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# BacSomatic™ Spare Parts Manual

6007 5349 / Rev. 5



All information is liable to change without prior notice. For latest information about documentation updates for your specific instrument, please contact your local FOSS representative.

<b>Rev.</b>	<b>Date of Issue</b>	<b>Revised Material</b>
1	2017-04-07	First issue
2	2017-05-09	New part number of tube
3	2017-11-06	General update
4	2017-11-16	Minor changes
5	2018-03-08	General update

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# 1 General

This document contains Spare Parts for BacSomatic™.



## **Warning**

***Please read Safety Precautions in the Service Manual prior to maintenance or exchange of spare parts.***

***The system may only be repaired by personnel certified by FOSS.***

## 1.1 Explanation of Definitions

Explanation of definitions used in this manual:

- Drawing No.                      FOSS drawing number.
- Page                                Drawing page in FOSS database.
- Part No.                          Spare part number for ordering.
- Prod. No.                         FOSS production number.

### **Note:**

When ordering new spare parts, please use the Part No. stated in this manual for the parts in question.

## **2 Assembly Identification**

**Drawing No.: 60076890****Page: 1****Pos. Description**

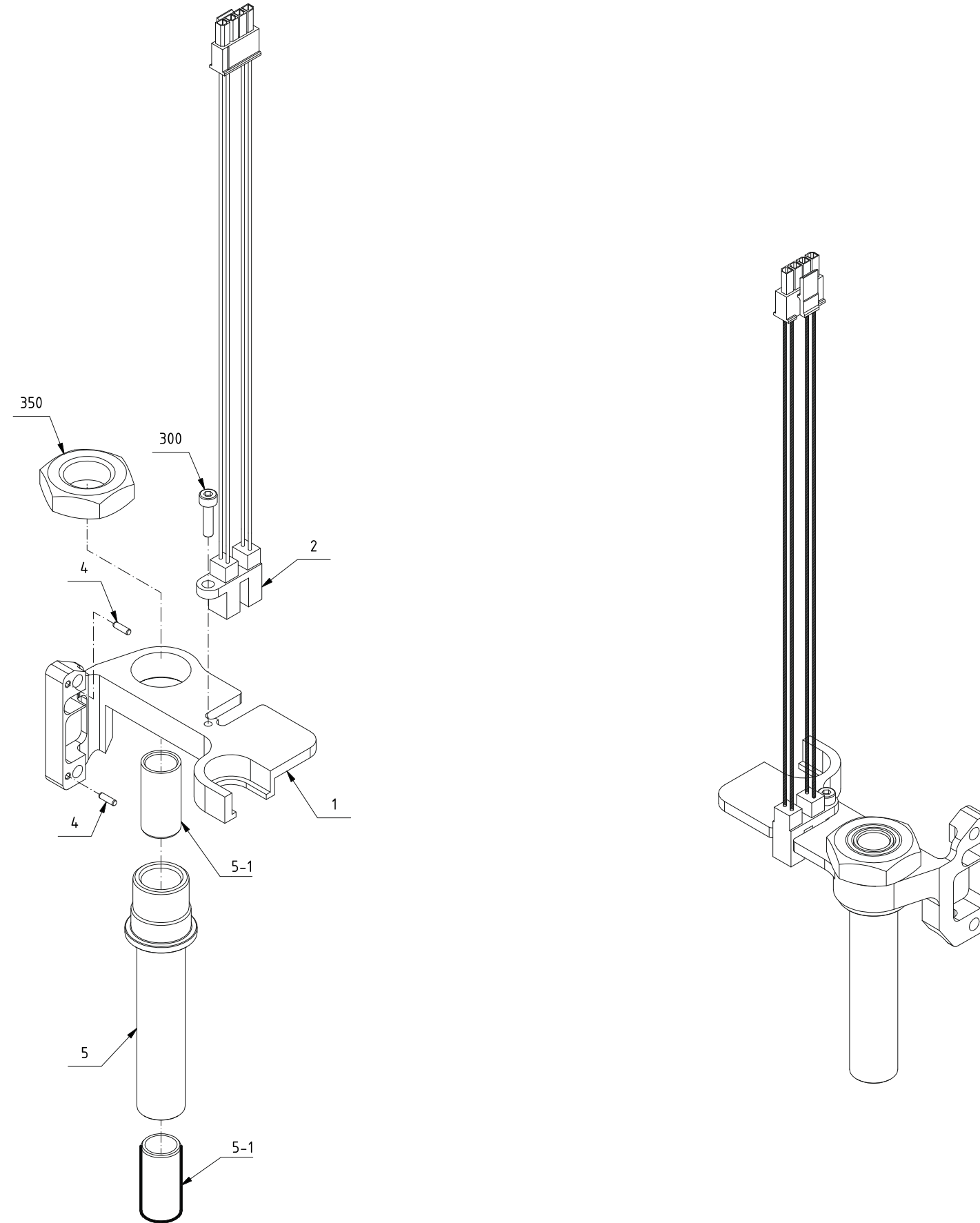
40-1	Pipette Arm Assy
50-1	Pipette Assy
60-1	Block for detector short FL IBC assy
70-1	Flowcell and laser block f bacteria assy
80-1	Flowcell needle inlet FC Pontos assy
100-1	FC Pontos short FL IBC module
150-1	Flow Manifold Assy
200-1	Incubation chamber Assy
250-1	Rinse chamber module
300-1	Bag Holder Assembly
350-1	Inline filter assy
400-1	Power Supply Assy
450-1	Bag Connector machined assy w. detector
500-1	Basic Unit
500-2	Basic Unit
500-3	Basic Unit
500-4	Basic Unit
500-5	Basic Unit
500-6	Basic Unit, Tube connection
500-7	Basic Unit, EL Connection
500-8	Basic Unit, EL Connection
600-1	Pipette f liquid container 273 mm assy
650-1	Waste Unit



### **3 Pipette Arm Assy**

**Drawing No.: 60075698      Page: 40**

<b>Pos.</b>	<b>Part No.</b>	<b>Description</b>	<b>Prod. No.</b>
2	60077395	Optical switch with cable	
5-1	60075697	Bearing Sleeve	
300	00373365	Allen Screw M02.5x010	
350	60076548	Hex Nut M14.0 SS A2 DIN 439B	



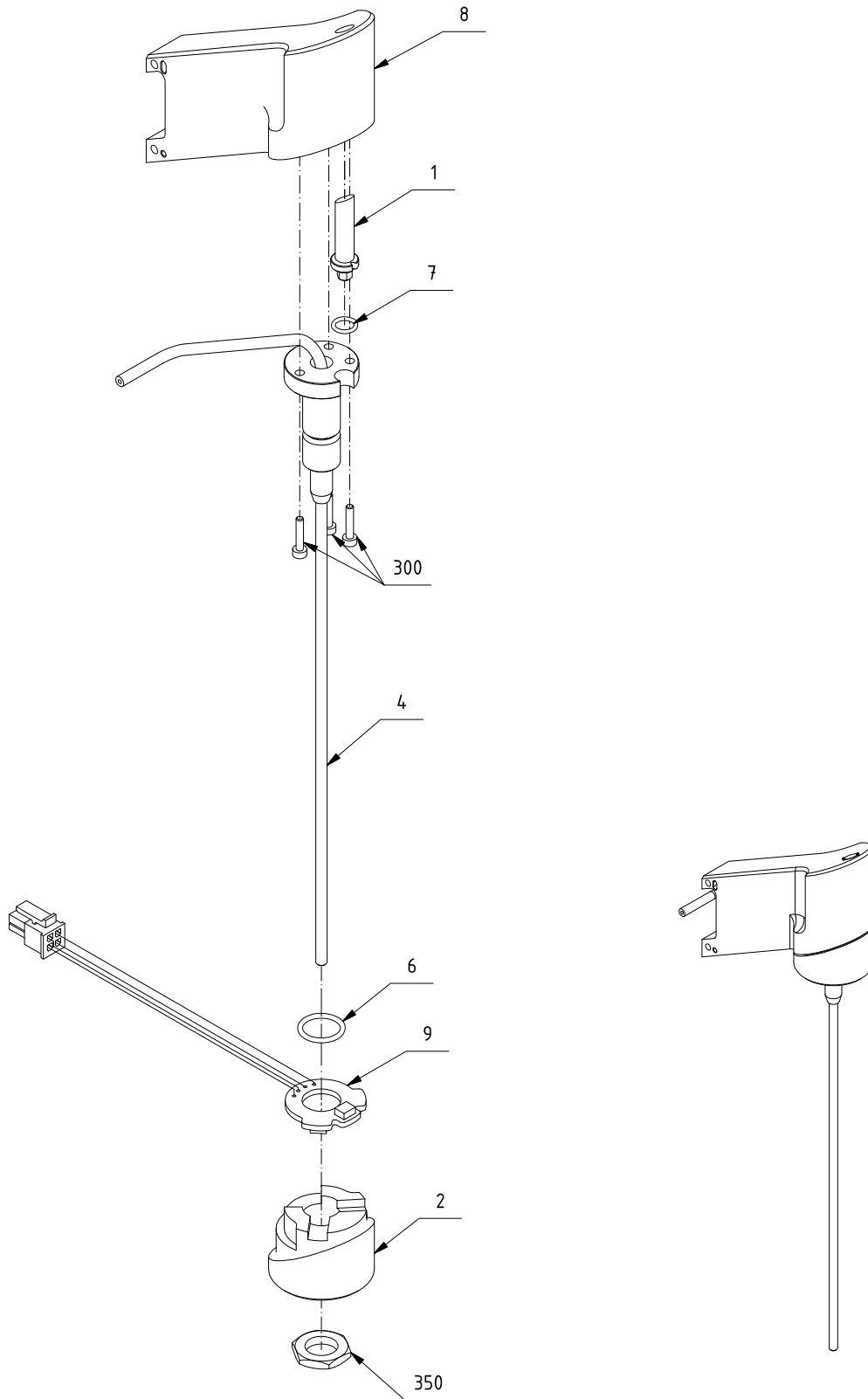
60075698 Doc. Rev:03 Doc.type:95

Fig. 2

## 4 Pipette Assy

**Drawing No.:** 60070966      **Page:** 50

<b>Pos.</b>	<b>Part No.</b>	<b>Description</b>	<b>Prod. No.</b>
6	00302851	O-ring $\varnothing$ 10.00x $\varnothing$ 1.30	
7	60015274	O-ring $\varnothing$ 005.00x $\varnothing$ 1.00 FPM (Viton)	
9	01052309	PCB Assy Pipette Led PCB	
350	00016865	Nut m10	



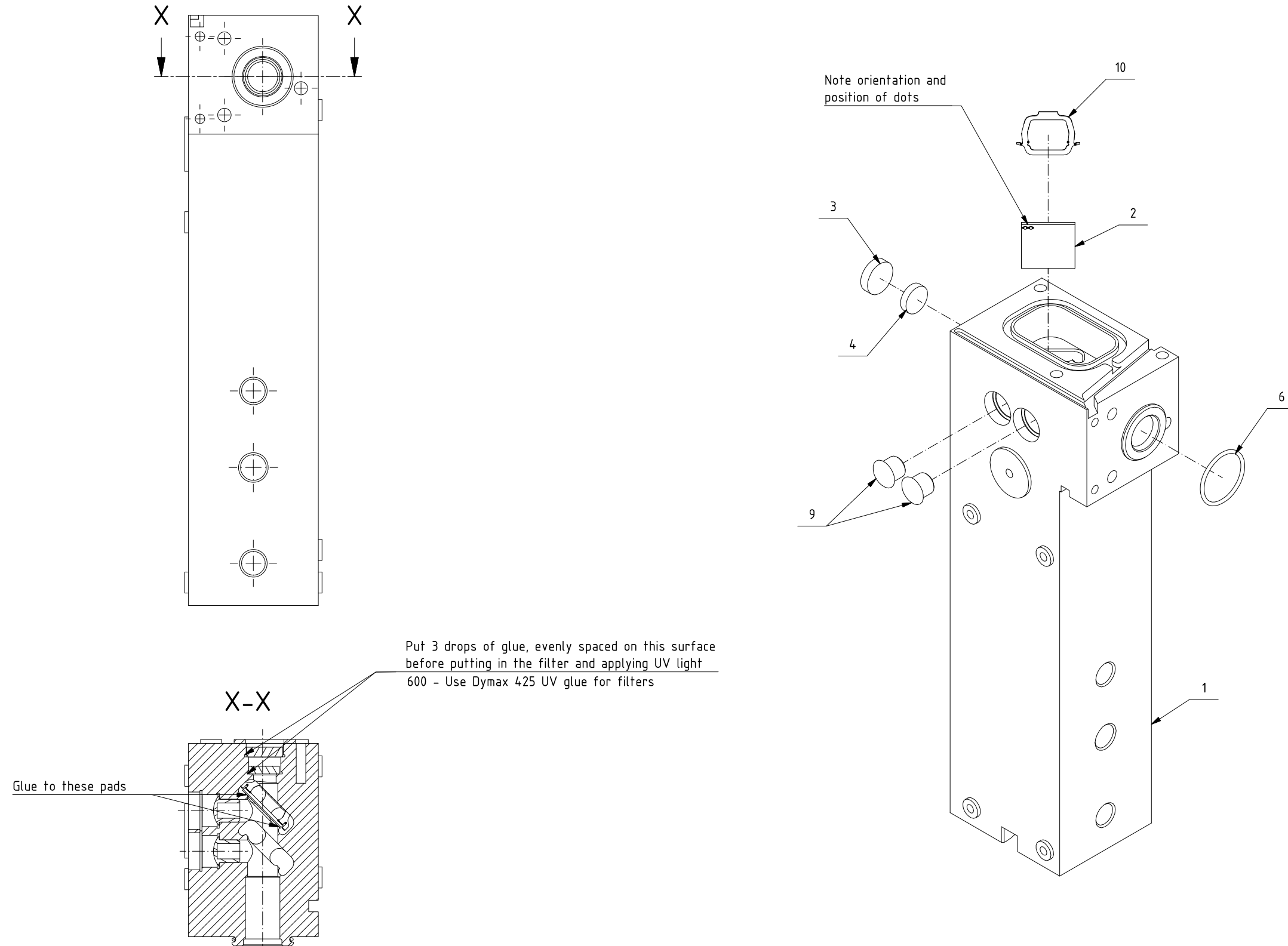
60070966 Doc. Rev:03 Doc.type:95

Fig. 3

## **5 Block for Detector Short FL IBC Assy**

**Drawing No.: 60069556      Page: 60**

<b>Pos.</b>	<b>Part No.</b>	<b>Description</b>	<b>Prod. No.</b>
6	00369835	O-ring	
9	60065530	Cover button	



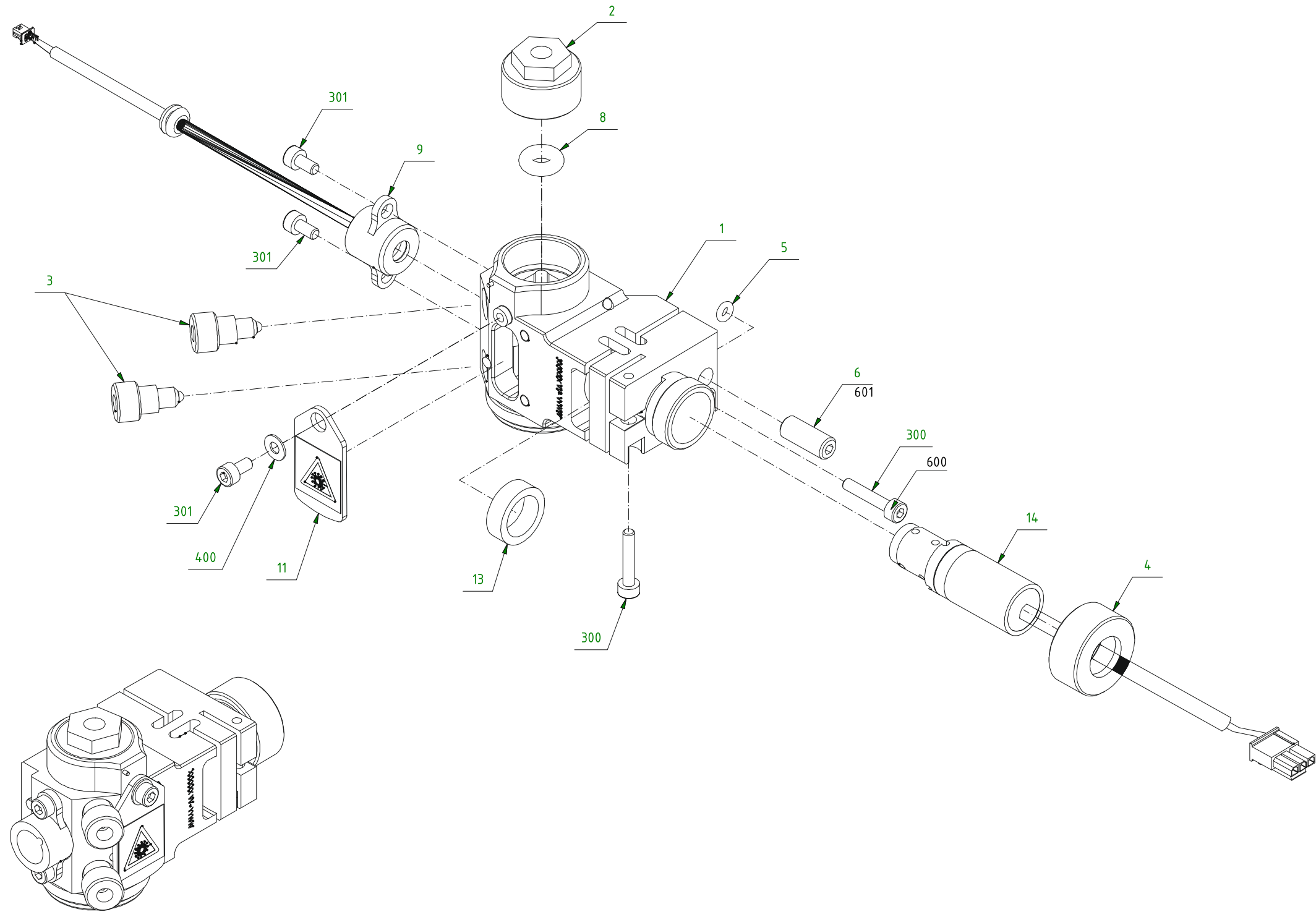
60069556 Doc. Rev:05 Doc.type:95

Fig. 4

## 6 Flowcell and Laser Block F Bacteria Assy

*Drawing No.:* 60068675      *Page:* 70

<b>Pos.</b>	<b>Part No.</b>	<b>Description</b>	<b>Prod. No.</b>
1	60068674	Flowcell block FC Pontos short FL cpl	
2	60076053	Clamp	
3	60059154	Pressure Pad w spring plunger M5	
4	60059307	Axial adjustment screw	
6	60059310	Angular adjustment screw	
8	60059621	O-ring Ø004.34xØ3.53 NBR 70shore	
9	60078133	Detector f laser cpl	60063888
11	60082342	Shielding ferritic for window including	
13	60068680	Wave spring	
14	60077519	Laser 9.0µm x 90 µm short FL Pontos	60068677
300	00108480	Allen screw M03.0x016	
301	00227348	Allen screw M03.0x006	
400	00296640	Washer	
601	60051189	Grease Foodlube Multipasta	



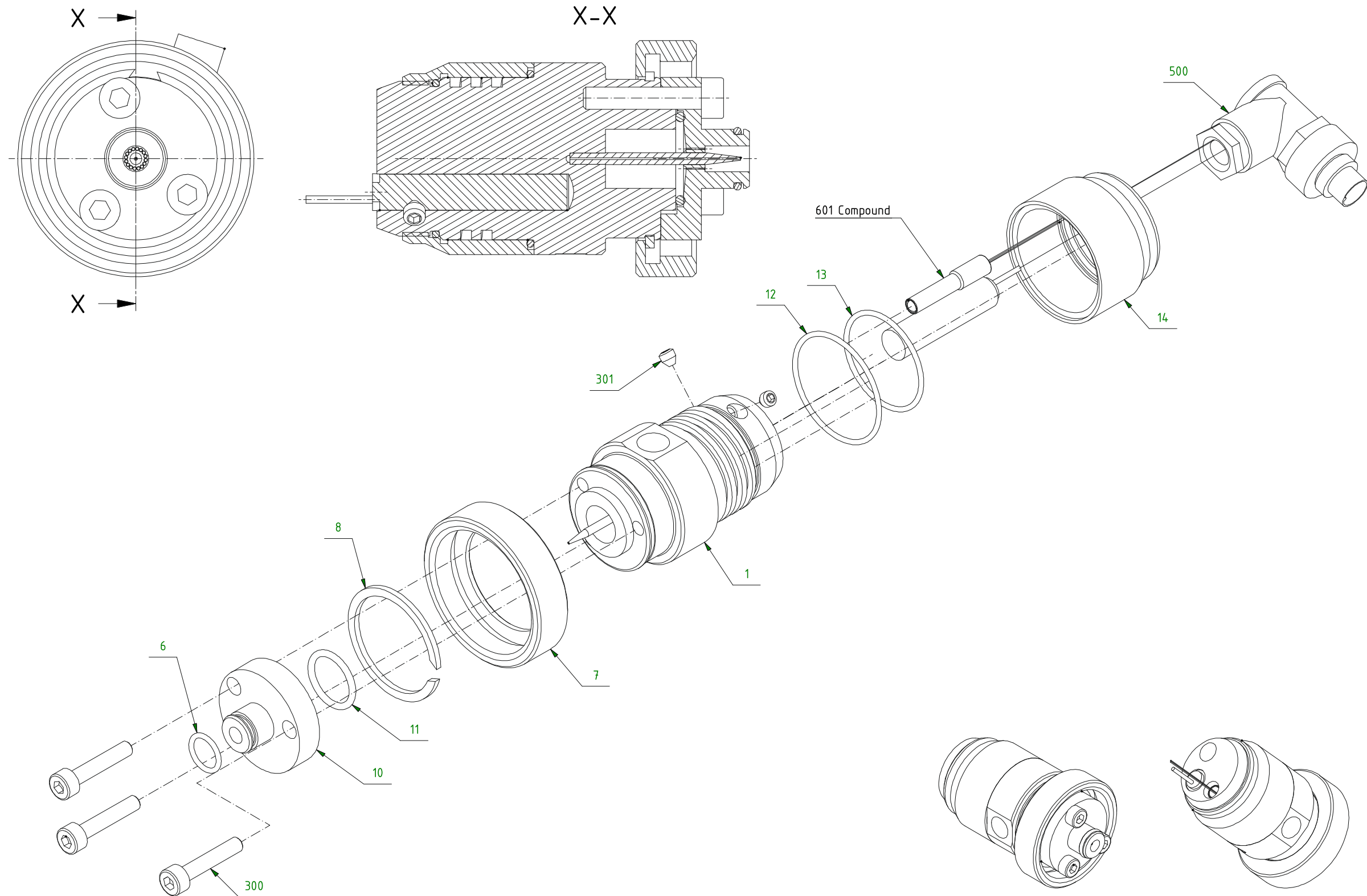
60068675 Doc. Rev:09 Doc.type:95

Fig. 5

## 7 Flowcell Needle Inlet FC Pontos Assy

**Drawing No.:** 60058410      **Page:** 80

<b>Pos.</b>	<b>Part No.</b>	<b>Description</b>	<b>Prod. No.</b>
6	60063102	O-ring Ø006.50xØ1.00 NBR 70shore	
7	00534073	Union bottom	
8	00534156	Seeger-ring	
10	60058362	Needle guide	
11	00302851	O-ring ø010.00xø1.30	
12	00534065	O-ring	
13	00534057	O-ring	
14	00534040	Cap	
300	00108480	Allen screw M03.0x016	
301	00140525	Allen screw	
500	60069113	Cable inlet bulkhead to heater cpl	



60058410 Doc. Rev:07 Doc.type:95

Fig. 6

## 8 FC Pontos Short FL IBC Module

*Drawing No.:* 60068600      *Page:* 100

Pos.	Part No.	Description	Prod. No.
2	60078132	Flowcell needle inlet FC Pontos assy	60058410
5	60062383	Flowcell 200x200µm 13x13x24 mm	
6	00390120	O-ring	
7	60047911	O-ring ø009.05xø0.50 NBR 70shore	
8	60078136	Lens opt focus 10.0 Ø10.0 3.25	60058412
9	60082285	Inline filter assy	
13	60063835	Washer f detectors	
18	60063937	Adjustment screw modified M3x10	
24	60055794	Cable clip	
27	60072403	Valve cpl	
300	60054030	Allen screw M03.0x045 Mc-SS A4	
301	00011569	Allen screw M4x10	
302	00227348	Allen screw M03.0x006	
304	15320017	Allen screw M02.5X016 MC A4	
501	60077536	Cable Adapter to V7	
557	60073175	Tube ø01.00/ø01/16" PTFE L=0095mm assy	
558	60070953	Tube ø01.00/ø01/16" PTFE L=0080mm assy	

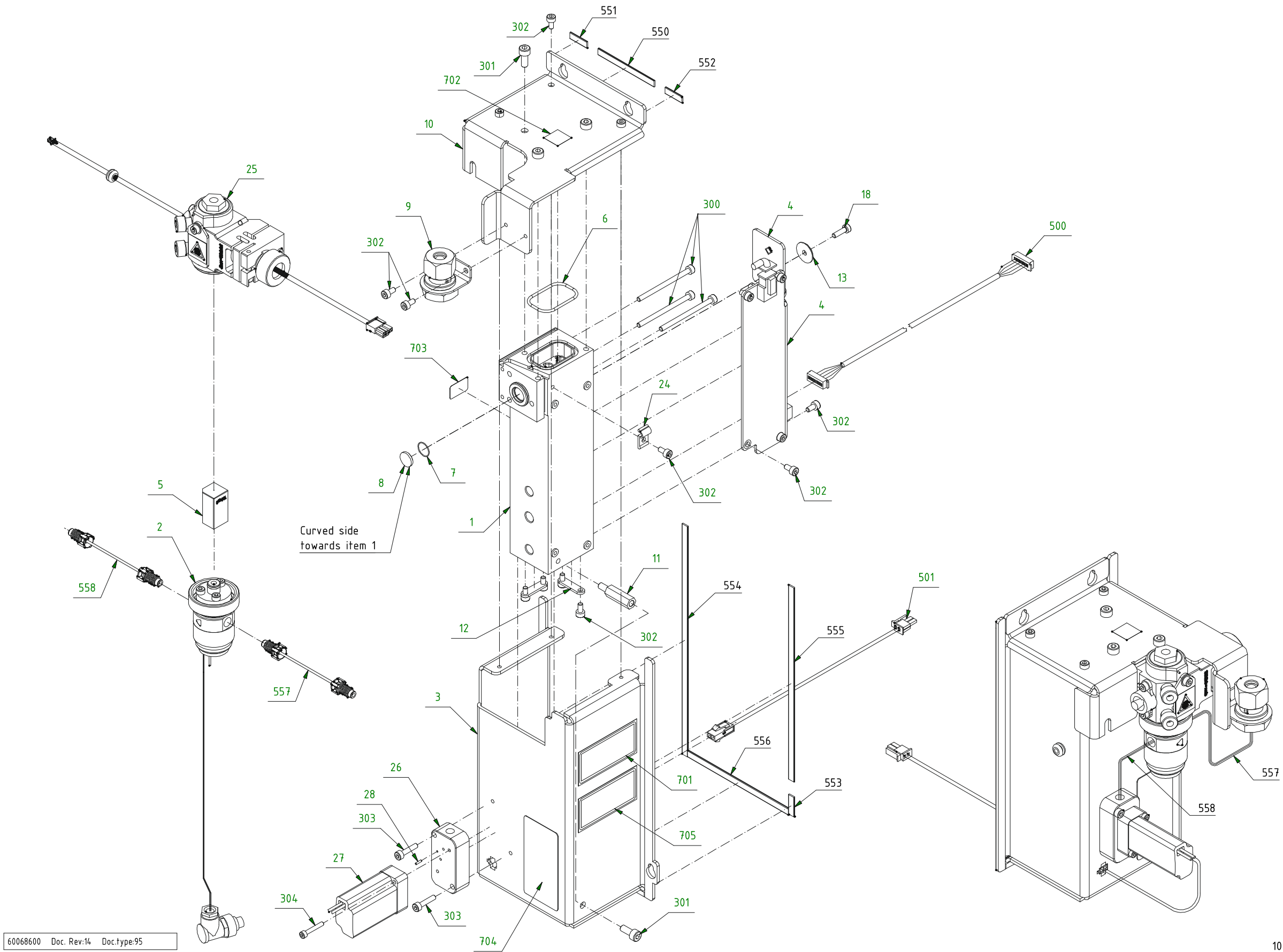
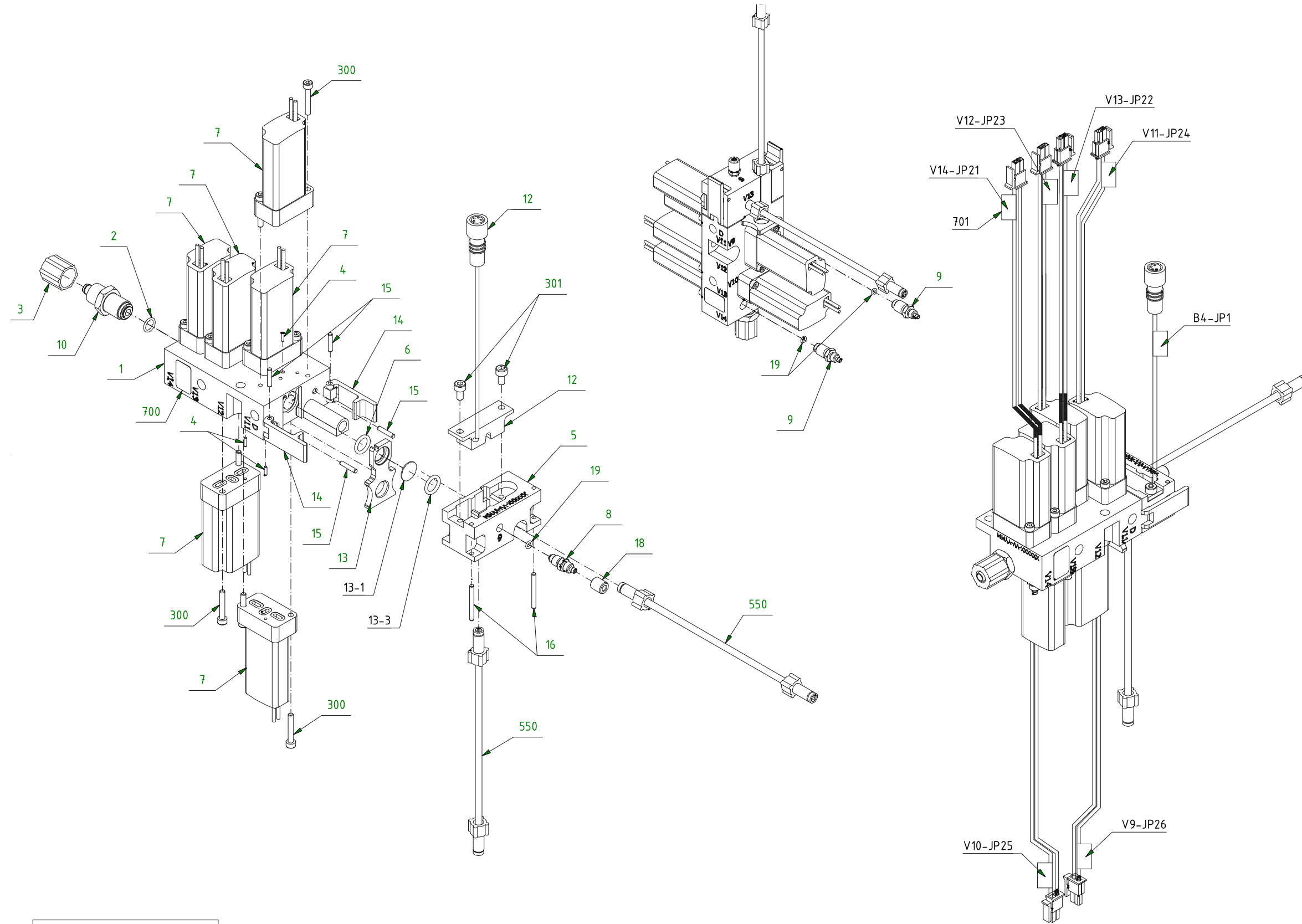


Fig. 7

## 9 Flow Manifold Assy

**Drawing No.:** 60070882      **Page:** 150

<b>Pos.</b>	<b>Part No.</b>	<b>Description</b>	<b>Prod. No.</b>
2	60058959	O-ring ø005.50xø1.00 NBR 70Shore	
6	00368357	O-ring	
7	60072403	Valve cpl	
12	60080334	Sensor optical Ø1/8" tube M8 4-way L=100	
13-1	00278754	Filter net	
13-3	00368357	O-ring	
301	00227348	Allen screw M03.0x006	
550	60070955	Tube ø1/8"/ø01.60 PTFE L=0120mm assy	



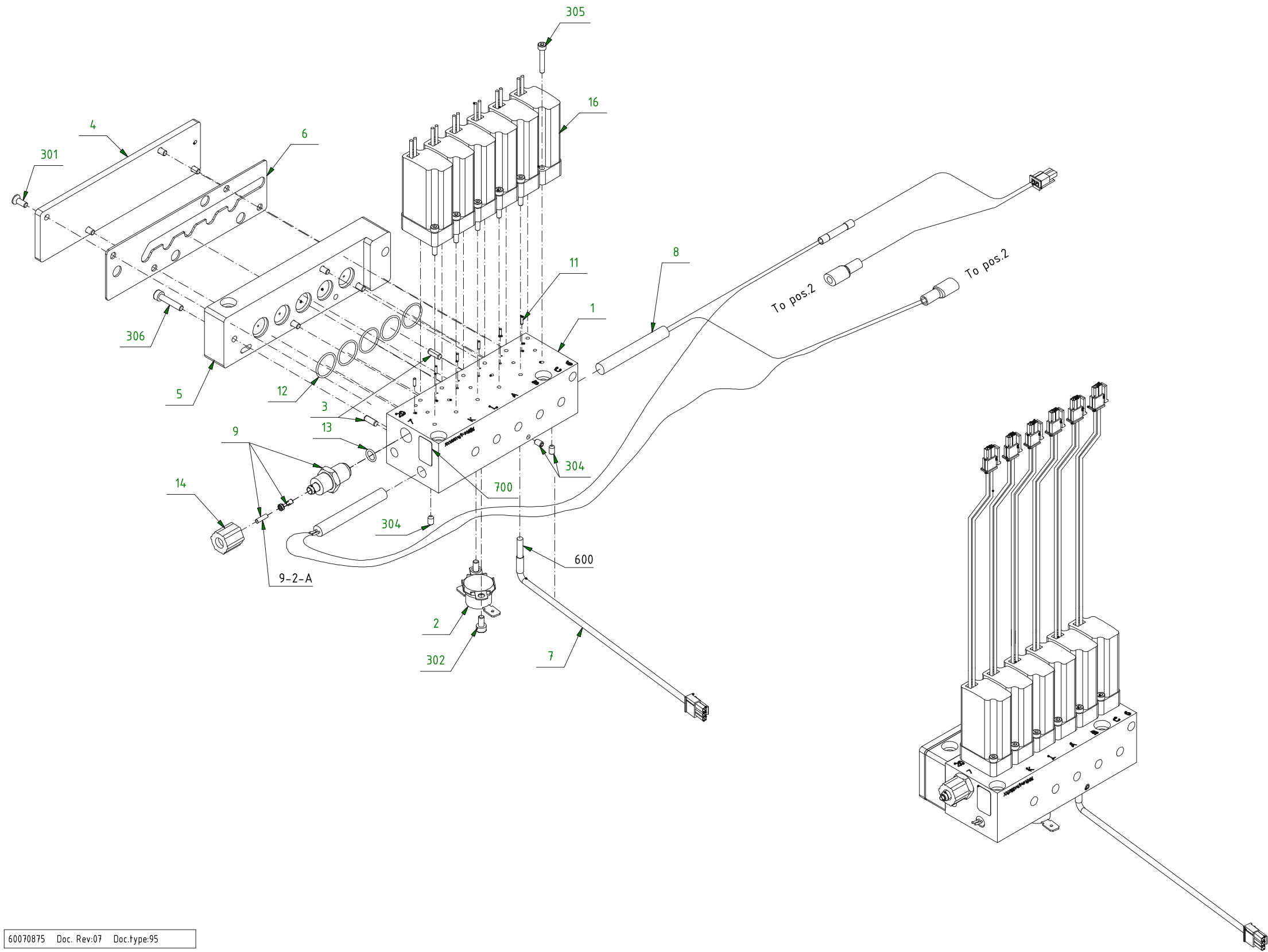
60070882 Doc. Rev:08 Doc.type:95

Fig. 8

## 10 Incubation Chamber Assy

**Drawing No.:** 60070875      **Page:** 200

<b>Pos.</b>	<b>Part No.</b>	<b>Description</b>	<b>Prod. No.</b>
1	60069504	Incubation chamber/Rinse manifold block	
2	00234898	Thermostat	
6	60077650	Incubation Chamber Top Lid Gasket	
7	60078431	Thermistor L=165 Cpl	
8	60074505	Heating Cartridge cpl	
9	60073991	FLC Filter With Festo Connection	
9-2-A	01055040	Inlinefilter 42µ (1 pc)	
12	00368340	O-ring	
13	60058959	O-ring ø005.50xø1.00 NBR 70Shore	
16	60072403	Valve cpl	



60070875 Doc. Rev:07 Doc.type:95

Fig. 9

## 11 Rinse Chamber Module

**Drawing No.: 60072400**      **Page: 250**

3	60075273	O-ring Ø062.00XØ1.500 NBR 70 Shore	
5	00234898	Thermostat	
7	60058959	O-ring ø005.50xø1.00 NBR 70 Shore	
8	60083253	O-ring ø013.00xø1.20 NBR 70 shore	
9	60049916	O-ring Ø006.00xØ0.75 EPDM 70SH	
10	60015759	O-ring Ø002.50xø1.20	
13	60067379	Hose Connection 1/4" -28 UNF (small)	
16	00349407	O-ring ø002.30/ø0.90 NBR 70	
20	00556308	O-ring	
21	00555219	Union	
500	60074504	Heating cartridge cpl	
501	60072402	Valve Cpl	
502	60085334	Sensor liquid level cpl	
503	60067290	Sensor thermo NTC 10k# 1mm (L=200),cpl	
503-4	00555086	PTFE ø1/16"/ø1.0	
504	60078156	Sensor Pressure 3,5 bar SSIB3x5 cpl	60064837
504-1-A	60075737	O-ring ø015.60xø1.78 FKM 75shore	
505	60067279	Sensor thermo NTC 10k# 3mm cpl.	
550	60045809	Tube Tygon	00183103

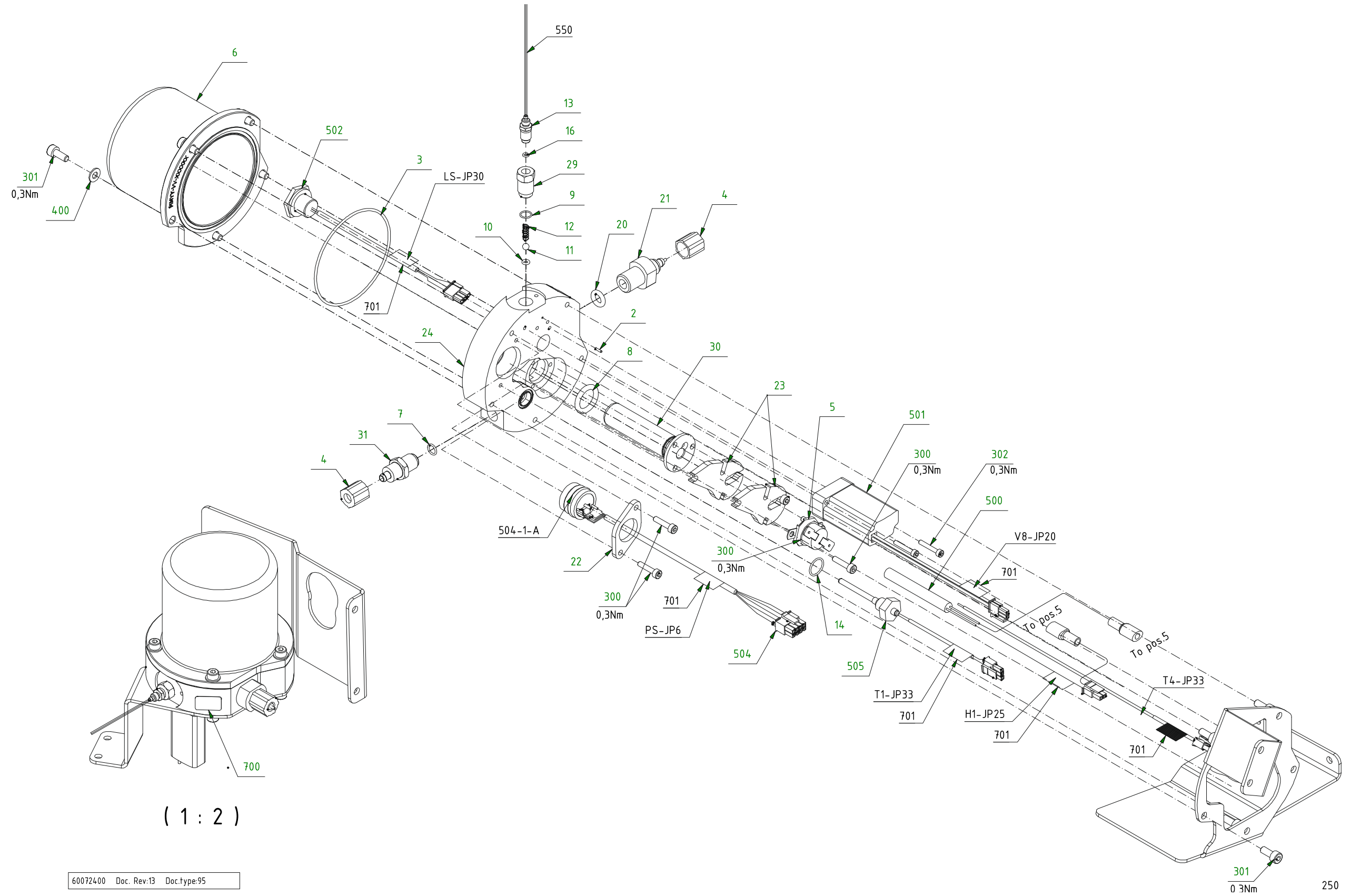
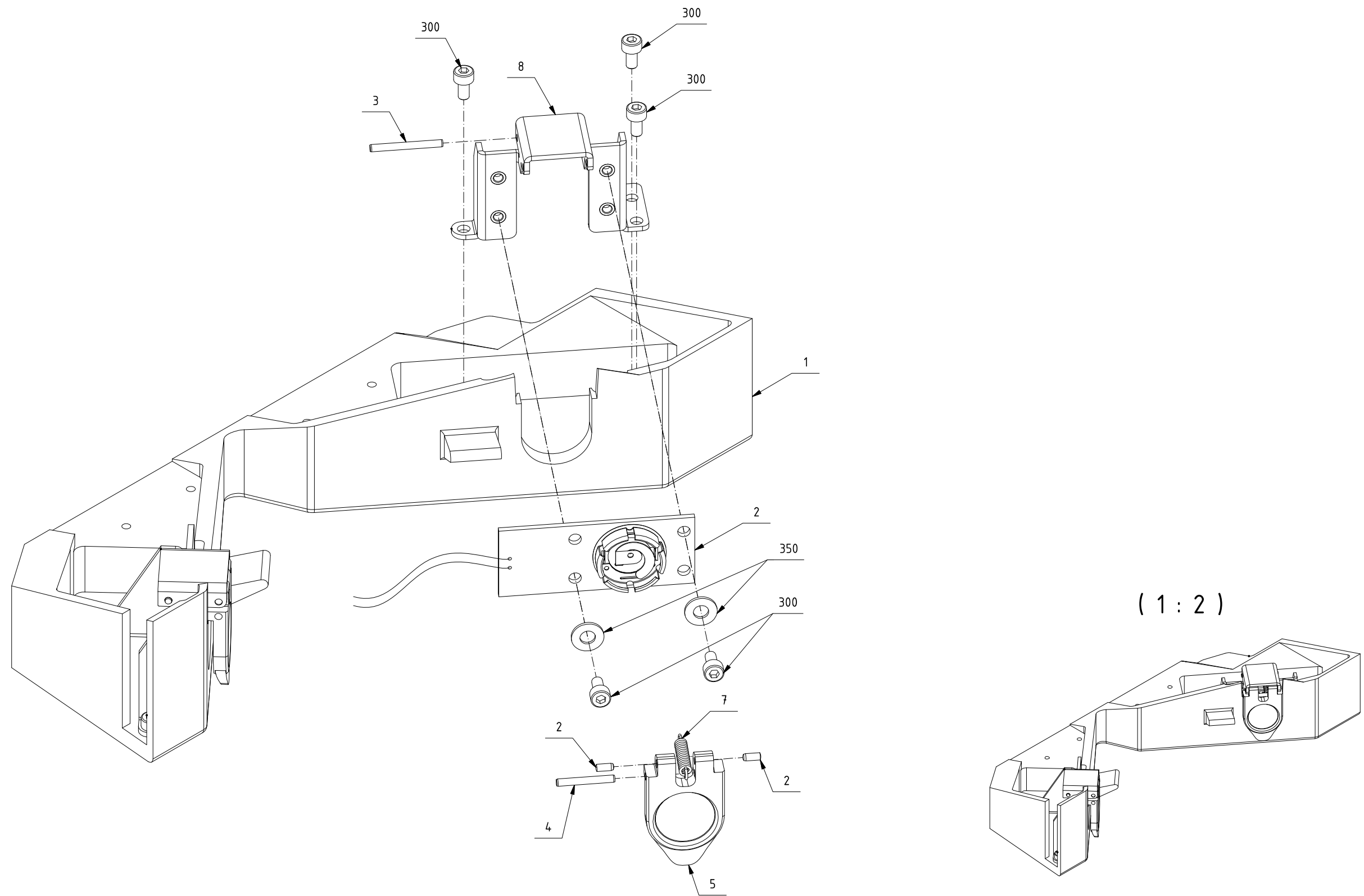


Fig. 10

## 12 Bag Holder Assembly

**Drawing No.:** 60074205      **Page:** 300

<b>Pos.</b>	<b>Part No.</b>	<b>Description</b>	<b>Prod. No.</b>
2	01052359	Pcb assy lbutton PCB	
7	60070391	Tension spring	
300	00227348	Allen screw M03.0x006	
350	00182782	Washer	



50074205 Doc. Rev:03 Doc.type:95

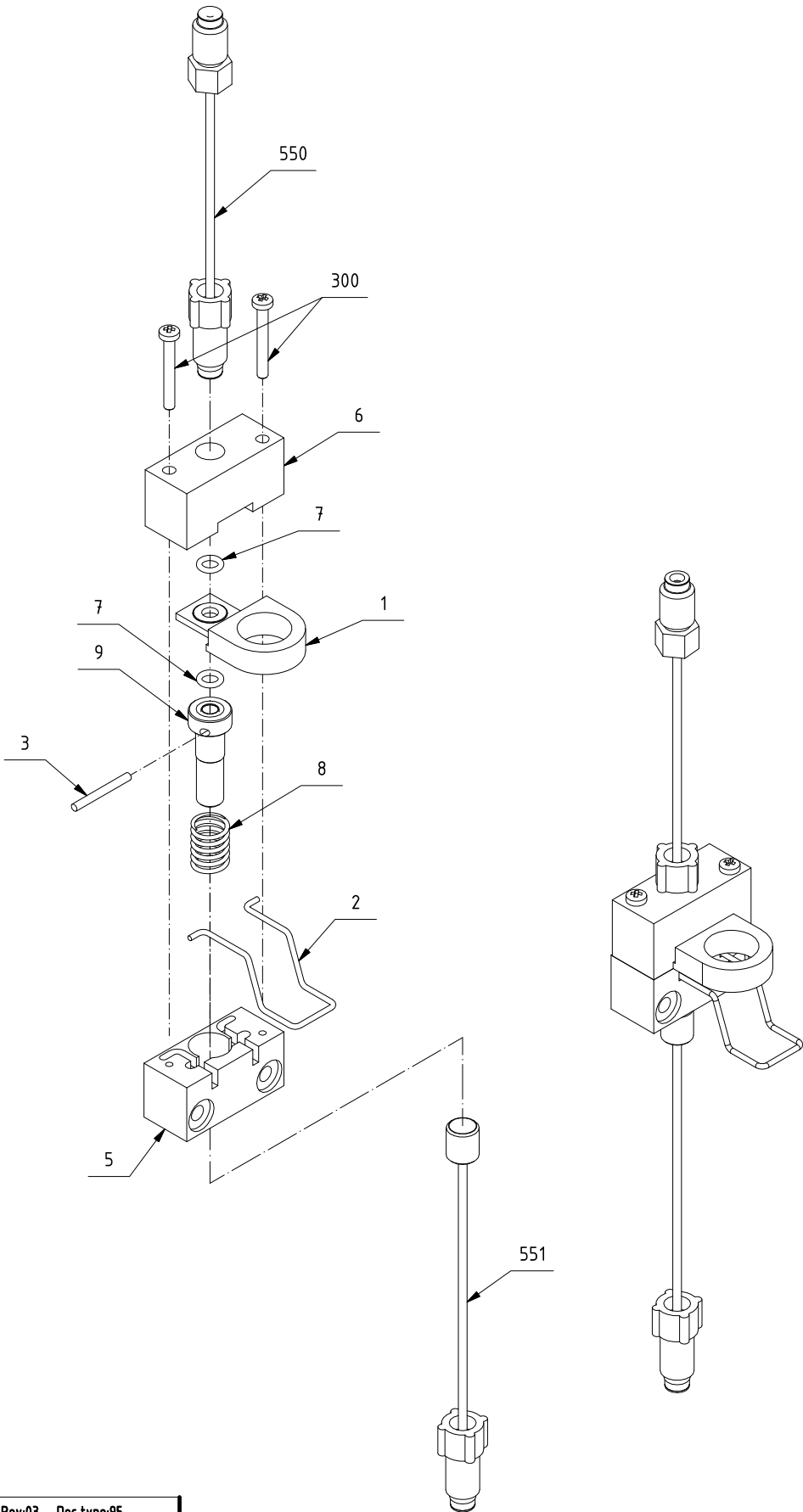
Fig. 11

300

## 13 Inline Filter - Version 1

**Drawing No.:** 60069589      **Page:** 350

<b>Pos.</b>	<b>Part No.</b>	<b>Description</b>	<b>Prod. No.</b>
1	01015607	Filter	
7	00198499	O-ring Ø003.00xØ1.00 Nitrile p5	
8	60071721	Spring Ø0.8/Dm6.3/15.5 Lesjofors 5942	
300	00820076	Screw m2x16	
550	60084404	Tube ø01.00/ø01/16" PTFE L=0130mm assy	
551	60072595	Tube ø01.00/ø1/16" for Inline filter	



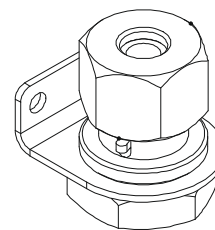
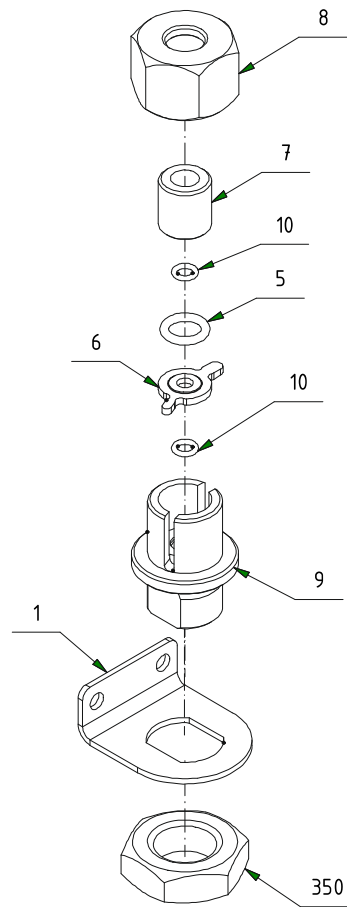
60069589 Doc. Rev:03 Doc.type:95

## 14 Inline Filter - Version 2

**Drawing No.: 60082285      Page: 350**

**Pos.Part No.DescriptionProd. No.**

5	60068563	O-ring ø006.10xø1.60 NBR 70 SH	
6	60083635	Filter 100µ/ø3	60082283
7	60082280	Inline Filter Connector	
9	60082271	Inline Filter Holder	
10	00198499	O-ring Ø003.00xØ1.00 Nitrile p5	
350	60076548	Hex Nut M14.0 SS A2 DIN 439B	



60082285 Doc. Rev:02 Doc.type:95

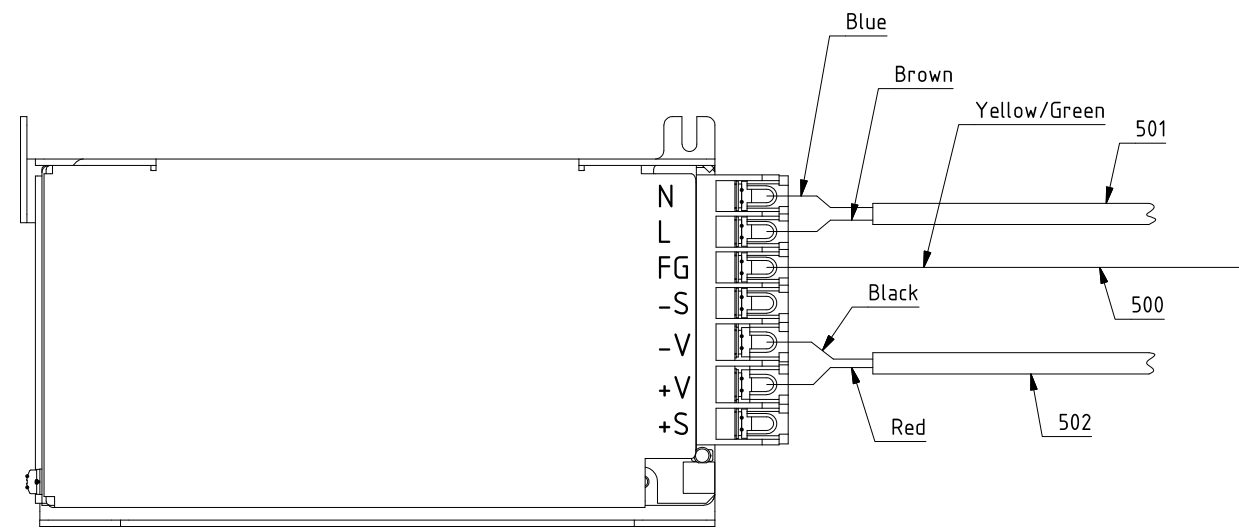
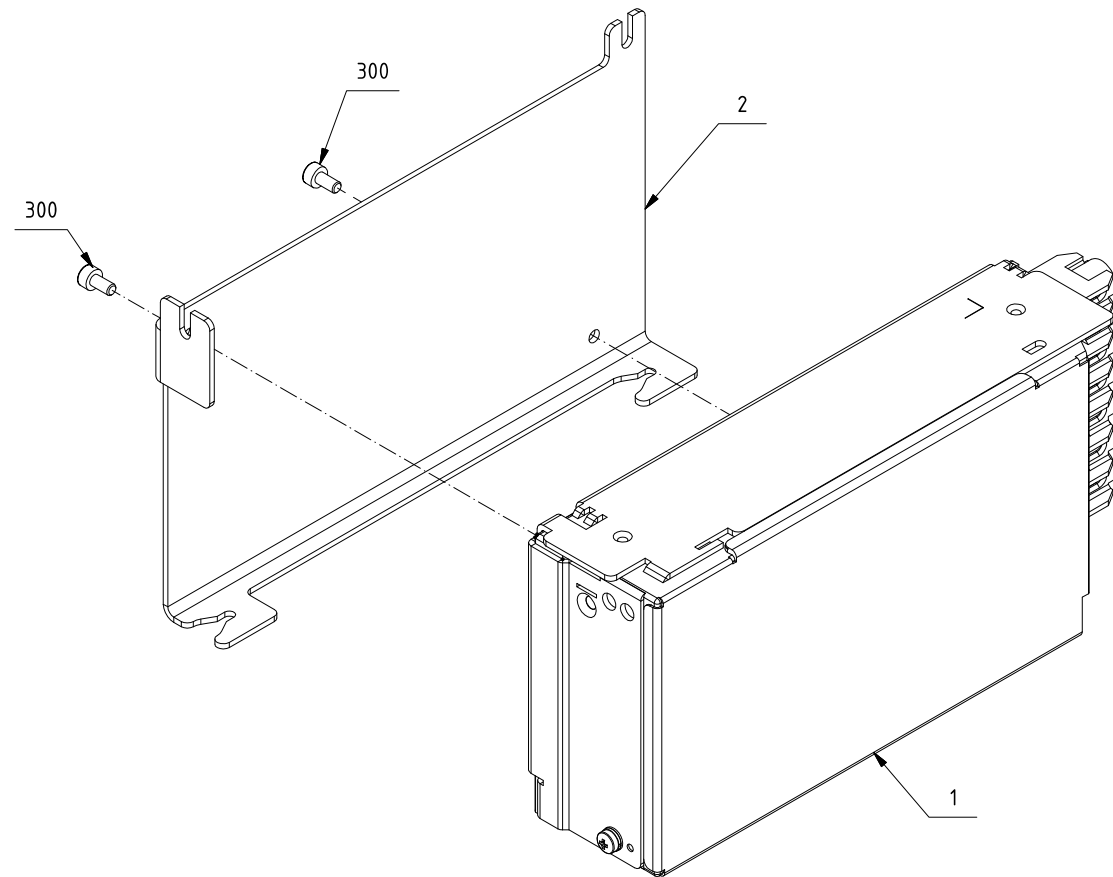
350

*Fig. 12*

## **15 Power Supply Assy**

**Drawing No.: 60074651      Page: 400**

<b>Pos.</b>	<b>Part No.</b>	<b>Description</b>	<b>Prod. No.</b>
500	60064347	Cable Yellow/Green L=160 # 1x0.75 UL	
501	60077307	Cable PSU Brown/Blue	
502	60077308	Cable Power Supply UL	



60074651 Doc. Rev:03 Doc.type:95

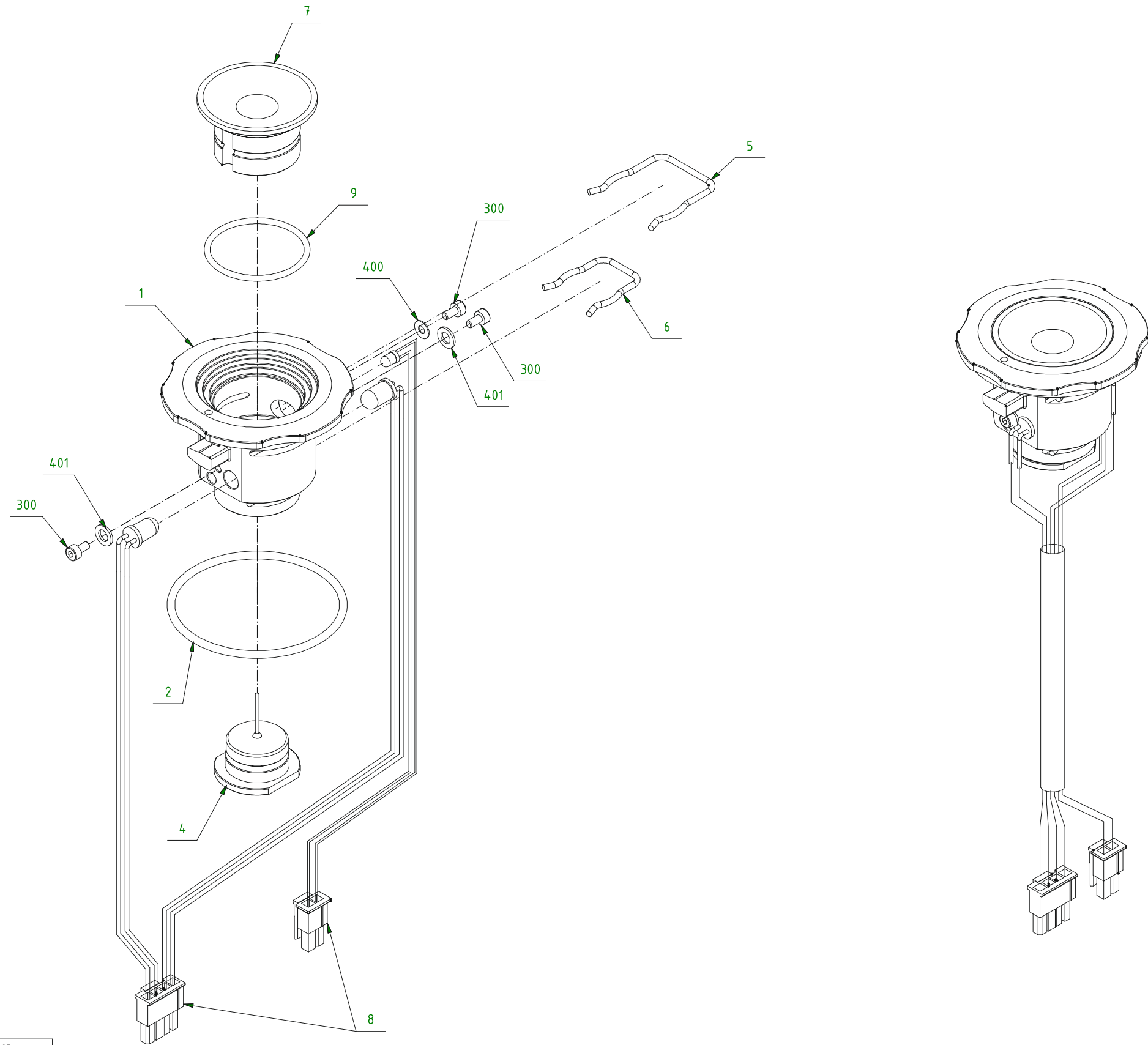
400

Fig. 13

## 16 Bag Connector Machined Assy w. Detector

*Drawing No.:* 60078141      *Page:* 450

<b>Pos.</b>	<b>Part No.</b>	<b>Description</b>	<b>Prod. No.</b>
2	60078409	O-ring ø042.00xø2.00 NBR 70 shore	
4	60069923	Bag Needle Cpl.	
8	60072301	Cable Bag Connector Assy	
9	60078420	O-ring ø024.00xø1.50 NBR 70 shore	
300	15320133	SKRUV MC6S M2X4 A2	
401	00012757	Washer	



60078141 Doc. Rev:04 Doc.type:95

450

Fig. 14

**17 Basic Unit****Drawing No.: 60069810****Page: 500-1**

<b>Pos.</b>	<b>Part No.</b>	<b>Description</b>	<b>Prod. No.</b>
1-2	60070354	Hinge bracket Cpl	
1-3	60070356	Hinge adjustment bracket Cpl	
1-5-2	60077618	Side Door Hook	
1-5-3	60072448	Snap-Lock	
1-5-350	15370043	Nut M4	
1-7	60070330	Front Lid Assembly	
1-8	60072268	Front Lid bar Cpl	
1-10	60075129	Doorsensor with cable	
1-12	60077638	Flange bearing GFM-0405-04	
6	00551127	Union	
27	60072630	Optical sensor w. cable	
44	60075507	Linear unit with cable	
47	60075406	Heat fan with cable	
58	60079434	Touch and display module PCB/long cable	60074827
61	60073733	Sensor thermo Cpl	
84	60076627	Angle alignment slide bearing	
301	00373365	Allen Screw M02.5x010	
305	00227348	Allen screw M03.0x006	

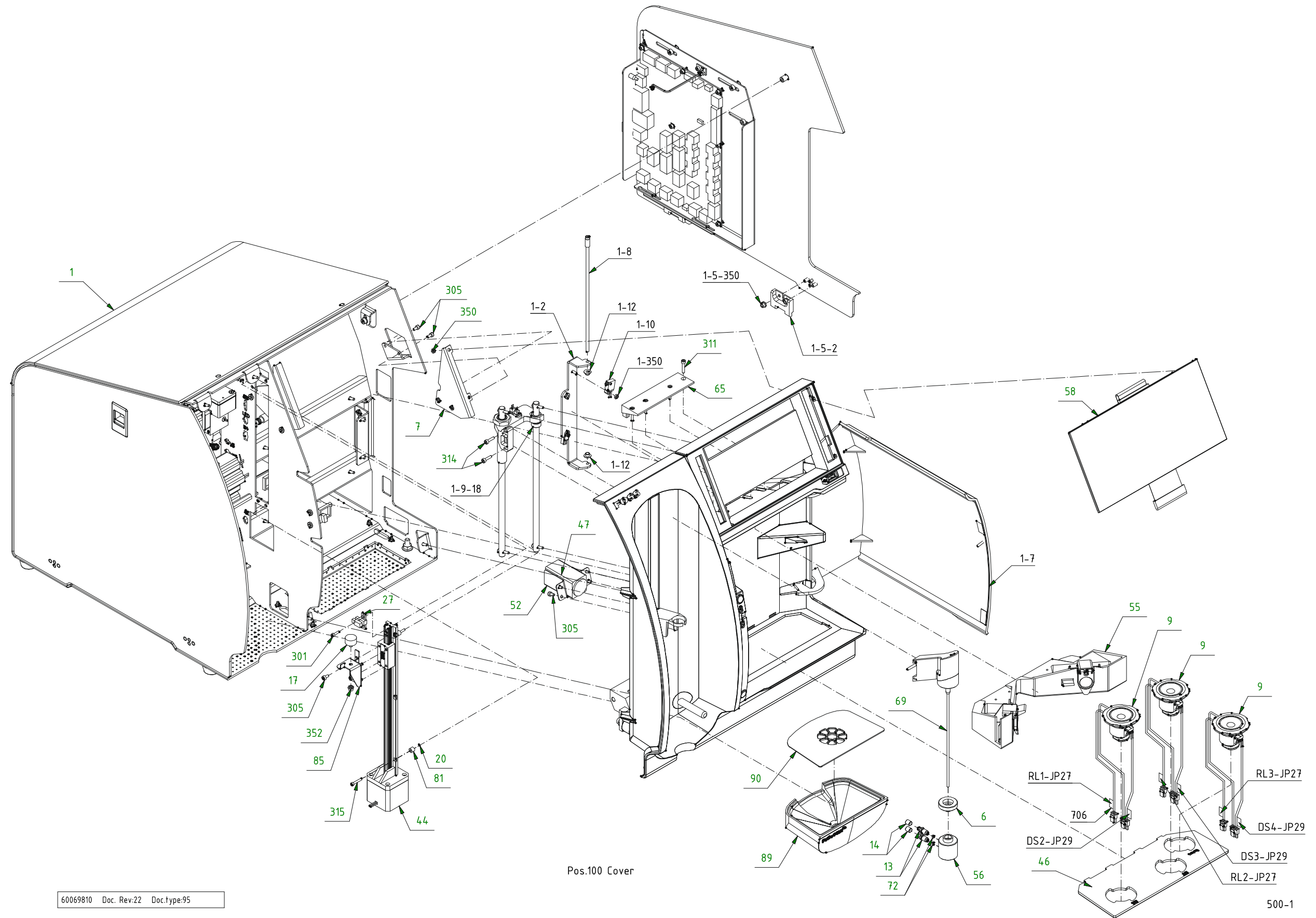
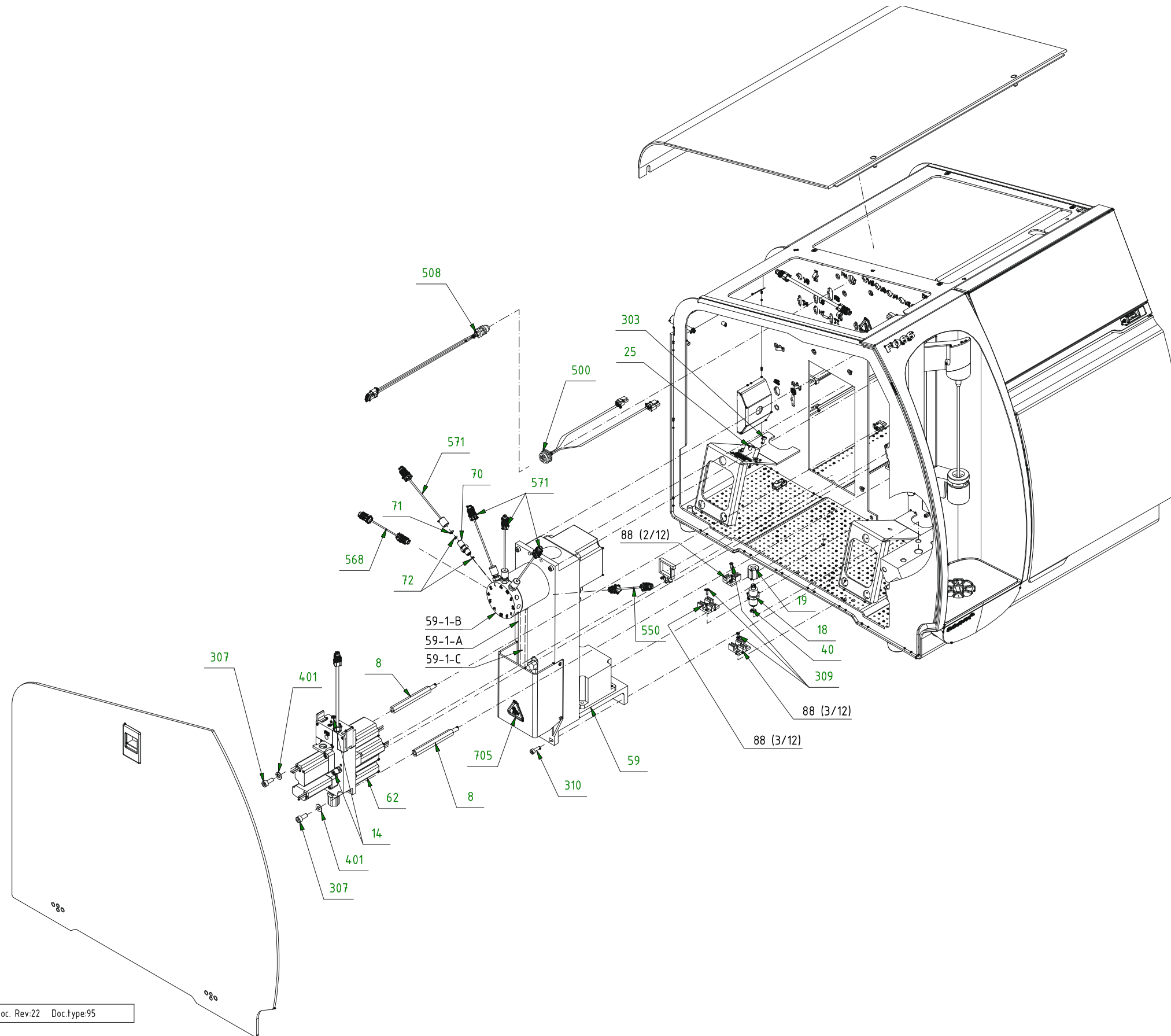


Fig. 15

## 18 Basic Unit

**Drawing No.:** 60069810      **Page:** 500-2

<b>Pos.</b>	<b>Part No.</b>	<b>Description</b>	<b>Prod. No.</b>
25	60072582	Tube Liquid sensor w. cable	
59	60083239	Pump Nx6 Cpl with cover	60074639
59	60085244	NX6 pump drive unit	
59-1-A	60071683	Syringe 2.5 ml for NX6	
59-1-B	60071682	Share valve 12-Way	
59-1-C	60077092	Plunger rod assembly	
59-1-D	60069624	O-ring ø002.20/ø1.60 FPM 80	
70	60076198	Aperture disc holder	
71	00550459	Disc	
72	00349407	O-ring Ø002.30xØ0.90 NBR 70 shore	
303	00189449	Allen screw	



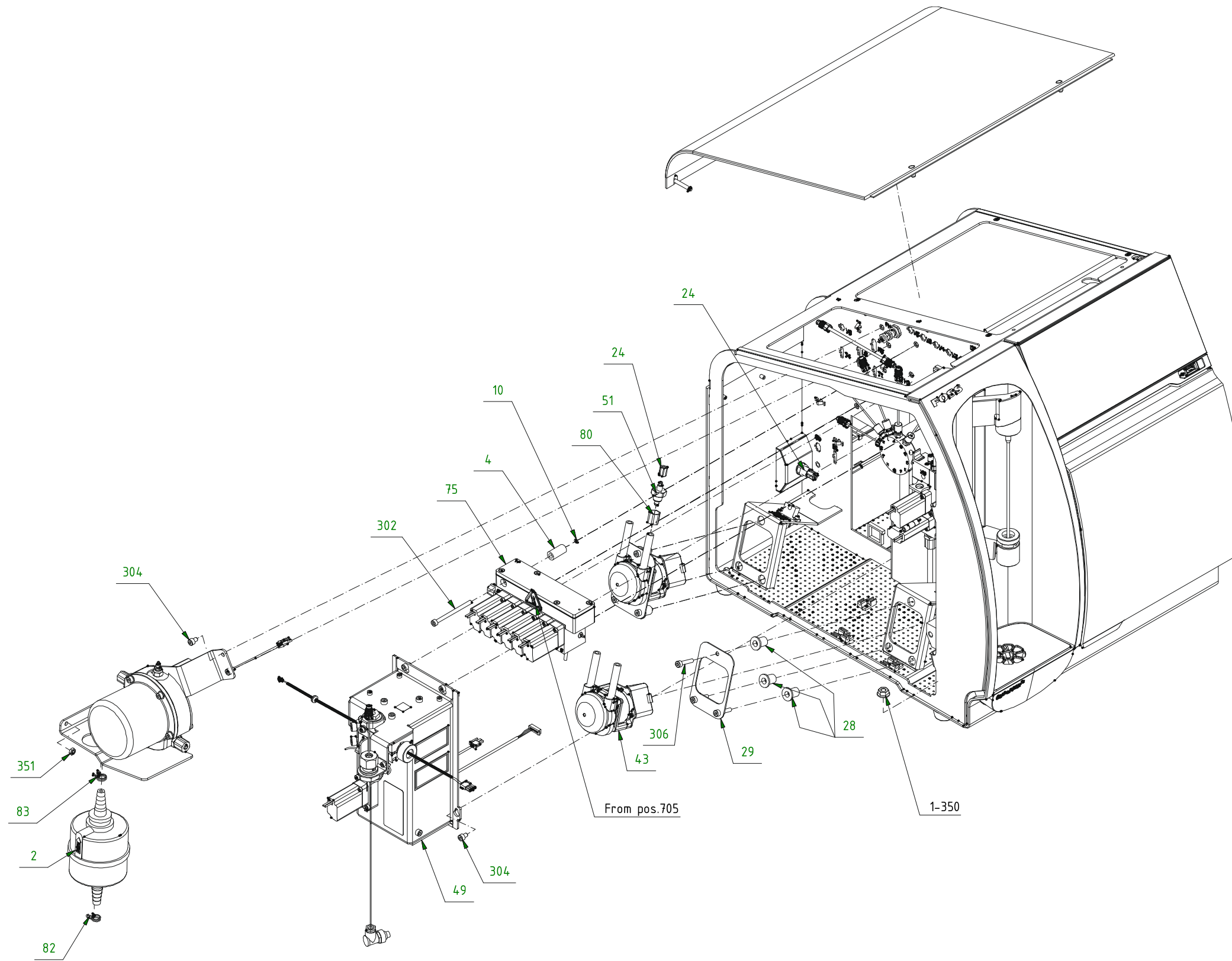
60069810 Doc. Rev.22 Doc.type:95

500-2

Fig. 16

**19 Basit Unit****Drawing No.: 60069810      Page: 500-3**

<b>Pos.</b>	<b>Part No.</b>	<b>Description</b>	<b>Prod. No.</b>
1-351	60050304	Hex flange nut M6	
2	00556373	Filter	
24	00508994	Grommet	
28	60073933	Vibration Dampening Bushing	
43	60074853	Peristaltic Pump Cpl	
49	60079436	FC Pontos short FL IBC module	60068600
51	60075186	ID6 to ID2 Tube Connector	
306	00201137	Allen screw M04.0x020	



60069810 Doc. Rev:22 Doc.type:95

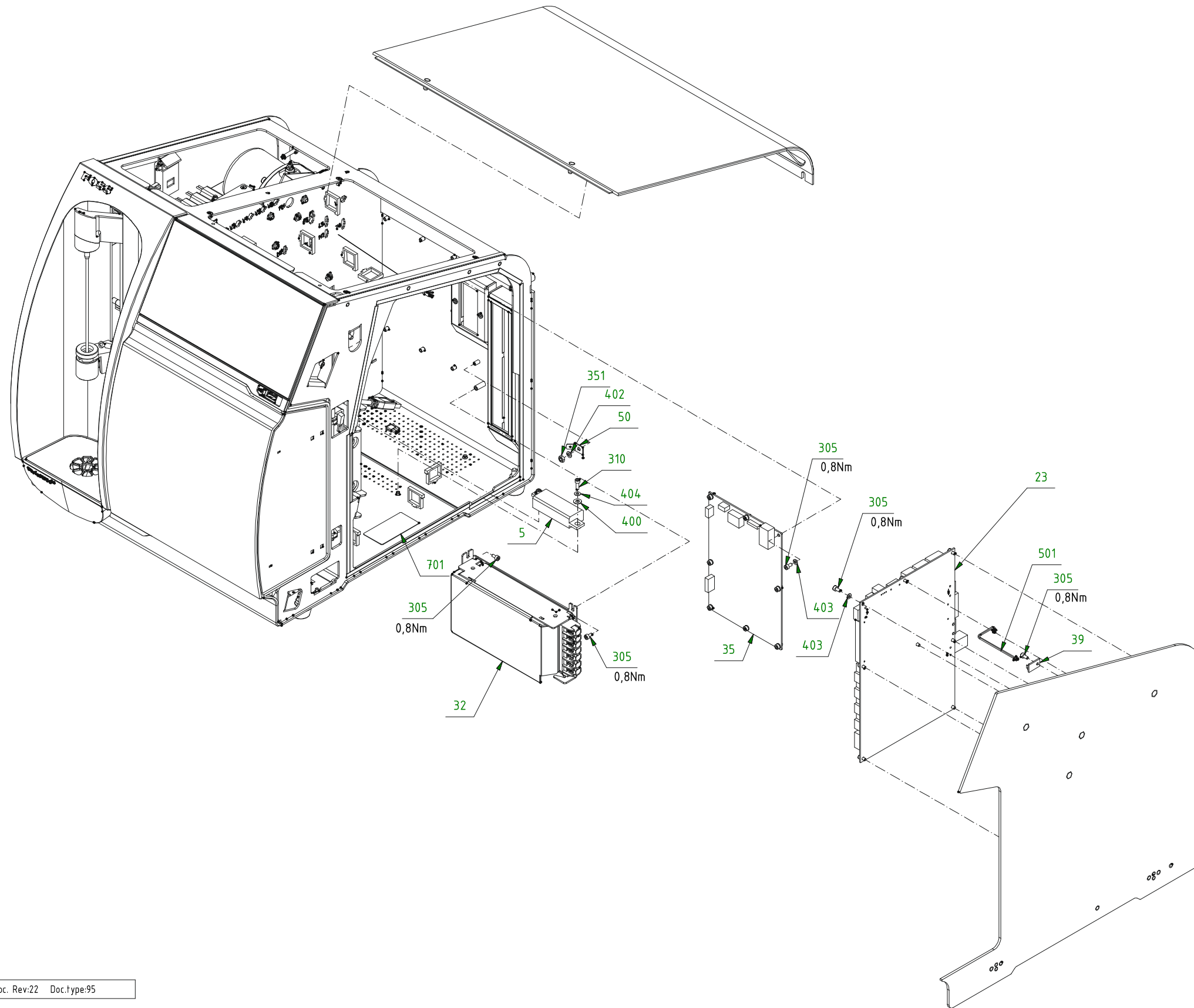
500-3

Fig. 17

## 20 Basic Unit

**Drawing No.:** 60069810      **Page:** 500-4

<b>Pos.</b>	<b>Part No.</b>	<b>Description</b>	<b>Prod. No.</b>
23	60079435	Pcb assy Control PCB	01052307
32	60074651	Power Supply Assy	
35	01052173	Pcb assy FC Control PCB FM7	
403	00299313	Washer	



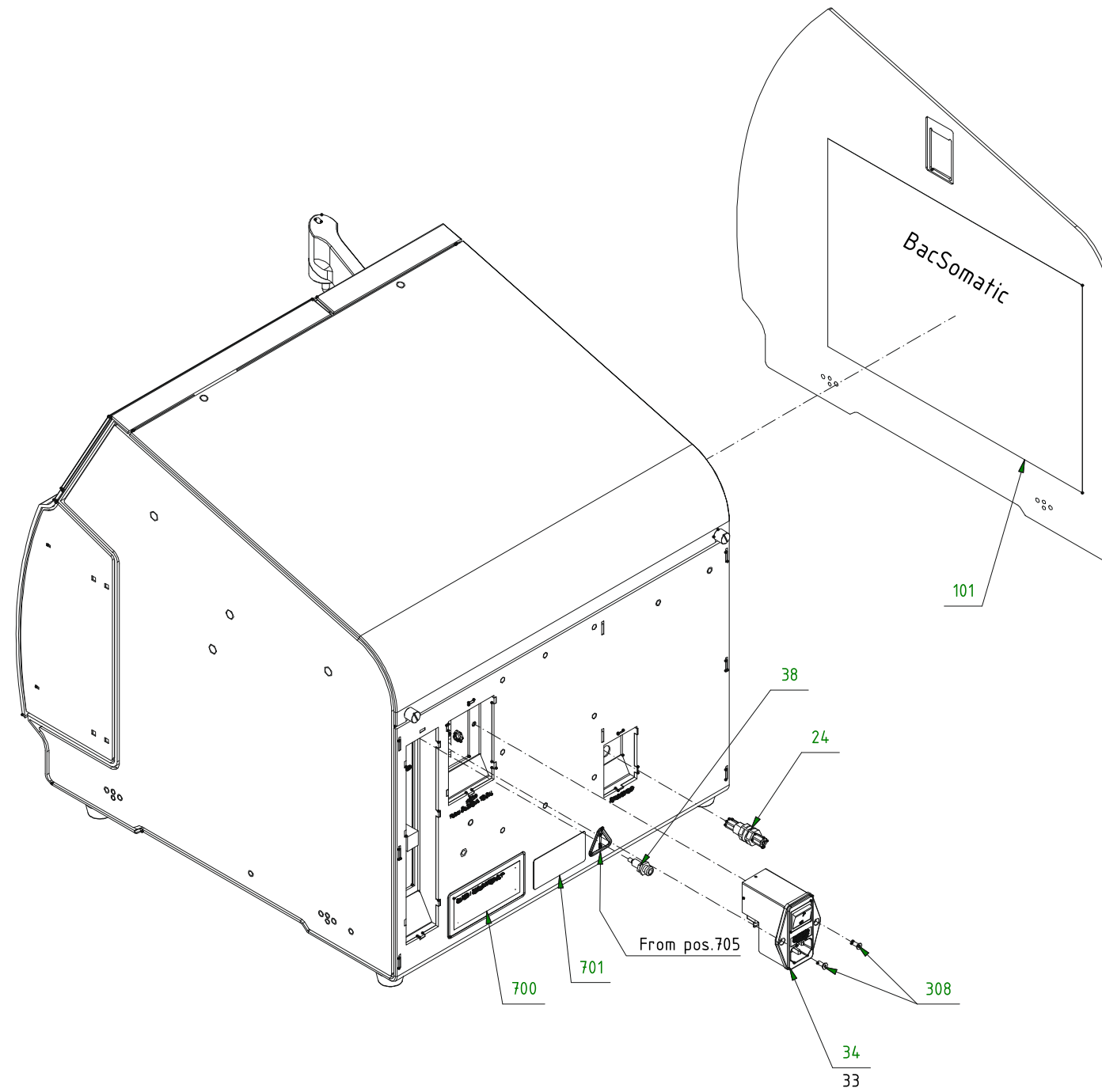
60069810 Doc. Rev:22 Doc.type:95

500-4

Fig. 18

**21 Basic Unit****Drawing No.: 60069810**      **Page: 500-5**

<b>Pos.</b>	<b>Part No.</b>	<b>Description</b>	<b>Prod. No.</b>
33	60037416	Fuse 02.00A SLOW Size 20x5.0	
34	60055370	Mains Inlet	



60069810 Doc. Rev:22 Doc.type:95

500-5

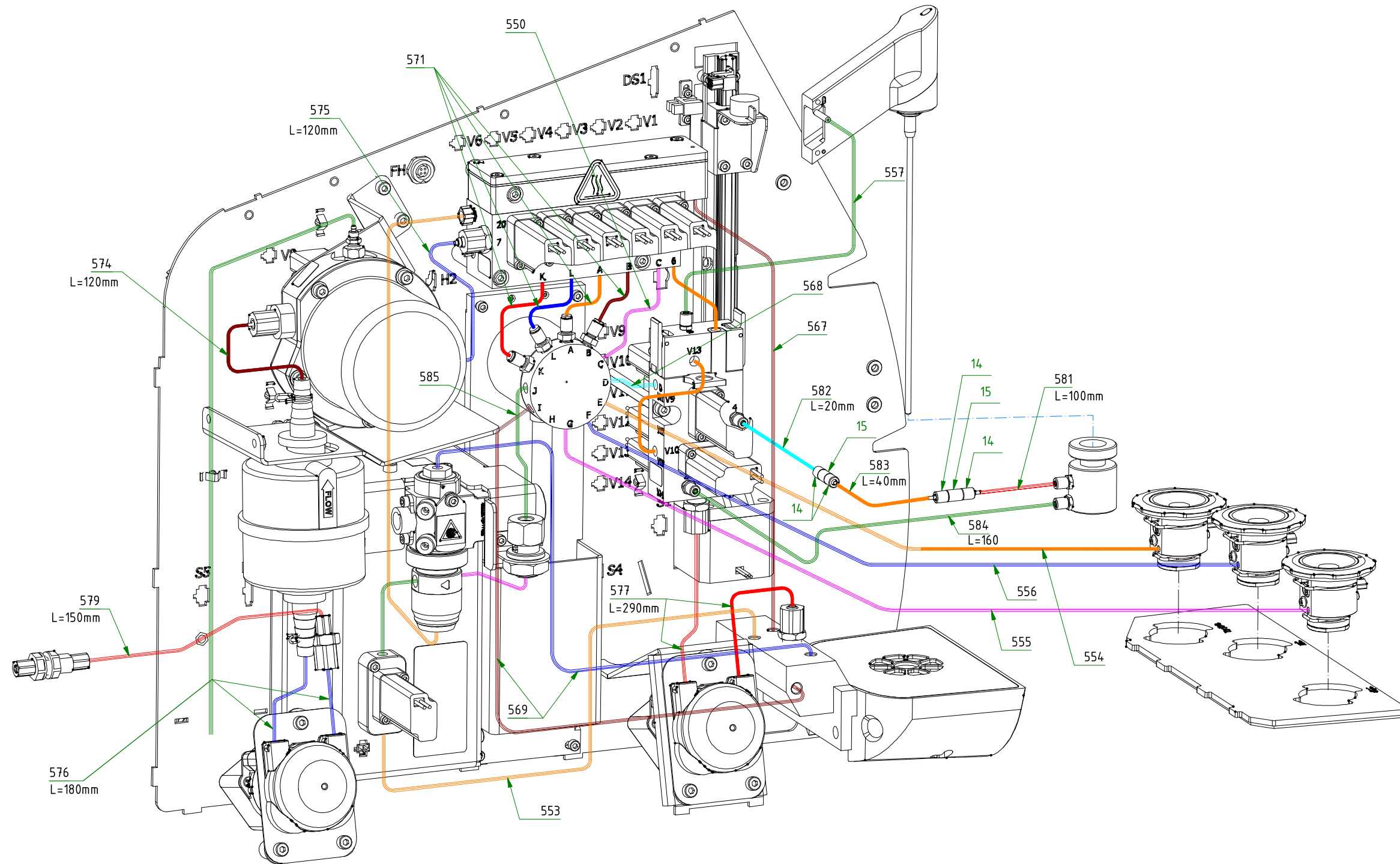
Fig. 19

## 22 Basic Unit, Tube Connection

**Drawing No.:** 60069810

**Page:** 500-6

Pos.	Part No.	Description	Prod. No.
550	60073175	Tube $\varnothing$ 01.00/ $\varnothing$ 01/16" PTFE L=0095mm assy	
553	60073206	Tube $\varnothing$ 1/8"/ $\varnothing$ 01.60 PTFE L=0450mm assy	
554	60070960	Tube $\varnothing$ 1/16"x00.50 FEP L=0550mm assy	
555	60070958	Tube $\varnothing$ 1/16"x01.00 FEP L=0450mm assy	
556	60070959	Tube $\varnothing$ 1/16"x01.00 FEP L=0550mm assy	
557	60045809	Tube Tygon	00183103
567	60076219	Tube $\varnothing$ 1/8"/ $\varnothing$ 01.60 PTFE L=0300mm assy	
568	60070953	Tube $\varnothing$ 01.00/ $\varnothing$ 01/16" PTFE L=0080mm assy	
569	60073207	Tube $\varnothing$ 1/8"/ $\varnothing$ 01.60 PTFE L=620mm assy	
571	60076199	Tube $\varnothing$ 01.0/ $\varnothing$ 01/16" for aperture disc	
573	60084405	Tube $\varnothing$ 1/8"/ $\varnothing$ 01.60 PTFE L=0350mm assy	
574	60045822	Silic. $\varnothing$ 4x7	00094789
575	60045822	Silic. $\varnothing$ 4x7	00094789
576	60081073	Tube BPT Cream 3/16" ID x 5/16" OD	60078634
577	60081073	Tube BPT Cream 3/16" ID x 5/16" OD	60078634
579	60055301	Tube $\varnothing$ 02.50/04.50 PVC blue trans L=3mSP	00528570
581	60045809	Tube Tygon	00183103
582	60045809	Tube Tygon	00183103
583	60045809	Tube Tygon	00183103
584	60045809	Tube Tygon	00183103
585	60084404	Tube $\varnothing$ 01.00/ $\varnothing$ 01/16" PTFE L=0130mm assy	



60069810 Doc. Rev:22 Doc.type:95

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Fig. 20

## 23 Basic Unit, EL Connection

*Drawing No.:* 60069810      *Page:* 500-7

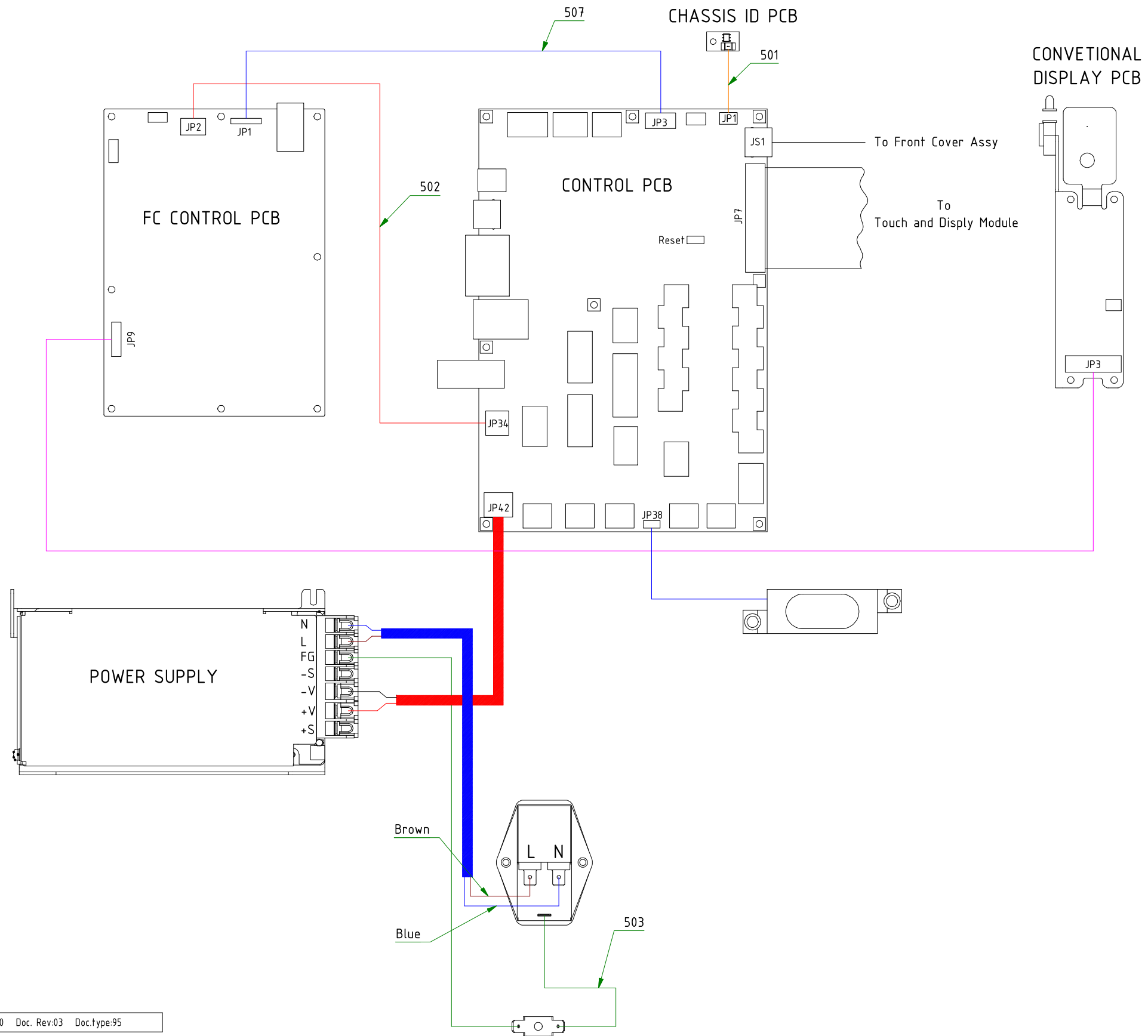
<b>Pos.</b>	<b>Part No.</b>	<b>Description</b>	<b>Prod. No.</b>
500	60077062	Cable inlet heater bulkhead to PCB cpl	
505	60072594	Cable harness Power	
506	60072593	Cable harness Signal	
508	60075218	Cable sensor optical bulkhead to pcb cpl	



## 24 Basic Unit, EL Connection

**Drawing No.:** 60069810      **Page:** 500-8

<b>Pos.</b>	<b>Part No.</b>	<b>Description</b>	<b>Prod. No.</b>
501	60023887	Cable Chassis ID PCB L=90 #2x0,25 UL	
502	60077393	Cable FC Control Power	
503	60077306	Cable Yellow/Green	
507	60076523	Flat cable 8 pol.	



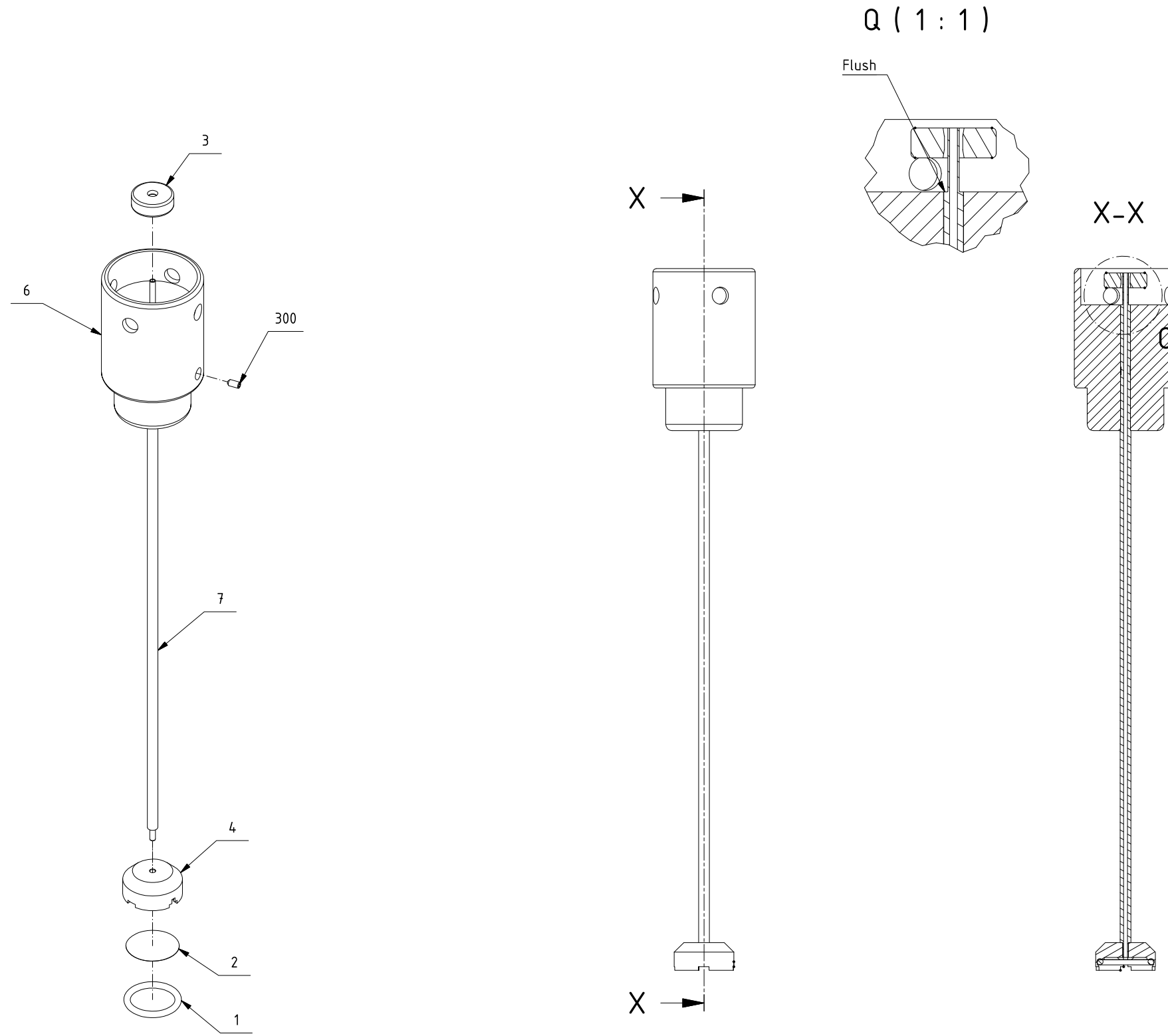
60069810 Doc. Rev:03 Doc.type:95

Fig. 22

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**25 Pipette F Liquid Container 273 mm  
Assy****Drawing No.: 60072438      Page: 600**

<b>Pos.</b>	<b>Part No.</b>	<b>Description</b>	<b>Prod. No.</b>
1	00301853	O-ring	
2	00216523	Filter	
3	00533893	Tube squeezer	



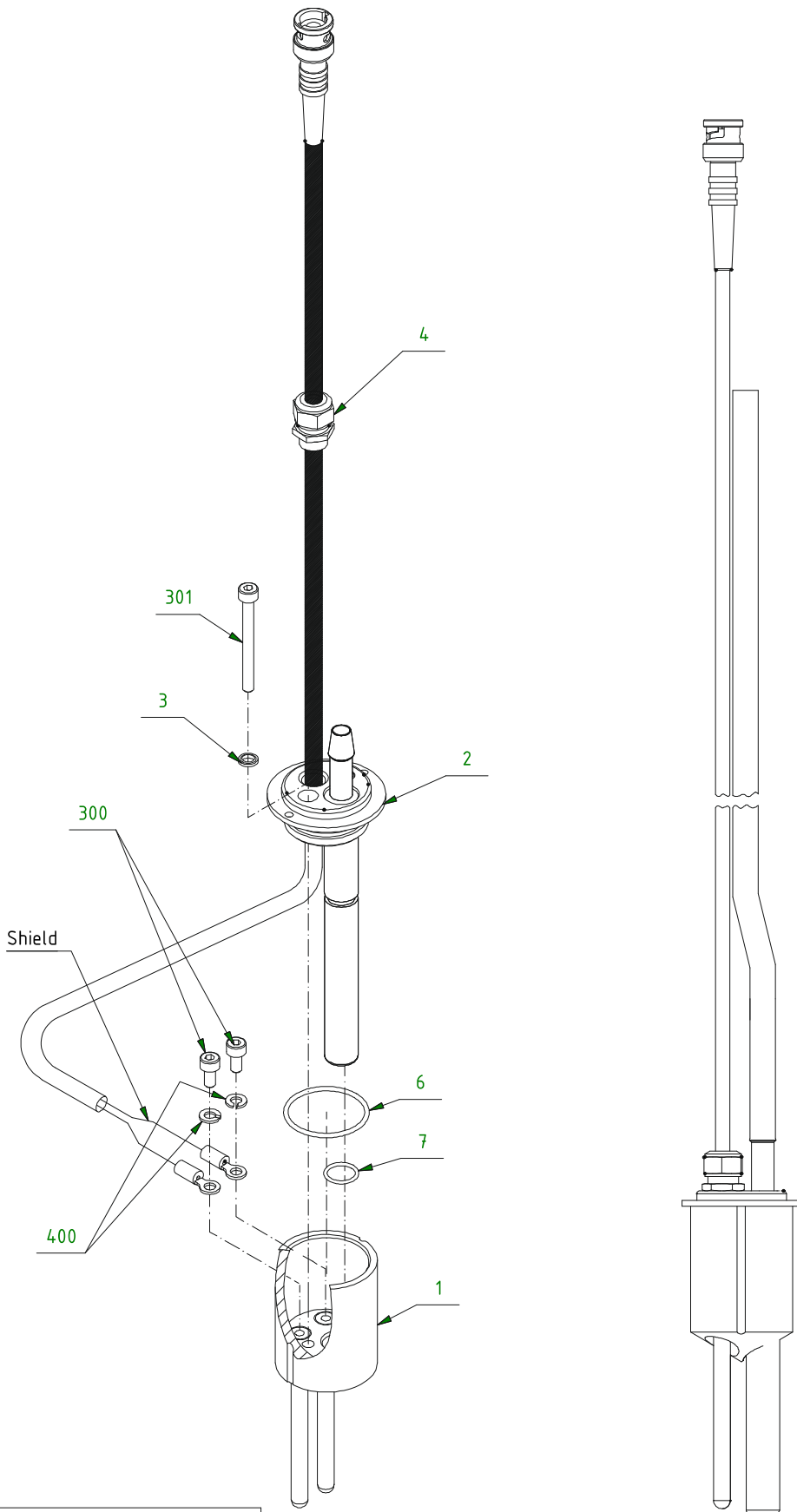
60072438 Doc. Rev:02 Doc.type:95

600

Fig. 23

**26 Waste Unit****Drawing No.: 60077355      Page: 650**

<b>Pos.</b>	<b>Part No.</b>	<b>Description</b>	<b>Prod. No.</b>
3	00158808	U-ring	
4	60079211	Cable Waste Liquid	
6	00390120	O-ring	
7	00302851	O-ring ø010.00xø1.30	
300	00710624	Allen screw	
301	00194282	Screw m4x40	
400	00109108	Springwasher	
550	60068014	Tube øø 06.0/09.0 Silicone	



60077355 Doc. Rev:04 Doc.type:95

650

Fig. 24





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