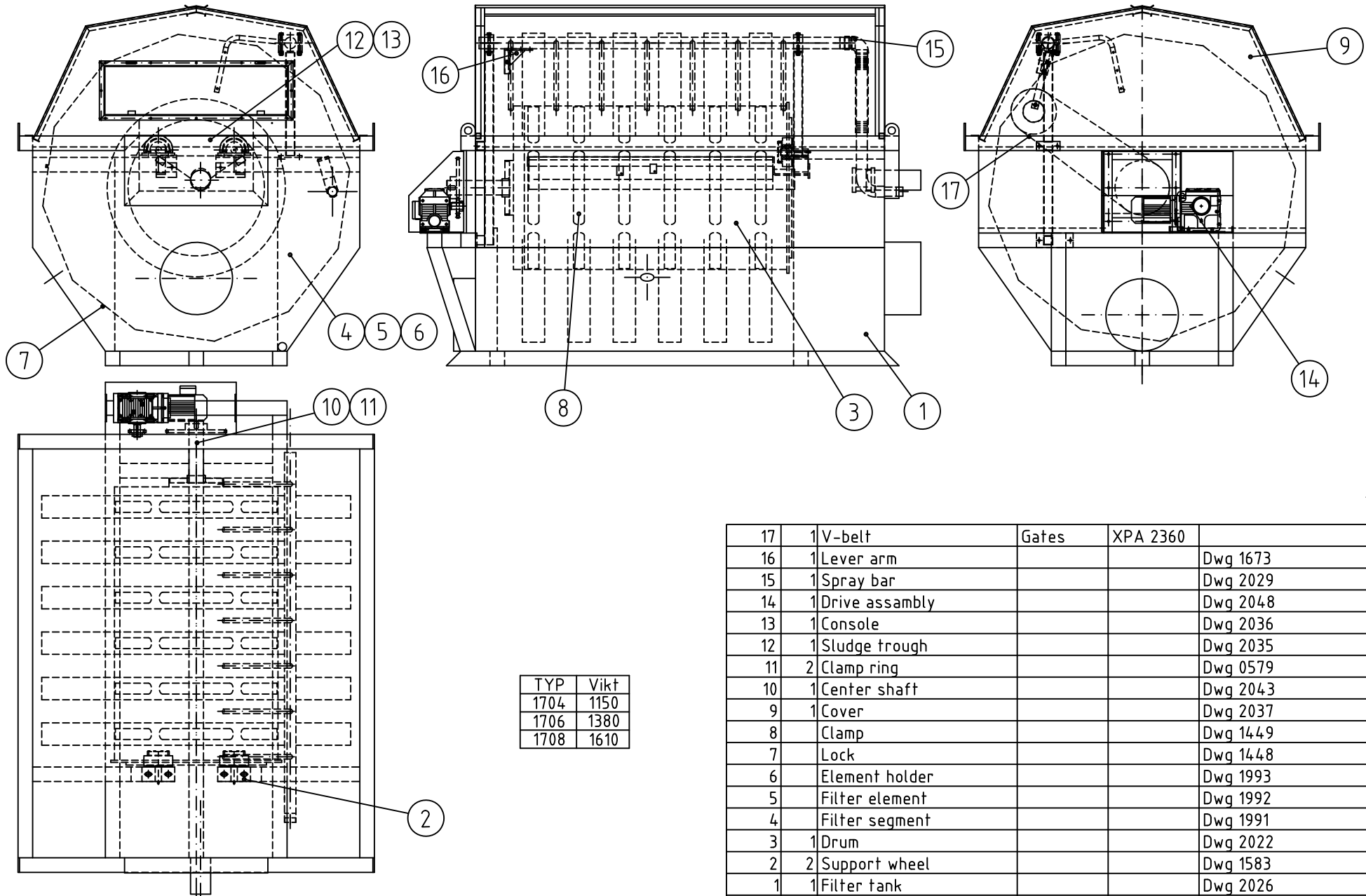
Ed.	Change and/or message no.	Date	Made by	c-m no.
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13	2	Washer	A4	10.5x20x2	
12	1	Screw	A4	M6S M10x60	
11	1	Nut	A4	M6NM M10	Lock-king
10	1	Nut	A4	M6M M10	
9	1	Screw	A4	M6S M10x80	
8	6	Washer	A4	8.4x16x1.6	
7	5	Nut	A4	M6NM M8	Lock-king
6	1	Screw	A4	M6S M8x60	
5	3	Clamp	A4	Ø60.5	art. no. 1002299
4	1	Grounded shaft	AISI 316L	Ø50	L=30
3	1	Pulley	Pom		Drw. no. 2638
2	1	Holder f. lever			Drw. no. 1750
1	1	Lever			Drw. no. 1751

D	Number of clamps was 2	040224	ADn	62
C	New pulley	021210	Per	
B	Pos.6 var Ø28	020129	ADn	
Ed.	Change and/or message no.	Date	Made by	c-m no.

Part no.	Quantity	Name	Material	Mod.-nr Blank Dimension	Remark
Designer	Drawn by	Copy	Controlled by	Stand.	Approved
	ADn			ISO 2768-m	
 HYDROTECH					Assembly lever HSF 1700, 2100 Discfilter
					Date 020508
					Draw. no. 1673 Edition D

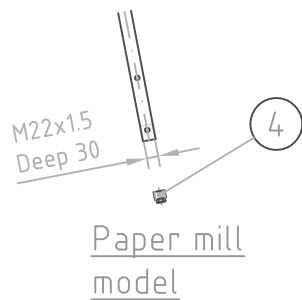
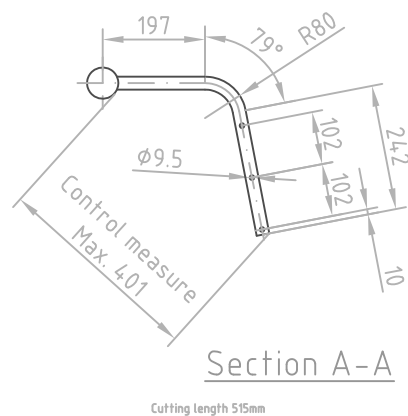


TYP	Vikt
1704	1150
1706	1380
1708	1610

E	Solidstray lowerd	020214	EmS	
D	Urtag i front tillk.	001005	ADn	
C	slammränna ändr.	000323	ADn	
B	slammränna ändr.	000214	ADn	
Ed.	Change and/or message no.	Date	Made by	c-m no.

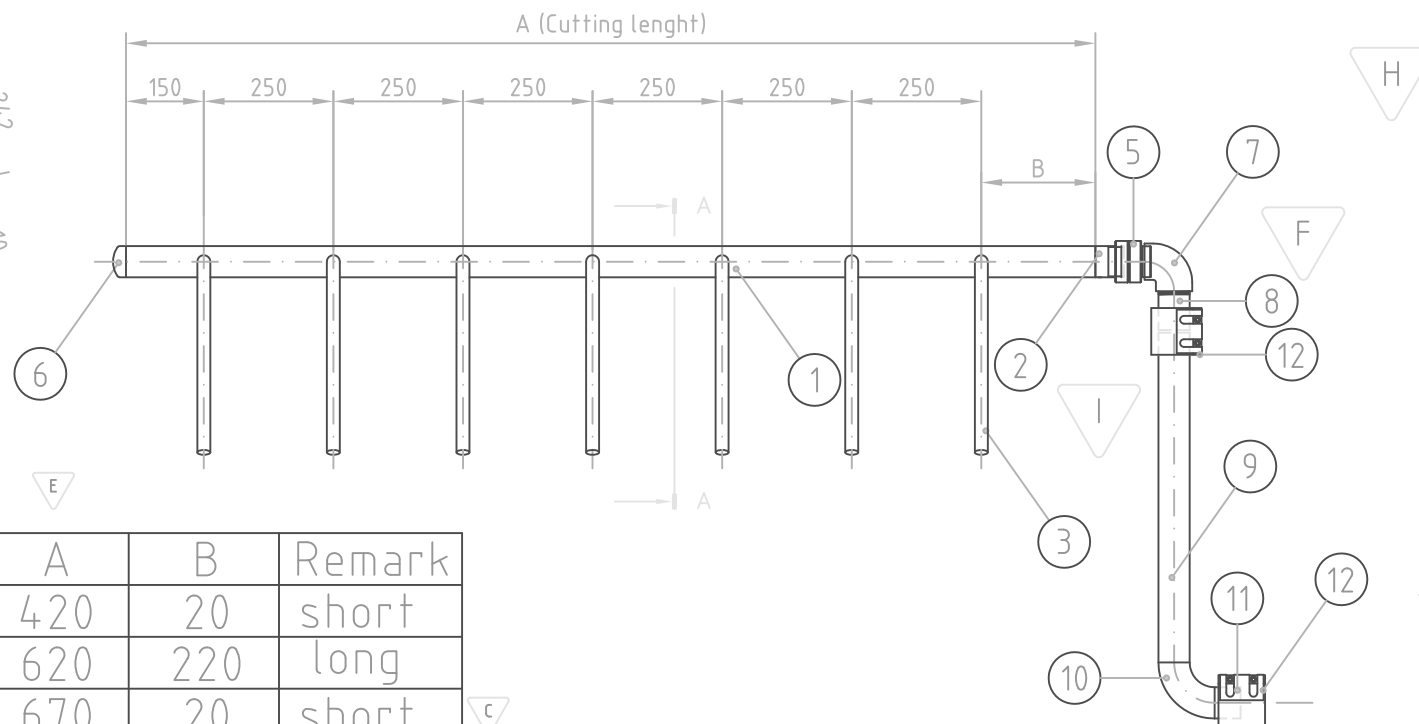
F	New V-belt for spray bar	021210	Per	
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17	1	V-belt	Gates	XPA 2360				
16	1	Lever arm			Dwg 1673			
15	1	Spray bar			Dwg 2029			
14	1	Drive assambly			Dwg 2048			
13	1	Console			Dwg 2036			
12	1	Sludge trough			Dwg 2035			
11	2	Clamp ring			Dwg 0579			
10	1	Center shaft			Dwg 2043			
9	1	Cover			Dwg 2037			
8		Clamp			Dwg 1449			
7		Lock			Dwg 1448			
6		Element holder			Dwg 1993			
5		Filter element			Dwg 1992			
4		Filter segment			Dwg 1991			
3	1	Drum			Dwg 2022			
2	2	Support wheel			Dwg 1583			
1	1	Filter tank			Dwg 2026			
Part no.	Quantity	Name		Material	Mod.-nr Blank Dimension	Remark		
Designer	Drawn by	Copy	Controlled by	Stand.	Approved	Replaces	Replaced by	
	ADn			ISO 2768-m		Scale 1:20		
HYDROTECH			General assý drawing Discfilter HSF 1704-8 1H				Date 000114	
						Draw. no.		2027 Edition F



TYPE	A	B	Remark
1701	420	20	short
1701	620	220	long
1702	670	20	short
1702	870	220	long
1704	1370	220	
1706	1870	220	
1708	2370	220	

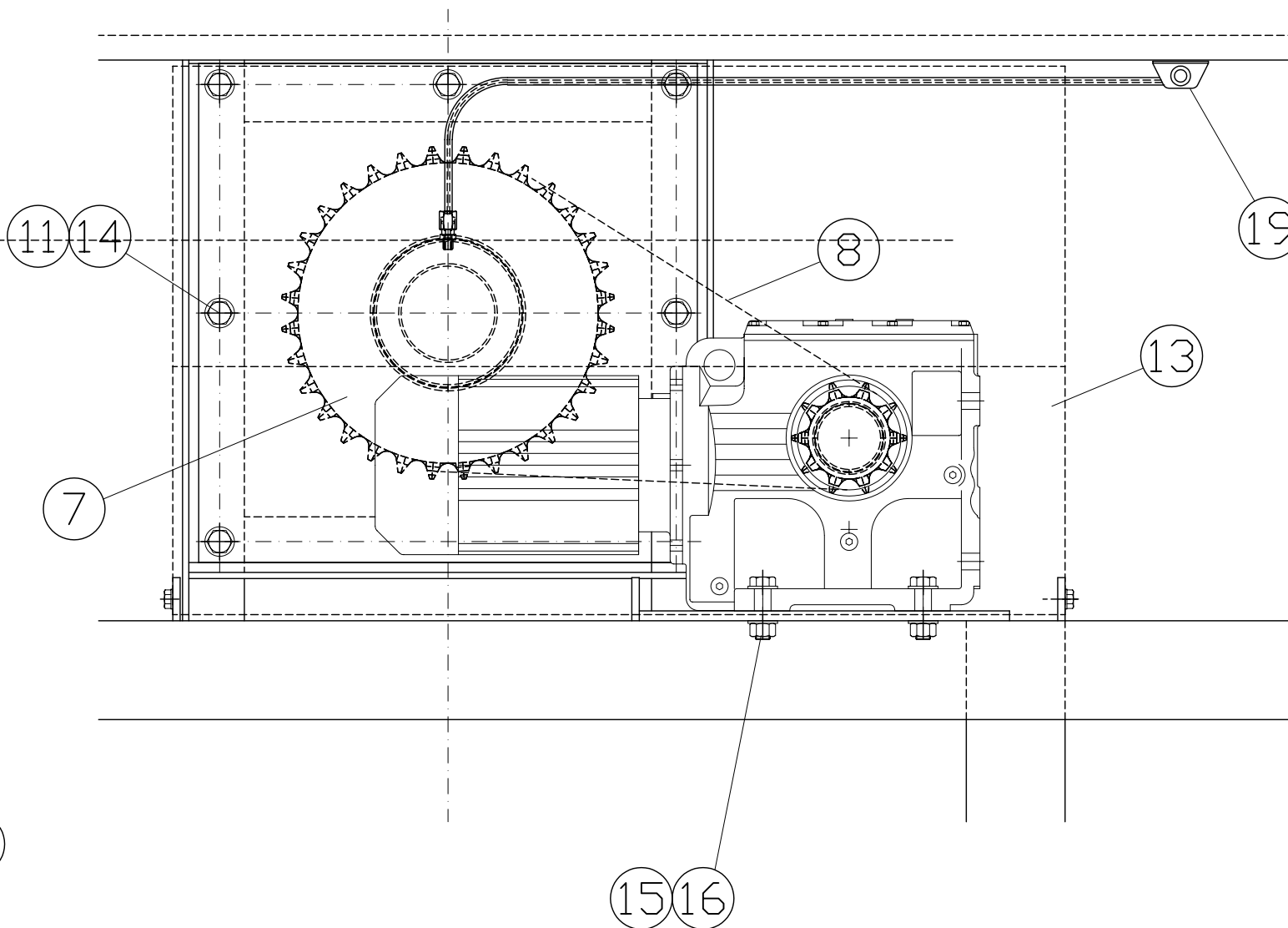
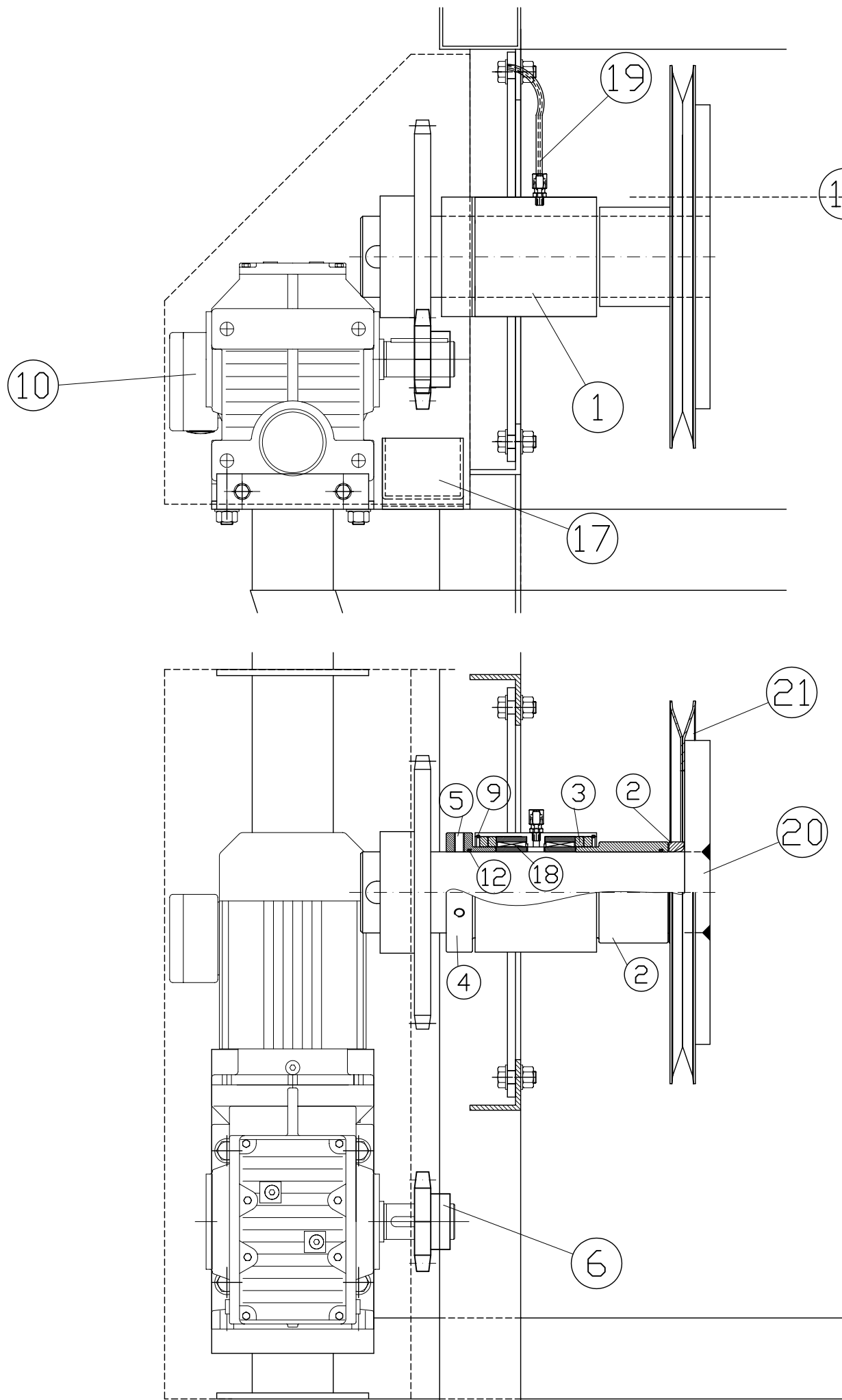
I	Pipe between bar and tank changed A&B shortened	050824	EmS	140
H	Tube changed for HSF 1701 & 1702	050519	EmS	
G	Pos.8 was hose socket	050301	Per	120
F	Changed for weld bend	031110	EmS	
E	A -15 mm	030206	EmS	
D	Thread M22x1.5 deleted.	02.04.02	ADn	0001
C	1702-short edition added.	00.09.26	ADn	
B	Angle 79° was 84°	00.03.07	ADn	
B	Measure 197 was 281	00.03.07	ADn	
Ed.	Change and/or message no.	Date	Made by	c-m no.



12	2	Tee kay	AISI 316L	2"				
11	1	Pipe	AISI 316L	ø60.3x2.0	L = 50			
10	1	Weld bend	AISI 316L	ø 60.3				
9	1	Pipe	AISI 316L	ø60.3x2.0	L = 635			
8	1	Weld nipple	L = 100	2"				
7	1	Treeded bend	N 84	2"				
6	1	Pippeend SS 482		2"				
5	1	Svivel R2"-R2"			Drw.No. 2314			
4		Plug			Drw.No. 2530			
3		Pipe		25x2	L=515mm			
2		Nipple	SS2333	2"	L=50			
1		Pipe		60.3x2				
Part no.	Quantity	Name		Material	Mod.-nr Blank Dimension	Remark		
Designer	Drawn by ADn	Copy	Controlled by	Stand. ISO 2768-m	Approved	Scale 1:5	Replaces	Replaced by
 HYDROTECH			Back wash header (1706 drawn) Discfilter HSF 1700 1H/F					Date 00.01.18
							Draw.no. 2029 Edition I	

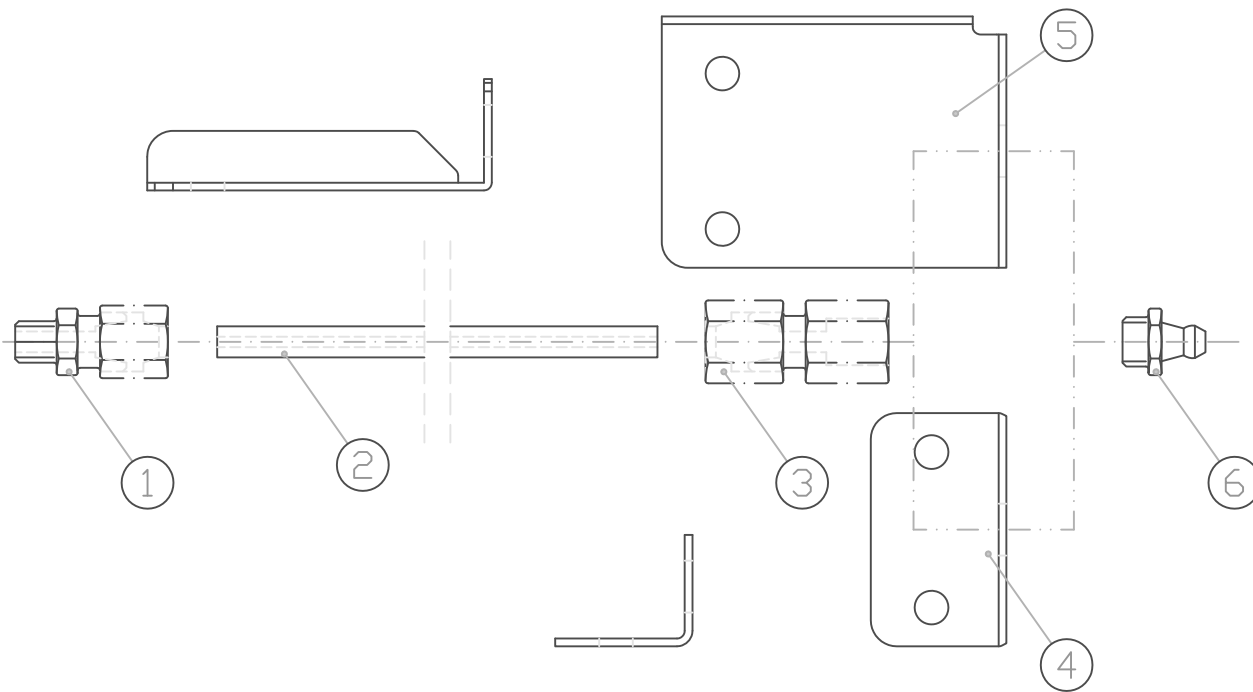
PROPERTY OF DRAWINGS AND PRESCRIPTIONS
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General conditions and use for this drawing is in accordance to ORGALIME S92

D	Pos. 21 added	070521	EmS	
C	Roller bearing added	011120	Per	
Nr	Ändring och/eller medd.-nr	Datum	Inf.	Godk.



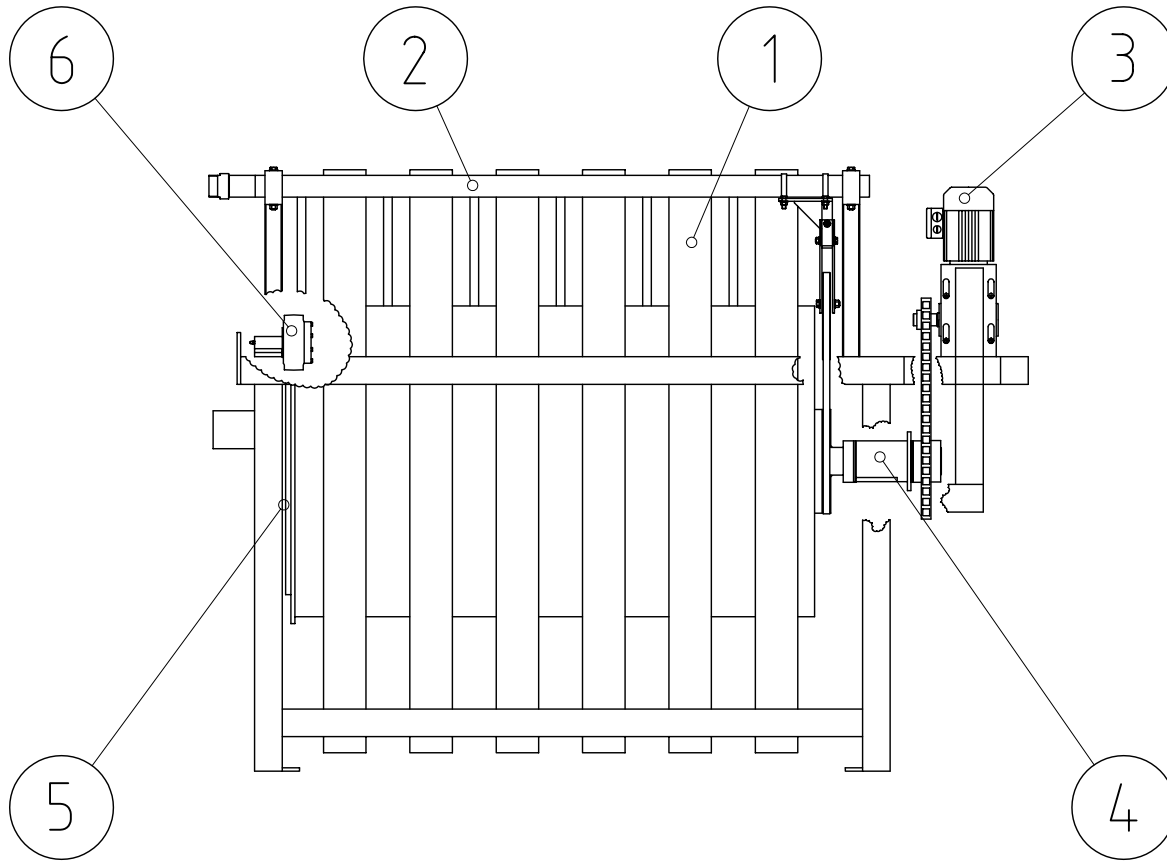
21	1Pully	AISI 316L		DWG. No. 2574				
20	1Drum shaft	AISI 316L		DWG. No. 2043				
19	1Greasefitting			DWG. No. 2408				
18	2Roller bearing		SL01 4916					
17	1Trough		Mod.1600	DWG. No. 669				
16	4Nut	AISI 316L	M12					
15	4Screw	AISI 316L	M12x50					
14	8Screw	AISI 316L	M6S 10x40					
13	1Motorcover			DWG. No. 2040				
12	2O-ring	EPDM	79.5x3.0					
11	8Nut	AISI 316L	M10					
10	1Motor		SEW 67	0.55 kW				
9	2Retaining spring	SS2347-04	Ø2.5					
8	1Chain		1"					
7	1Sprocket		1"-32teeth					
6	1Sprocket		1"-10teeth					
5	3Stop screw	AISI 316L	M10					
4	1Retaining collar	AISI 316L		DWG. No. 2399				
3	4Radial sealing		110x90x8					
2	2Spacer	AISI 316L		DWG. No. 2400				
1	1Bearing housing	AISI 316L		DWG. No. 2425				
Def.-nr	Ant.	Benämning		Material	Mod.-nr Ämne Dimension	Anm.		
Konstr.	Ritad	Kop.	Kontr.	Stand.	Godk.	Skala	Ersätter	Ersatt av
	ADn					1:5		
			Ass'y Drive					Dat.
			Discfilter HSF1704-08 1H					000203
							Ritn.-nr	2048 Edition D





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	Anguar 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			
Part no.	Quantity	Name		Material	Mod.-nr Blank Dimension	Remark		
Designer	Drawn by	Copy	Controlled by	Stand.	Approved	Scale	Replaces	Replaced by
	Per			ISO 2768-m		1:1		
HYDROTECH			Grease fitting					Date
			Rollerbearing housing					011017
			Draw. no. 2408 Edition A					

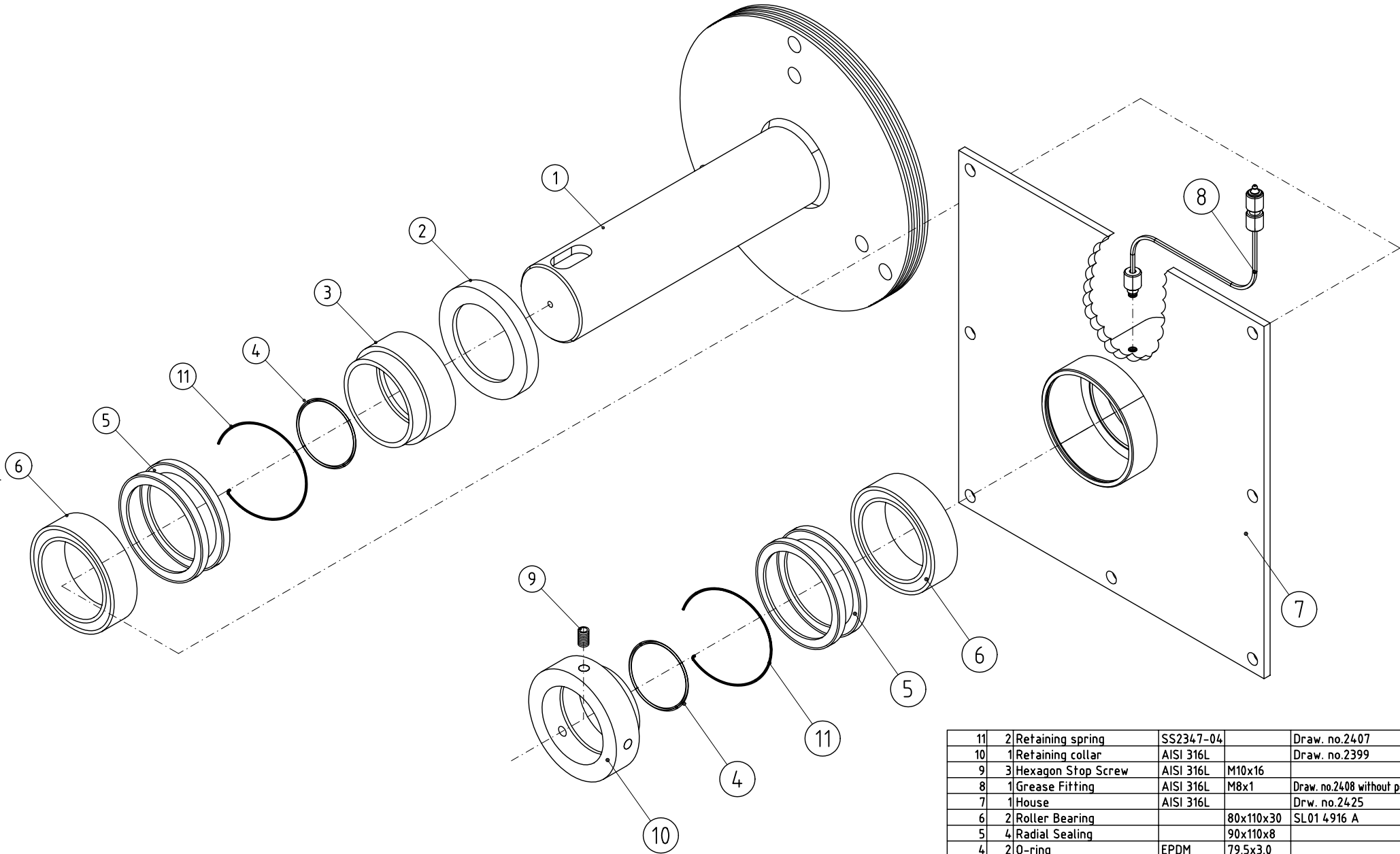
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1	Filter panel
	Screw
	F-piece, filter element holder
	Locking frame
	Filter panel, AISI 316L frame
	Rubber seal 20x5, self-adhering
	Rubber O-seal, self-adhering
2	Backwash header (moving)
	Swivel connection, complete
	Transmission belt
	Sliding block
	Nozzle TeeJet
	Nozzel nut TeeJet blue
	Nozzel tip TeeJet
	Nozzel gasket TeeJet
	Nozzel holder 3/4" TeeJet
3	Drive unit
	Electric motor
	Gear box
	Chain wheel
	Chain
	Chain lock
4	Drum shaft
	Bearing bracket
	Spacer
	Slide bearing
	Roller bearing
	Shaft sealing
	Retaining collar
5	Rubber lip seal
6	Support wheel
	Screw
	Plastic cap
	Retaining collar
	O-sealing
	Ball bearing
	Spacer
	Shaft sealing
	Wheel
	Shaft
	Grease nipple

No.	Qua.	Change and/or message no.	Date	Made by	Appr.
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Part no.	Quantity	Name			Material	Mod.-nr Blank Dimension	Remark	
Designer	Drawn by	Copy	Controlled by	Stand.	Approved	Scale	Replaces	Replaced by
	EmS			ISO 2768-m		1:15		
 HYDROTECH		Overview spareparts Discfilter						Date 011115
							Draw. no. 2426 Edition A	



11	2 Retaining spring	SS2347-04		Draw. no.2407				
10	1 Retaining collar	AISI 316L		Draw. no.2399				
9	3 Hexagon Stop Screw	AISI 316L	M10x16					
8	1 Grease Fitting	AISI 316L	M8x1	Draw. no.2408 without pos.4				
7	1 House	AISI 316L		Drw. no.2425				
6	2 Roller Bearing		80x110x30	SL01 4916 A				
5	4 Radial Sealing		90x110x8					
4	2 O-ring	EPDM	79.5x3.0					
3	1 Spacing sleeve	AISI 316L		Draw. no.2400				
2	1 Spacer	AISI 316L		Draw. no.2400				
1	1 Drum Shaft	AISI 316L	ø80x345	Draw. no.2043				
Part no.	Quantity	Name	Material	Mod-nr Blank Dimension	Remark			
Designer	Drawn by	Copy	Controlled by	Stand.	Approved	Scale	Replaces	Replaced by
	EmS			ISO 2768-m		1:2		
Assembly Centre Shaft Bearing								Date
Disfilter HSF 1700 type 1								020523
							Draw. no.	2550 Edition A

SERVICE

HSF1702/8-1F

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:

SERVICE

HSF1702/8-1F

To be done on yearly visit

☐

Check oil condition in drive unit according to separate manual

Remarks:

☐

Check drum bearings for wear

Remarks:

☐

Check shaft gaskets for wear

Remarks:

☐

Check inlet gasket for wear

Remarks:

☐

Check support wheels for wear

Remarks:

SERVICE

HSF1702/8-1F

To be done every five years

Replace the parts from service kit

OK

☐	Key steel 22x14x45 mm
☐	O-sealing 79,5x3.0 EPDM
☐	Lock ring Ø122x2,5
☐	Roller bearing INA SL01 4916A
☐	Shaft sealing radial 90x110x8
☐	Grease nipple, M8x1mm
☐	Rubber seal 5x30, self-adhering
☐	Shaft, Belt pulley
☐	Belt pulley to backwash header
☐	Swivel connection, 2"
☐	Manometer 0-16 bar 1/4" SI
☐	Belt, moving back wash header
☐	Rubber lip seal HSF1700
☐	Support wheel type 13 complete
☐	Chain wheel 1" 10 Ø35
☐	Chain wheel Z=32 1" for cone
☐	Chain
☐	Screws, washers and nuts for center shaft

Check and if needed replace strategic and critical parts

OK

Replaced

☐	Backwash nozzles	Qty: _____
☐	Chemical nozzles	Qty: _____
☐	Driveshaft	Qty: _____
☐	Bearing house	Qty: _____
☐	Filter panels	Qty: _____
☐	SEW drive unit	Qty: _____

Remarks:
