

SRP

Service instructions



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1. Symbols used in this document

**Warning**

*If these safety instructions are not observed,
it may result in personal injury.*

**Warning**

*These instructions must be observed for
explosion-proof pumps. It is advisable also to
follow these instructions for standard pumps.*

Caution

*If these safety instructions are not observed,
it may result in malfunction or damage to the
equipment.*

Note

*Notes or instructions that make the job easier
and ensure safe operation.*

2. Identification

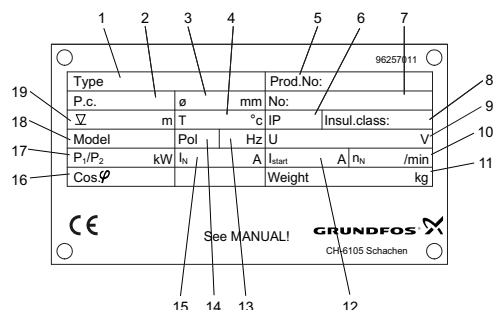
This section shows the nameplate, type key and the codes that can appear in the variant code.

Note

As codes can be combined, a code position may contain more than one code (letter).

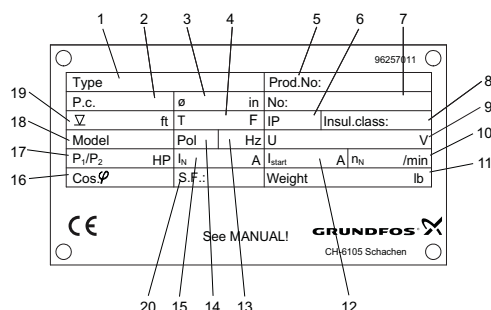
2.1 Nameplate

50 and 60 Hz



TM03 0315 3310

60 Hz North America



TM04 9249 1037

Pos.	Description
1	Type designation
2	Production code
3	Propeller diameter
4	Liquid temperature
5	Product number
6	Enclosure class according to IEC
7	Serial number
8	Insulation class
9	Rated voltage
10	Rated speed (propeller)
11	Weight
12	Starting current
13	Frequency
14	Number of poles
15	Rated current
16	Power factor
17	Motor power P1/P2
18	Model
19	Maximum installation depth

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1	Type designation
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11	Weight
12	Starting current
13	Frequency
14	Number of poles
15	Rated current
16	Power factor
17	Motor power P1/P2
18	Model
19	Maximum installation depth
20	Service factor

2.2 Type key

50 and 60 Hz

Code	Example	SRP	70	30	814	25	Ex	5	1A	A
SRP	Type range Submersible recirculation pump									
70	Motor output power P2 Code from type designation/10 [kW] 7.0 kW									
30	Propeller diameter 30 cm									
814	Propeller speed 814 min ⁻¹									
25	Propeller blade pitch 25 °									
[-] Ex	Explosion protection Non-explosion-proof Explosion-proof									
5 6	Frequency 50 Hz 60 Hz									
0A 1A 0B 1B 0V 1V 0Z 1Z	Supply voltage and starting method 400 V, DOL 400 V, Y/D 400-415 V, DOL 400-415 V, Y/D 415 V, DOL 415 V, Y/D Special, DOL Special, Y/D									
[-] A B	Generation First generation Second generation Third generation									

60 Hz North America

Code	Example	SRP	11	12	524	08	6	0P
SRP	Type range Submersible recirculation pump							
11	Motor output power P2 Code from type designation/10 [hp] 1.1 hp							
12	Propeller diameter 12 inches							
524	Propeller speed 524 rpm							
08	Propeller blade pitch 8 °							
[-]	Explosion protection Non-explosion-proof							
6	Frequency 60 Hz							
0P 1P 0Z 1Z	Voltage and starting method 440-480 V, DOL 440-480 V, Y/D Special, DOL Special, Y/D							
[-] A B	Generation First generation Second generation Third generation							

3. Tools

Description	Pump type			Product number
Socket	TMFS7	Bearings in gear head	SRP.xx.30.xx, SRP.35-50.50.xx	95035458
Socket	TMFS9	Bearings in gear head	SRP.65-100.50, SRP.70-100.80, SRP.130.80	95035454
Socket	TMFS12	Bearings in gear head	SRP.120.80.xx, SRP.150-240.80.xx	95035456
TMFT 36		Bearing fitting tool kit	All	97905585

4. Tightening torques and lubricants

Pos.	Description	Quantity	Dimensions	Torque		Lubricant
				[Nm]	[ft.lbs]	
1008	Screw		M6	8.8	6.5	Loctite 243
			M8	21.4	15.8	
			M10	44	32.5	
			M12	74	54.6	
			M16	183	135	
1010	Screw	2	M6	8.8	6.5	
			M8	21.4	15.8	
			M10	44	32.5	
			M12	74	54.6	
			M16	183	135	
1020	Motor flange	1				Curil K2
1021	Screw			By hand		
1022	O-ring	2				Curil K2
1023	Terminal box cover	1				Curil K2
1024	Screw		M6	8.8	6.5	Loctite 243
			M8	21.4	15.8	
			M10	44	32.5	
			M12	74	54.6	
			M16	183	135	
1025	O-ring	1				Curil K2
1028	Screw			By hand		
1041	Screw	1	M6	8.8	6.5	Loctite 511
			M8	21.4	15.8	
			M10	44	32.5	
			M12	74	54.6	
			M16	183	135	
1044	Screw			By hand		
1049	Water-in-oil sensor	1				Loctite 511
1052	Plug	1		8	6	PTFE tape
1064	Screw		M4	3	2.2	Loctite 243
			M5	5.9	4.4	
			M6	10	7.4	
			M8	25	18.4	
			M10	49	36.1	
			M12	85	62.7	
			M16	210	154.9	
1090	Slotted nut	1		70	51.6	
1097	Wear ring	1				Loctite 648
1098	Mechanical shaft seal	Stationary part	Outside Seal face			Soapy water/cream
						Loctite 7063
		Rotating part	Inside			Soapy water/cream
1099	Screw		M6	8.8	6.5	Loctite 243
			M8	21.4	15.8	
			M10	44	32.5	
			M12	74	54.6	
			M16	183	135	
1102	Plug			By hand		PTFE tape
1104	Lip seal	Outside and inside				Shell Cassida grease
1106	Slotted nut			70	51.6	
1111	Screw		M6	8.8	6.5	Loctite 511
			M8	21.4	15.8	
			M10	44	32.5	
			M12	74	54.6	
			M16	183	135	
1158	Nut			30	22.1	

5. Oil types and quantity

Type	Oil in gearbox/shaft seal housing [l] ISO VG 68
SRP.08.30.526.	1.2
SRP.10.30.606.	
SRP.13.30.678.	
SRP.16.30.745.	
SRP.18.30.806.	
SRP.30.30.517.	
SRP.40.30.593.	
SRP.50.30.684.	
SRP.60.30.752.	
SRP.70.30.814.	
SRP.35.50.257.	
SRP.50.50.291.	2.5
SRP.65.50.343.	
SRP.80.50.378.	
SRP.100.50.412.	
SRP.70.80.263.	
SRP.100.80.303.	
SRP.120.80.323.	
SRP.130.80.340.	
SRP.130.80.375.	
SRP.160.80.355.	
SRP.180.80.387.	4.0
SRP.180.80.417.	
SRP.200.80.388.	
SRP.240.80.417.	

Type	Oil in gearbox/shaft seal housing [oz] ISO VG 68
SRP.11.12.254524.08.6.0P	40.5
SRP.15.12.628.08.6.0P	
SRP.19.12.720.08.6.0P	
SRP.26.12.805.08.6.0P	
SRP.30.12.883.08.6.1P	
SRP.40.12.513.25.6.1P	
SRP.55.12.607.25.6.1P	
SRP.75.12.722.25.6.1P	
SRP.95.12.805.25.6.1P	
SRP.48.20.254.27.6.1P	
SRP.68.20.299.27.6.1P	
SRP.95.20.363.27.6.1P	84.5
SRP.136.20.406.27.6.1P	
SRP.95.32.260.11.6.1P	84.5
SRP.163.32.308.11.6.1P	
SRP.204.32.334.11.6.1P	135.3
SRP.176.32.355.11.6.1P	
SRP.272.32.374.11.6.1P	135.3
SRP.245.32.381.11.6.1P	
SRP.326.32.418.11.6.1P	
SRP.245.32.422.11.6.1P	

6. Dismantling and assembly



Warning

Before starting any service work, remove the fuses or switch off the power supply. Make sure that the power supply cannot be accidentally switched on.

All rotating parts must have stopped moving.



Warning

All regulations applying to mixers or flowmakers installed in potentially explosive environments must be observed.

Make sure that no work is carried out in potentially explosive environment.

Before starting any work on a pump used in liquids which could constitute a hazard to health, thorough cleaning/venting of pump, tank, etc. must be carried out according to local regulations.

Spare parts

Damaged parts should always be replaced by new approved parts. Motor parts must not be reconditioned by machining, retapping, welding, etc.

6.1 General information

Position numbers of parts (digits) refer to section 7. *Sectional drawings.*

Before dismantling

- Switch off the power supply.
- Disconnect the power supply cable in accordance with local regulations.

Before assembly

- Clean and check all parts.
- Replace defective parts by new parts.
- Order the necessary service kits.
- Always replace gaskets and O-rings.

During assembly

- Lubricate and tighten screws and nuts according to section 4. *Tightening torques and lubricants.*

6.2 Dismantling

6.2.1 Propeller

1. Remove screw (pos. 1111), washer (pos. 1110), hub cover (pos. 1109) and O-ring (pos. 1108).
2. Fit an eyebolt in the threaded hole in the end of gear shaft (pos. 1093).
3. Support the venturi in upright position in such way that the SRP can be lifted out of the rack using the eyebolt.
4. Remove screws (pos. 1010) from cable clamp (pos. 1015) and remove cable from the clamp.
5. Remove the pump from the rack.
6. Lift the pump out of the rack by means of a crane and the eyebolt.
7. Place the pump in horizontal position.
8. Remove plug (pos. 1102).
9. Remove plug (pos. 1101) and drain the oil into a suitable container.
10. Unlock lock washer (pos. 1107) from slotted nut (pos. 1106).
11. Remove outer slotted nut (pos. 1106) with a suitable tool.
12. Remove lock washers (pos. 1107).
13. Remove inner slotted nut (pos. 1106).
14. Gently tap on the back of the propeller with a plastic hammer to remove it from the shaft.

6.2.2 Sealing system of propeller hub and gear casing

1. Remove lip seals (pos. 1104) from the inside of the hub.
2. Remove key (pos. 1105) from the shaft.
3. Remove sleeve (pos. 1096) from wear ring (pos. 1097).

Caution

Take care not to damage the surface of the wearing ring.

4. Remove rotating shaft seal part (pos. 1098) from gear shaft (pos. 1093).
5. Gently tap on the side of the wear ring to remove it from the gear casing.
6. Remove stationary shaft seal part (pos. 1098) from the wear ring.
7. Remove intermediate ring (pos. 1095) from the wear ring.

6.2.3 Motor and cable

1. Place the motor in vertical position with the shaft upwards. Remove plug (pos. 1052) and drain the oil into a suitable container.
2. Place the motor in horizontal position with the terminal box upwards.
3. Remove screws (pos. 1024).
4. Cut with a knife along terminal box cover (pos. 1023) to protect the paint.
5. Remove the terminal box cover and O-ring (pos. 1025).
6. Write down the numbers on the wires to ensure correct connection.
7. Disconnect the cable conductors from the motor windings including screw (pos. 1028).
8. Remove cable relief (pos. 1009) from cable (pos. 1001).
9. Cut with a knife between the terminal box and cable flange (pos. 1002) to protect the paint.
10. Remove screws (pos. 1008), cable flange (pos. 1002) and cable (pos. 1001).
11. Remove small cable seal (pos. 1006), thrust washer (pos. 1005), large cable seal (pos. 1004), cable guide (pos. 1003) and cable flange (pos. 1002) with O-ring (pos. 1007).
12. Place the motor in vertical position with the shaft upwards.
13. Remove screws (pos. 1021).
14. Cut with a knife between motor flange (pos. 1020) and motor housing (pos. 1017) to protect the paint.
15. Screw two screws into the threaded holes of the motor flange to separate the motor flange and motor housing.
16. Remove the motor flange from the motor housing.

Note

Take care not to damage the wires of water-in-oil sensor (pos. 1049).

17. Remove water-in-oil sensor (pos. 1049).
18. Remove seal washer (pos. 1173) from the water-in-oil sensor.
19. Place the motor in horizontal position.
20. Remove compensation disc (pos. 1038) from the N-end of the motor housing.
21. Remove bearing (pos. 1039) from rotor shaft (pos. 1019).
22. Place the motor flange and rotor in a hydraulic press and separate them using a special pin tool.
23. Remove bearing (pos. 1047) from the rotor shaft.
24. Remove lip seal (pos. 1055) from the rotor shaft.
25. Remove O-ring (pos. 1022) from the motor flange.
26. Remove nut (pos. 1158), spring washer (pos. 1045) and screw (pos. 1044) from the motor housing.
27. Remove the stator from the motor housing.

Note

Take care not to damage any wires.

6.2.4 Gear casing

1. Cut with a knife between motor housing (pos. 1017) and gear casing (pos. 1088) to protect the paint.
2. Remove screws (pos. 1021). Lift the unit with a crane and knock the motor housing free of the gear casing. Remove the gear casing.
3. Remove planet carrier (pos. 1067) and sun wheel (pos. 1060).
4. Remove O-ring (pos. 1071) from the sun wheel.
5. Remove O-ring (pos. 1022) from motor flange (pos. 1020).
6. Remove lip seal (pos. 1054) from the motor flange.
7. Remove screws (pos. 1064) from ring gear (pos. 1062).
8. Remove the ring gear.
9. Remove retaining ring (pos. 1089) from gear shaft (pos. 1093).
10. Unlock lock washer (pos. 1091) from slotted nut (pos. 1090).
11. Remove the slotted nut and lock washer from the shaft.
12. Knock the shaft out of the gear casing using a plastic hammer. The inner bearing ring (pos. 1092) is removed at the same time.
13. Remove both outer bearing rings (pos. 1092 and 1094).
14. Remove inner bearing ring (pos. 1094) from the shaft.

6.2.5 Stator

1. Remove nut (pos. 1046) from motor housing (pos. 1017).
2. Remove screw (pos. 1044) from the motor housing.
3. Disconnect the stator wires from the motor housing and pull stator (pos. 1018) out of the motor housing.

6.3 Assembly

6.3.1 Motor

1. Insert bearing (pos. 1047) into motor flange (pos. 1020) and fit lip seal (pos. 1055) with the opening pointing away from the bearing.
2. Press rotor (pos. 1019) into the motor flange.

Note *Make sure that the rotor is positioned correctly.*

Caution *Do not use a hammer.*

3. Heat bearing (pos. 1039) and fit it on the N-end of the rotor shaft.

Caution *If a bearing heater is used, the temperature must not exceed 80 °C (176 ° F).*

Note *Use a hydraulic press if a bearing heater is not available.*

4. Fit seal washer (pos. 1173) on water-in-oil sensor (pos. 1049) and lubricate the washer and threads with Loctite 511.
5. Fit the water-in-oil sensor in motor flange (pos. 1020) and tighten it a little by hand.

Note *Keep the wires of the water-in-oil sensor away from the bearing, for instance by means of a plastic strip.*

6. Lubricate the groove for O-ring (pos. 1022) on the motor side of the motor flange with Curil K2.
7. Fit and lubricate the O-ring with Curil K2.
8. Place the rotor with the motor flange upwards and fit lip seal (pos. 1054) with the opening upwards (pointing away from the bearing).
9. Lubricate the groove for O-ring (pos. 1022) on the gear side of motor flange (pos. 1020) with Curil K2.
10. Fit and lubricate the O-ring with Curil K2.
11. Insert the stator in motor housing (pos. 1017).

Note *Make sure that the fixation holes for alignment are positioned correctly.*

Caution *Take care not to damage any wires.*

12. Fit screw (pos. 1044), spring washer (pos. 1045) and nut (pos. 1158). Tighten the nut. See section 4. *Tightening torques and lubricants.*

13. Lead the wires into the terminal box.

14. Place motor housing (pos. 1017) in vertical position.

15. Fit compensation disc (pos. 1038) in the N-end of the motor housing.

16. Insert the rotor in the motor housing. Connect the wires of water-in-oil sensor (pos. 1049) before the rotor is fully inserted.

Note *Align the motor flange with the water-in-oil sensor pointing downwards/away from the terminal box.*

17. Fit and tighten screws (pos. 1021) a little by hand.

18. Place the motor in horizontal position.

19. Fit cable flange (pos. 1002) and O-ring (pos. 1007) on cable (pos. 1001).

20. Lubricate the O-ring with soapy water/cream and fit it in the cable flange.

21. Fit cable guide (pos. 1003), large cable seal (pos. 1004), thrust washer (pos. 1005) and small cable seal (pos. 1006) on cable (pos. 1001).

22. Lubricate the complete seal unit with soapy water/cream and insert it in the terminal box.

23. Lubricate the threads of screws (pos. 1008) with Loctite 243. Fit and tighten the screws in the cable flange. See section 4. *Tightening torques and lubricants.*

24. Fit and fasten cable relief (pos. 1009) on the cable.

Note *Make sure that you have enough cable in the terminal box before tightening the cable relief.*

25. Tighten screws (pos. 1008). See section 4. *Tightening torques and lubricants.*

26. Fit screw (pos. 1028) and lock washer (pos. 1029).

27. Connect the wires according to the notes you made during dismantling. Secure connections with terminal tubes and shrink-on sleeves.

28. Remove screw (pos. 1041) and washer (pos. 1040) from the motor housing.

29. Wrap PFTE tape around plug (pos. 1052) and fit and tighten the plug in the motor housing. See section 4. *Tightening torques and lubricants.*

30. Fill the motor with oil through the hole in the terminal box. See section 5. *Oil types and quantity.*

31. Lubricate screw (pos. 1041) with Loctite 511 and fit washer (pos. 1040) on the screw. Fit and tighten the screw in motor housing (pos. 1017). See section 4. *Tightening torques and lubricants.*

32. Lubricate the groove in terminal box cover (pos. 1023) with Curil K2.

33. Fit and lubricate the O-ring with Curil K2.

34. Fit terminal box cover (pos. 1023).

35. Lubricate the threads of screws (pos. 1024) with Loctite 243 and tighten the screws. See section 4. *Tightening torques and lubricants.*

6.3.2 Gear casing

1. Fit ring gear (pos. 1062) in gear casing (pos. 1088).
2. Lubricate the threads of screws (pos. 1064) with Loctite 243. Tighten the screws. See section 4. *Tightening torques and lubricants*.
3. Fit outer bearing ring (pos. 1092) in the gear casing.
4. Heat inner bearing ring (pos. 1094) using a bearing heater and fit it on the shaft.

Caution *If a bearing heater is used, the temperature must not exceed 80 °C (176 ° F).*

Note *Use a hydraulic press if a bearing heater is not available.*

5. Fit shaft (pos. 1093) in the gear casing.
6. Heat inner bearing ring (pos. 1092) using a bearing heater and fit it on the shaft.
7. Fit lock washer (pos. 1091) and slotted nut (pos. 1090) on the shaft. Tighten the slotted nut. See section 4. *Tightening torques and lubricants*. Lock the slotted nut with lock washer (pos. 1091).
8. Fit retaining ring (pos. 1089) on the shaft.
9. Wrap PFTE tape around plug (pos. 1101) and fit and tighten the plug in seal housing (pos. 1088).
10. Fit O-ring (pos. 1071) in sun wheel (pos. 1060).
11. Lubricate the O-ring with oil and fit it on the shaft.

Note *Make sure that lip seal (pos. 1054) is intact, and check that the motor shaft can rotate freely.*

12. Fit planet carrier (pos. 1067) and place the gear casing on the motor flange.
13. Lubricate the threads of screws (pos. 1099) with Loctite 243 and fasten the gear casing on the motor flange. See section 4. *Tightening torques and lubricants*. Apply a new coat if the coat is damaged.

6.3.3 Sealing system of propeller hub and gear casing

1. Lubricate wear ring (pos. 1097) with Loctite 648 and fit it in the propeller end of the gear casing.
2. Insert intermediate ring (pos. 1095) in the wear ring if the version requires an additional ring.
3. Fit sleeve (pos. 1096) on the wear ring.
4. Lubricate stationary shaft seal part (pos. 1098) with soapy water/cream and fit it in the wear ring. Remove surplus soapy water/cream and clean the surface of the stationary part by means of Loctite 7063.
5. Remove the inner ring from the rotating shaft seal part and fit rotating shaft seal part (pos. 1098).
6. Lubricate inner lip seal (pos. 1104) with Shell Cassida grease and fit it in the hub with the open side pointing away from the hub.
7. Lubricate the inner lip seal with Shell Cassida grease and fit and lubricate the outer lip seal.
8. Fill the shaft seal housing with oil. See section 5. *Oil types and quantity*.
9. Fit key (pos. 1105) in the gear shaft.
10. Lubricate the shaft with Shell Cassida grease and fit the hub on the shaft.
11. Fit and tighten the slotted nut on the shaft with the chamfered end pointing away from the hub. See section 4. *Tightening torques and lubricants*.
12. Fit lock washers (pos. 1107) on the shaft (back to back), and fit and tighten the other slotted nut on the shaft with the chamfered end towards the hub. See section 4. *Tightening torques and lubricants*.
13. Lock the slotted nuts with the lock washers.
14. Fill the hub top with gear oil. See section 5. *Oil types and quantity*.
15. Fit hub cover (pos. 1109).

16. Lubricate the threads of screw (pos. 1111) with washer (pos. 1110) with Loctite 511. Fit and tighten the screw. See section 5. *Oil types and quantity*.
17. Wrap PFTE tape around plug (pos. 1101) and fit and tighten the plug in the gear casing.
18. Fill the gear casing with oil through the hole for plug (pos. 1102). See section 5. *Oil types and quantity*.
19. Wrap PFTE tape around plug (pos. 1102) and fit and tighten the plug in the gear casing. Apply a new coat if the coat is damaged.

6.3.4 Cable entry

1. Fit cable flange (pos. 1002) and cable guide (pos. 1003) on the motor cable.
2. Lubricate the cable with soapy water/cream and fit cable entry (pos. 1004), thrust washer (pos. 1005) and cable entry (pos. 1006) on the motor cable.
3. Lead the cable into the terminal box on motor housing (pos. 1017).

Caution *Make sure that the cable entry is fitted correctly in the cable hole of the motor housing.*

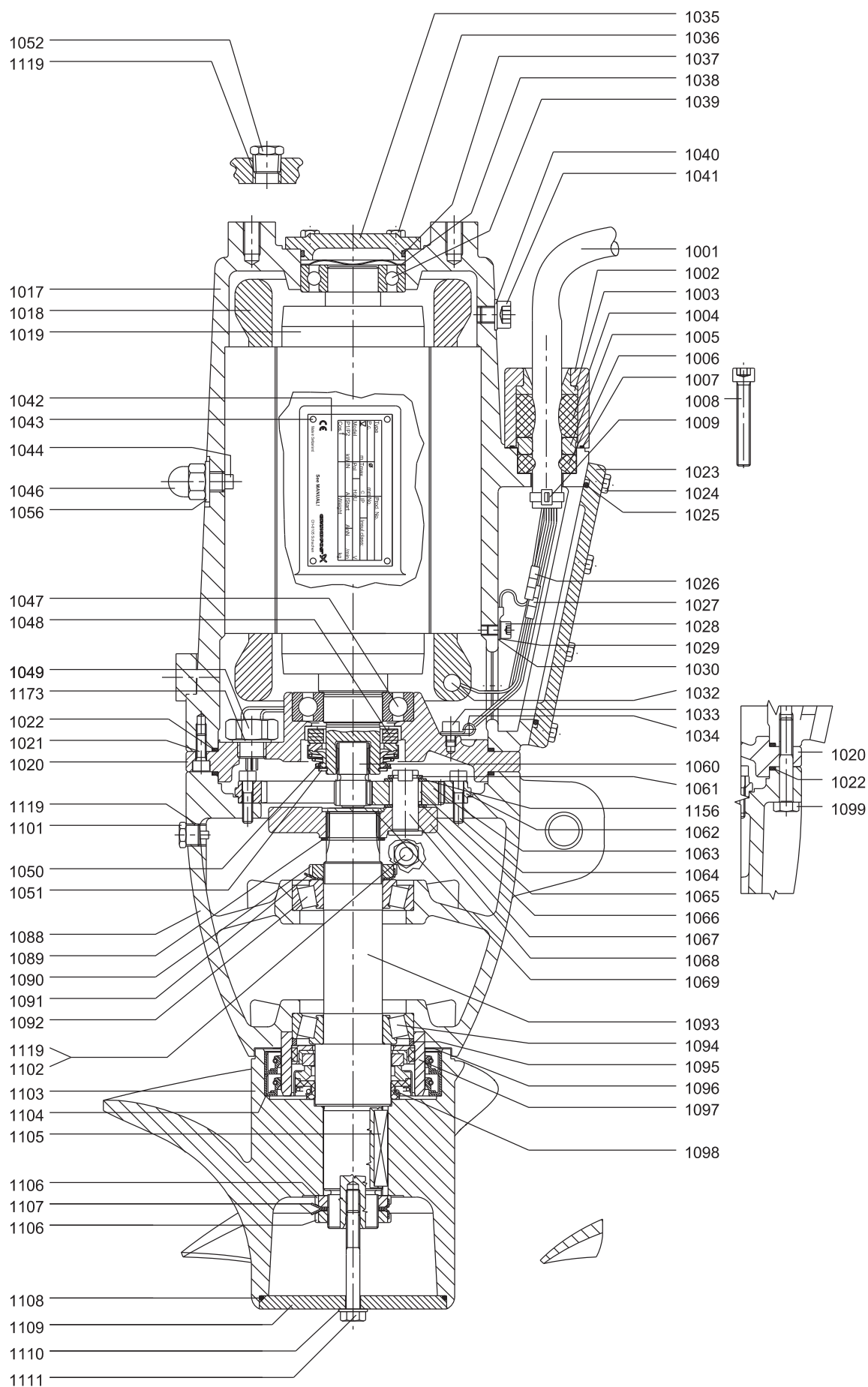
4. Fit and tighten screws (pos. 1008) with washers (pos. 1014) in the cable flange. See section 4. *Tightening torques and lubricants*.
5. Lubricate the groove for O-ring (pos. 1025) with Curil K2 and fit the O-ring.
6. Connect the wires according to the notes you made during dismantling. Secure connections with terminal tubes and shrink-on sleeves.
7. Fit the earth lead and washer (pos. 1029) on screw (pos. 1028), and fit and tighten the screw in the terminal box on the motor housing.

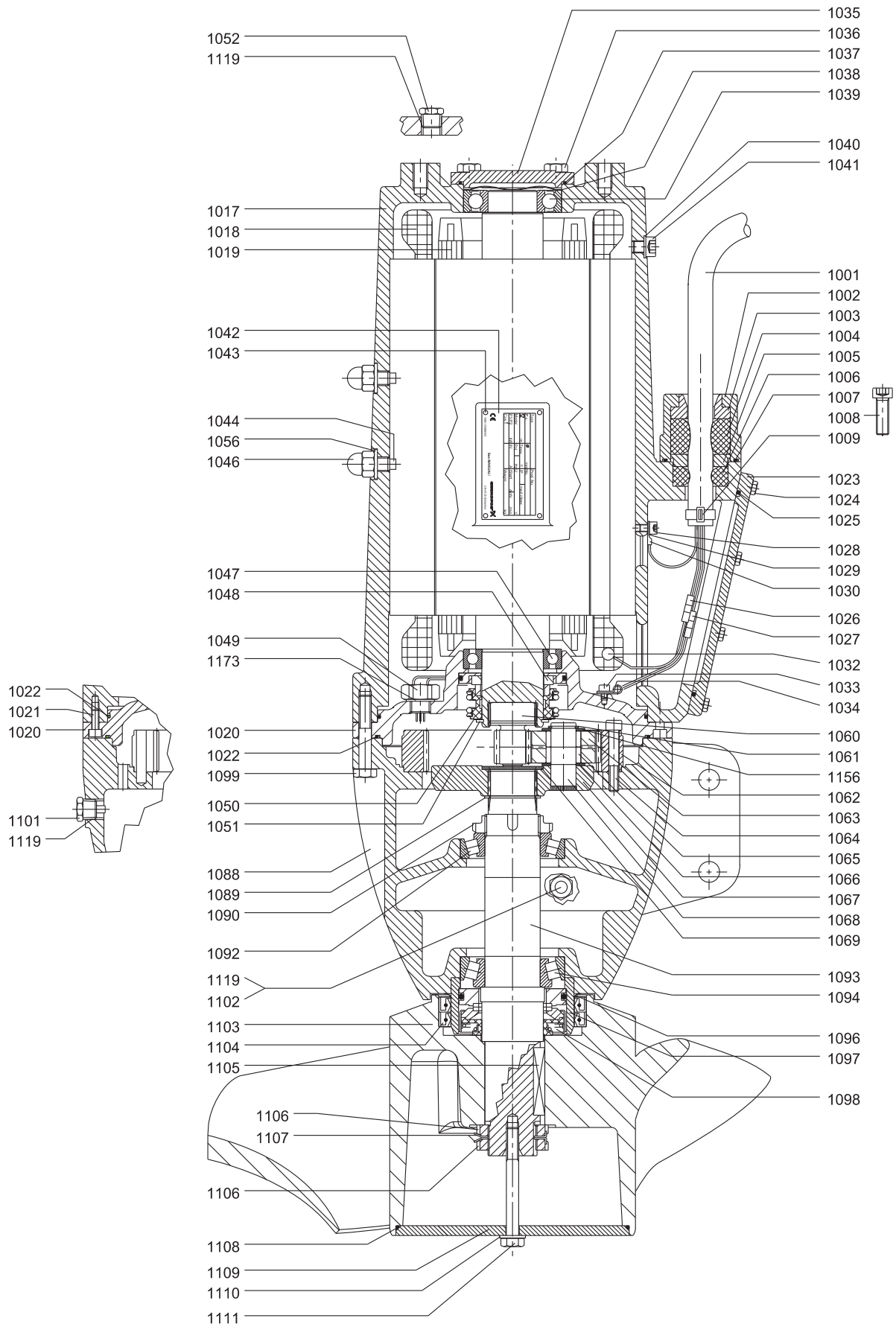
Caution *Take care not to damage any wires.*

8. Fit cable clamp (pos. 1015) with the conical shape upwards using screws (pos. 1010) and washers (pos. 1011).

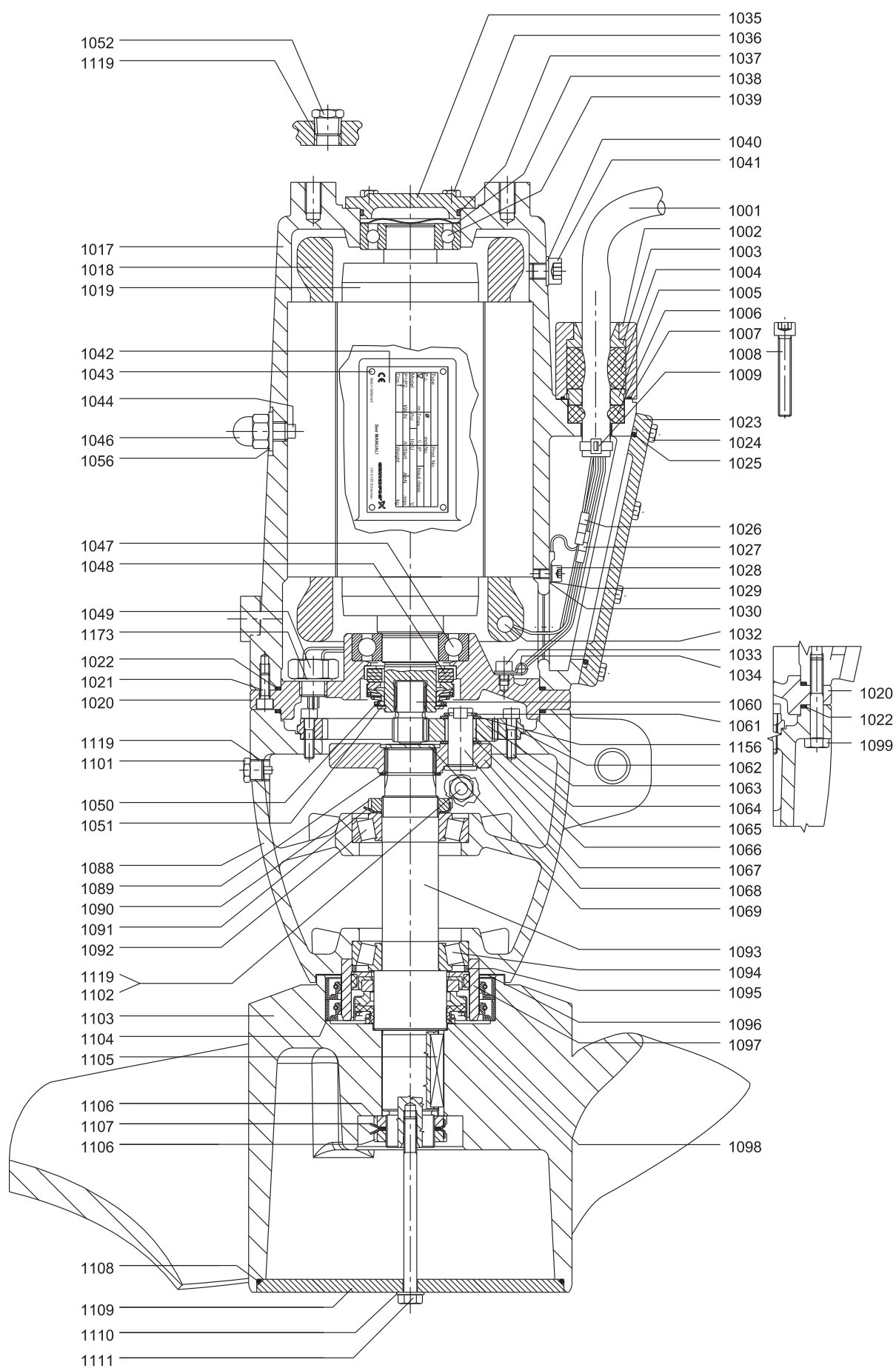
7. Sectional drawings

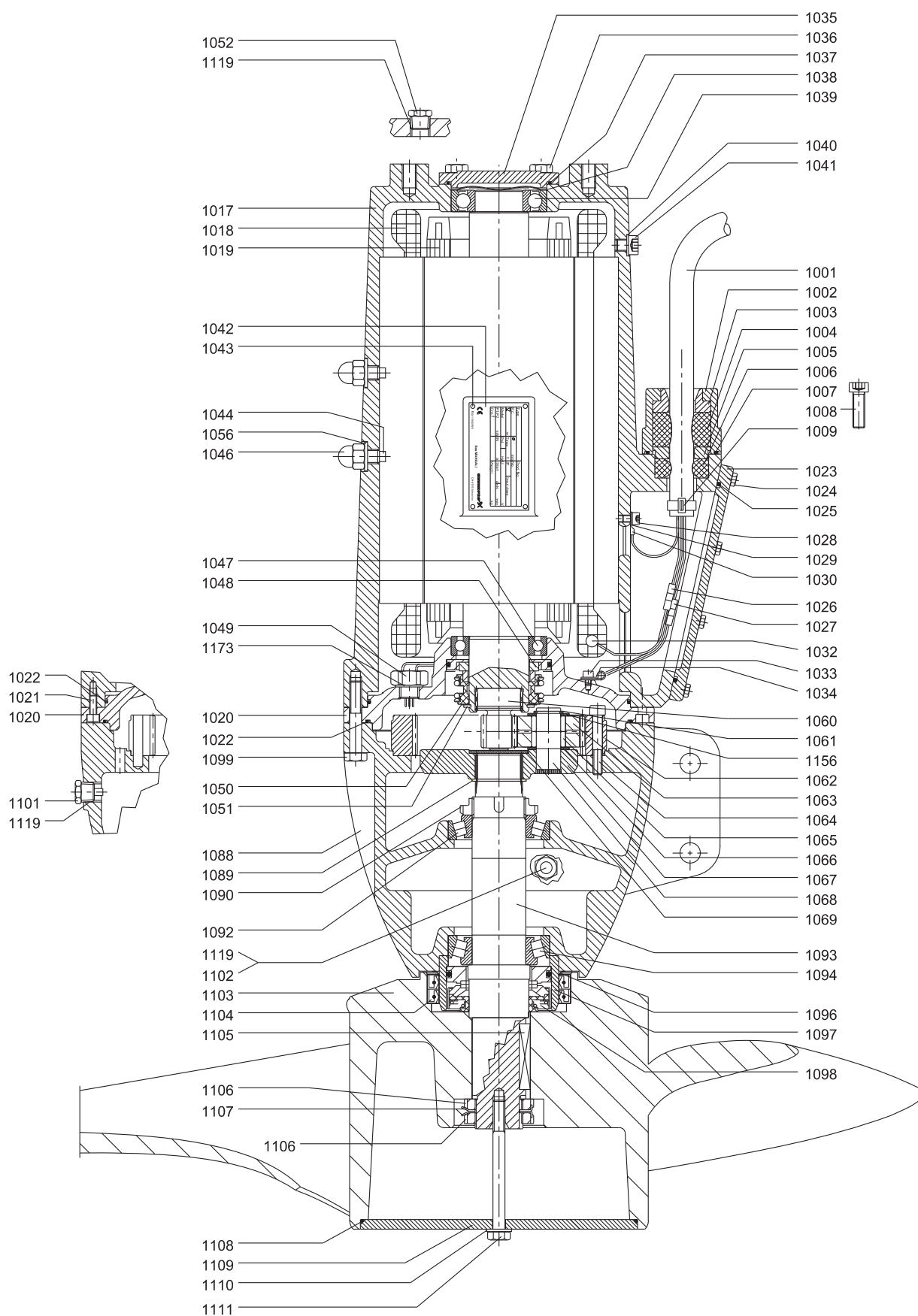
7.1 SRP.xx.30.xx



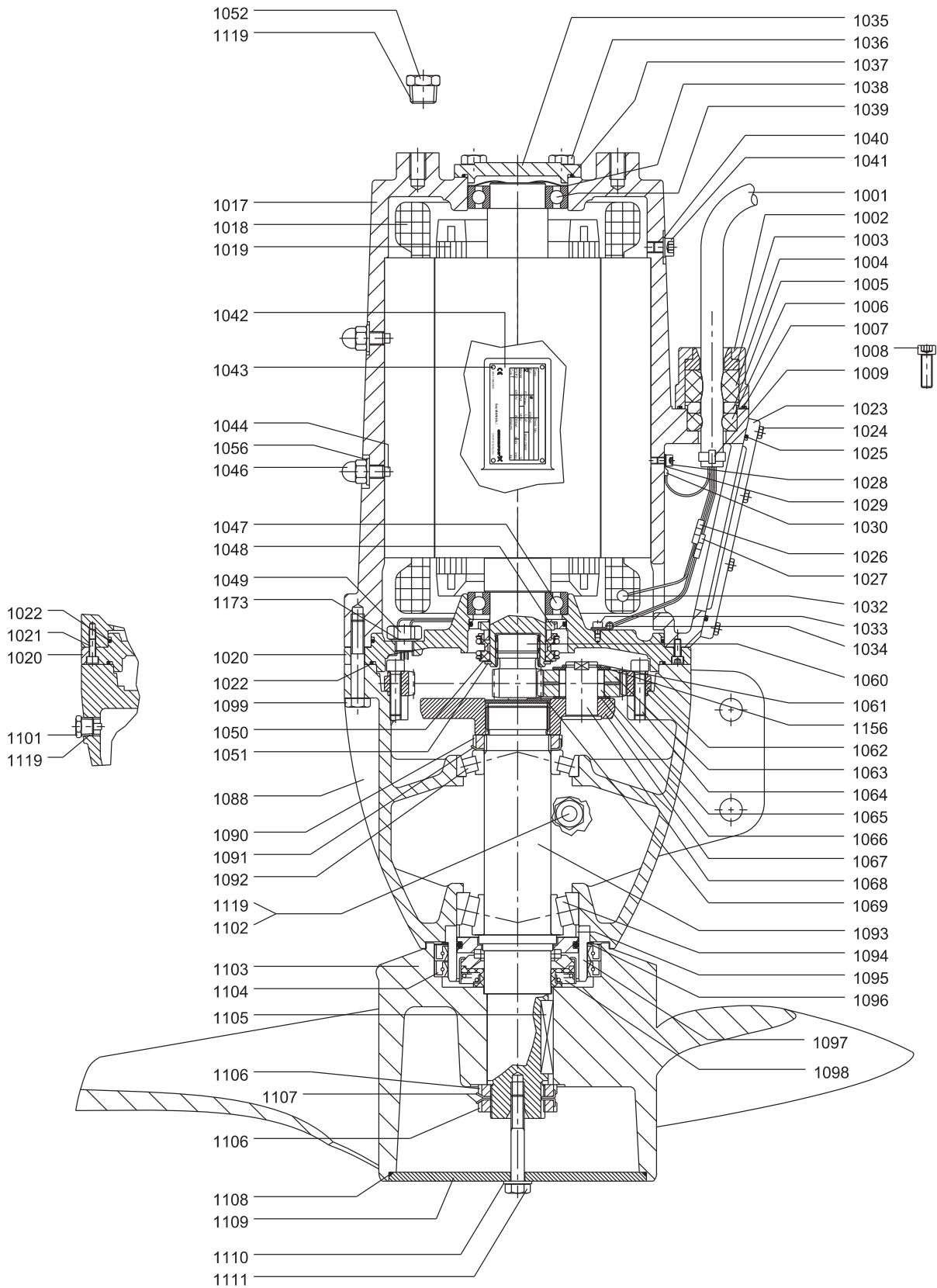


7.3 SRP.65.50.xxx, SRP.80.50.xxx, SRP.100.50.xxx





7.5 SRP.120.80.xxx, SRP.160.80.xxx, SRP.180.80.xxx, SRP.200.80.xxx, SRP.240.80.xxx



TM03 5470 3307

Subject to alterations.

Argentina

Bombas GRUNDFOS de Argentina S.A.
Ruta Panamericana km. 37.500 Lote 34A
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