CM SP

Self-priming

Service instructions

be
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GRUNDFOS

Original service instructions.

CONTENTS

		Page
1.	**Symbols used in this document**	**2**
2.	**Identification**	**2**
2.1	Nameplate	2
2.2	Type key	3
3.	**Tightening torques and lubricants**	**4**
4.	**Service tools**	**5**
4.1	Standard tools	5
4.2	Torque tools	5
5.	**Dismantling and assembly**	**6**
5.1	General information	6
5.2	Dismantling the pump	6
5.3	Assembling the pump	7
5.4	MG 71 and MG 80 motors	8
5.5	MG 90, MG 100, MG 112 and MG 132 motors	8
5.6	Checking and replacing impellers and chambers	9
6.	**Fault finding**	**10**
7.	**Drawings**	**12**
7.1	CM SP 1, 3, 5	12
8.	**Order of assembly for chambers and impellers**	**13**

1. Symbols used in this document

Warning

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

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, the type key and the codes that can appear in the variant code.

The pump and motor nameplates are positioned on the motor fan cover or terminal box. The data and information on the pump nameplate are described in the table below.

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

2.1 Nameplate

2.1.1 Pump nameplate

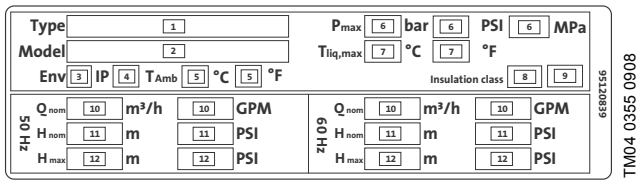


Fig. 1 Pump nameplate

Pos.	Description
1	Pump type
2	Pump model
3	Environmental rating for enclosures based on NEMA type designations
4	Enclosure class
5	Maximum ambient temperature [°C] / [°F]
6	Maximum system pressure [bar] / [psi] / [MPa]
7	Maximum liquid temperature [°C] / [°F]
8	Insulation class
9	Motor protection
10	Rated flow [m^3/h] / [GPM]
11	Head at rated flow [m] / [psi]
12	Maximum head [m] / [psi]

2.1.2 Motor nameplate

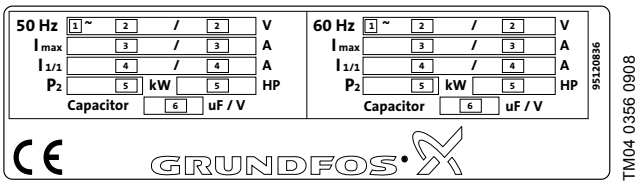


Fig. 2 Motor nameplate

Pos.	Description
1	Number of phases
2	Voltage [V]
3	Maximum current [A]
4	Rated current [A]
5	Power output [kW] / [hp]
6	**Single-phase pumps only:** Capacitor size [µF] and voltage [V]

2.2 Type key

Example CM 3 - 6 O - R - I - E - A V B E C - A - A - N

Type range

CM: Centrifugal Modular

Rated flow rate

Rated flow rate at 50 Hz [m^3/h]

Number of impellers

Pump version

O: Self-priming version (max. suction lift, 8 metres)

S: Self-priming version (max. suction lift, 4 metres)

Pipe connection

R: Whitworth thread, Rp (ISO 7/1)

Materials in contact with pumped liquid

I:	Sleeve	EN 1.4301/AISI 304
	Pump shaft	EN 1.4301/AISI 304
	Impellers/chambers	EN 1.4301/AISI 304

Rubber parts in pump (excluding neck ring and shaft seal)

E: EPDM (ethylene propylene)

Shaft seal

A: O-ring seal with fixed driver

Material of rotating seal face

Q: Silicon carbide (SiC)

V: Aluminium oxide (Al203)

Material of stationary seat

B: Carbon, resin-impregnated

Q: Silicon carbide (SiC)

Material of secondary seal

E: EPDM (ethylene propylene)

Supply voltage

A: 1 x 220 V, 60 Hz

C: 1 x 220-240 V, 50 Hz

Motor information

A: Standard motor (IP55)

Mains plug

A: Prepared for cable glands

Sensor

N: No sensor

Note: Other supply voltages, shaft seal combinations and pipe connections are available on request.
Stainless steel EN 1.4401/AISI 316 is also available on request.

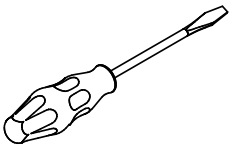
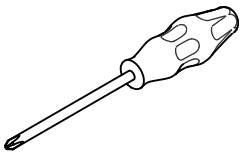
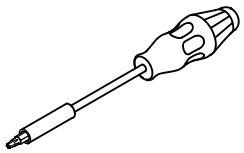
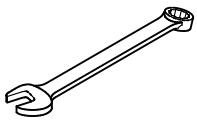
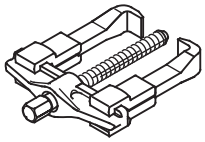
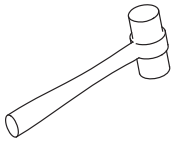
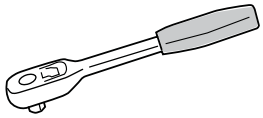
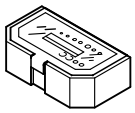
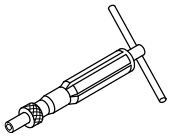
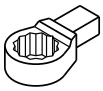
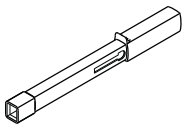
Note ***The type key cannot be used for ordering, as not all combinations are possible.***

3. Tightening torques and lubricants

Pos.	Designation	Quantity	Dimensions	Torque [Nm]	Lubricant
5c	O-ring	1	∅37 x 2.62		Sapphire Aqua-Sil
11	O-ring	2	∅18.5 x 2.0	-	-
25	Plug	2	-	10 - 12	-
26	Staybolt, CM 1, 3, 5, stainless steel	4	M8	12 - 14	THREAD-EZE
28g	Screw	4	M6 x 14	8 - 10	THREAD-EZE
31	O-ring, CM 1, 3, 5	1	∅114.0 x 3.90	-	Sapphire Aqua-Sil
64f	Rubber seal	1			Sapphire Aqua-Sil
67	Locking nut	1	M8	16 - 18	-
102	O-ring	1	∅17.86 x 2.62	-	V7140084
103	Seal faces	1	-	-	Silicone oil, 350 cSt, food grade
107	O-ring	1	∅11.5 x 3.18	-	Sapphire Aqua-Sil
152	Screw	2	M4 x 8	2.7 - 3.3	-
		4	M5 x 12	3.5 - 4	-
155	Bearing cover plate	1	-	-	Sapphire Aqua-Sil
157a	Gasket, MG 71, MG 80	1	∅114.8 / 121.2 x 0.25	-	-
	Gasket, MG 90	2	∅141.2 / 145.5	-	-
	Gasket, MG 100	-	-	-	-
158a	O-ring	1	∅35.4 x 1.97	-	Sapphire Aqua-Sil
159	O-ring, MG 71, MG 80	1	∅32 x 2	-	Sapphire Aqua-Sil
	O-ring, MG 90, MG 100	1	∅52 x 3.0		
	O-ring, MG 112, MG 132	1	∅62 x 3.0		
159a	Seal ring	1	-	-	Castrol LMX grease
181	Screw, MG 71, MG 80	4	M6 x 16	5 - 8	THREAD-EZE
	Staybolt, MG 90	4	M5 x 220	4.5 - 6	
	Staybolt, MG 90L	4	M5 x 260		
	Staybolt, MG 100	4	M5 x 270		
	Staybolt, MG 112	4	M6 x 288		

THREAD-EZE, product number 00SV9997 (0.5 l).
Rocol Sapphire Aqua-Sil, product number 00RM2924 (0.5 kg).
Castrol LMX grease, product number 00RM4311.
Silicone oil, 350 cSt, food grade 00SV0862 (1 l).

4. Service tools

A	B	C	D
			
E	**F**	**G**	**H**
			
I	**J**	**K**	**L**
			
M	**N**		
			

4.1 Standard tools

Pos.	Designation	For pos.	Further information	Product number
A	Screwdriver	103, 156	-	SV0803
B	Cross-head screwdriver	181	Ph2 x 100	SV0279
C	Torx screwdriver	J	TX30 x 115 mm	SV0335
D	Ring/open-end spanner	64c	15 mm	-
		67	13 mm	SV0055
E	Hexagon key	26	5 mm	-
			6 mm	SV0196
F	Puller for bearing	153, 154	-	-
G	Plastic hammer	156	-	SV0349
H	Ratchet handle	156	-	96777072
I	Hexagon head driver	26	M6 - 5 mm	SV0296
			M8 - 6 mm	SV0297
		181	M5 - 4 mm	-
J	Bits kit	28g, 152, 181	-	SV2010

4.2 Torque tools

Pos.	Designation	For pos.	Further information	Product number
K	Torque screwdriver	J	1-6 Nm	SV0438
L	Ring insert tool	N	13 mm - 9 x 12 mm	SV0294
M	Ratchet insert tool	I	9 x 12 mm - 1/2"	SV0295
N	Torque wrench	L, M	9 x 12 mm - 4-20 Nm	SV2092
			9 x 12 mm - 20-100 Nm	SV0269

5. Dismantling and assembly

5.1 General information

If it is necessary to dismantle the pump, either because it is choked or damaged, please follow the instructions in the following sections.

Position numbers of parts (digits) refer to section *7. Drawings*; position numbers of tools (letters) refer to section *4. Service tools*.

Before dismantling the pump

- Disconnect the power supply to the motor.
- Close the isolating valves, if fitted, to avoid draining the system.
- Remove the electric cable in accordance with local regulations.

Before assembling the pump

- Clean and check all parts.
- Replace defective parts by new parts.
- Order the necessary service kits.
- Gaskets and O-rings should always be replaced when the pump is overhauled.

During assembly

Lubricate and tighten screws and nuts to correct torque.
See section *3. Tightening torques and lubricants*.

5.2 Dismantling the pump

1. Remove staybolts (pos. 26).
2. Remove clamping flange (pos. 6a) and sleeve (pos. 16).
3. Remove O-ring (pos. 5c) and water trap (pos. 5b).
4. Remove the two empty chambers (pos. 4f).
5. Remove valve chamber (pos 4e).
6. Remove spring valve (pos. 5e and 5d) from valve chamber (pos. 4e).
7. Remove spring (pos. 5e) from base (pos. 5d).
8. Hold clamp (pos. 64c), and remove nut (pos. 67) by using both tools D.
9. Remove lock washers (pos. 66) and clamp (pos. 64c).
10. Remove impeller (pos. 49).
11. Remove chambers (pos. 4).
12. Remove spacing pipe (pos. 64).
13. Continue the dismantling until short spacing pipe (pos. 64a), rubber seal retainer (pos. 64g) and rubber seal (pos. 64f), and remove those components.
14. Remove impeller (pos. 49), air separator chamber (pos 4d) and spacing pipe (pos. 64).
15. Remove shaft seal (pos. 105). See fig. 3.

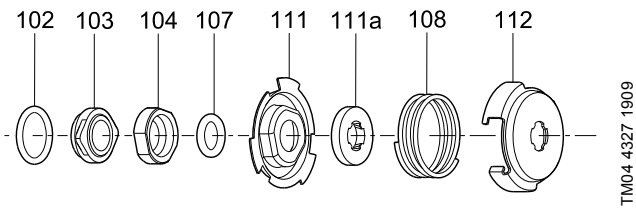


Fig. 3 Exploded view of shaft seal

16. Remove O-ring (pos. 31) and cover plate (pos. 32).

Note

Dismantling of MG 71 and MG 80, see section 5.4.1 Dismantling the motor.

Dismantling of MG 90 and MG 100, see section 5.5.1 Dismantling the motor.

5.3 Assembling the pump

Note

Assembly of MG 71 and MG 80, see section 5.4.2 Assembling the motor.

Assembly of MG 90 and MG 100, see section 5.5.2 Assembling the motor.

1. Fit cover plate (pos. 32) and O-ring (pos. 31). Lubricate the O-ring. See section *3. Tightening torques and lubricants*.
2. Fit O-ring (pos. 102) on stationary seat. See fig. 4. Lubricate the O-ring. See section *3. Tightening torques and lubricants*.

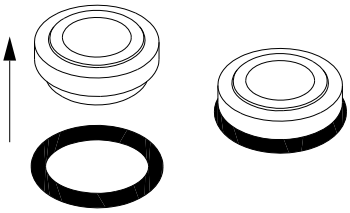


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Fig. 4 Fitting the O-ring on the stationary seat

3. Press stationary seat (pos. 103) home.

Caution ***Do not touch the seal face.***

4. Fit rotating seal face (pos. 104) so that the seal face touches the stationary seat (pos. 103).

Caution ***Do not touch the seal face.***

5. Fit O-ring (pos. 107) in rotating seal face (pos. 104). Lubricate the O-ring. See section *3. Tightening torques and lubricants*.
6. Fit retainer (pos. 111) and stop ring (pos. 111a). See fig. 5.

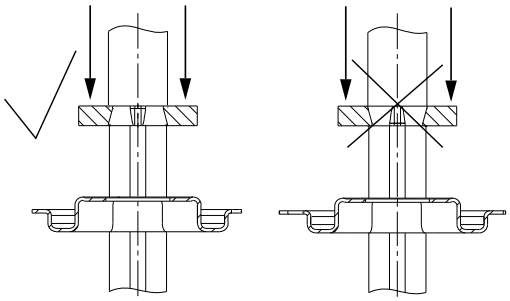

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Fig. 5 Fitting stop ring

7. Fit spring (pos. 108) and driver (pos. 112). See fig. 6.

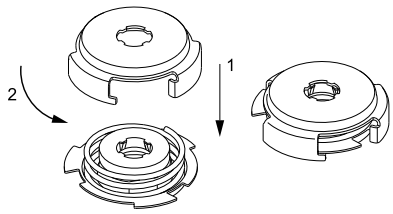

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Fig. 6 Fitting spring and driver

8. Fit air separator chamber (pos. 4d), spacing pipe (pos. 64) and impeller (pos. 49).
9. Fit rubber seal (pos. 64f) in rubber seal retainer (pos. 64g) and impeller (pos. 49), and slide it on the shaft.
10. Fit short spacing pipe (pos. 64a).
11. Fit remaining spacing pipes (pos. 64), chambers (pos. 4) and impellers (pos. 49).
12. Fit clamp (pos. 64c), lock washers (pos. 66) and nut (pos. 67). See fig. 7.

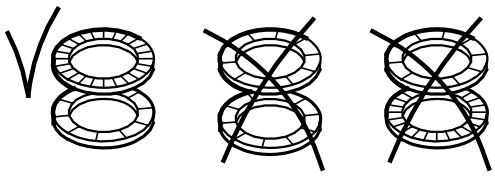

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Fig. 7 Correct fitting of lock washers

13. Hold clamp (pos. 64c), and tighten nut (pos. 67). See section *3. Tightening torques and lubricants*.
14. Fit spring (pos. 5e) in base (pos. 5d).
15. Fit spring valve (pos. 5e and 5d) on valve chamber (pos. 4e).
16. Fit valve chamber (pos. 4e).
17. Fit the two empty chambers (pos. 4f).
18. Fit water trap (pos. 5b) and O-ring (pos. 5c).
19. Fit sleeve (pos. 16) and clamping flange (pos. 6a).
20. Fit and cross-tighten staybolts (pos. 26). See section *3. Tightening torques and lubricants*.

5.4 MG 71 and MG 80 motors

Dismantle the pump before dismantling the motor. See section *5.2 Dismantling the pump*.

5.4.1 Dismantling the motor

1. Remove screws (pos. 152).
2. Remove fan cover (pos. 151).
3. Remove fan (pos. 156) and seal ring (pos. 159a).
4. Remove screws (pos. 181).
5. Remove motor flange (pos. 156b) and gasket (pos. 157a).
6. Remove diverting disc (pos. 79), O-ring (pos. 158a) and bearing cover plate (pos. 155).
7. Pull shaft (pos. 51) out of stator housing (pos. 150).
8. Pull bearing (pos. 153) off shaft (pos. 51).
9. Remove O-ring (pos. 159) and spring (pos. 158).
10. Pull bearing (pos. 154) off shaft (pos. 51).

5.4.2 Assembling the motor

1. Push bearing (pos. 154) on shaft (pos. 51).
2. Fit spring (pos. 158) and O-ring (pos. 159). See fig. 8.

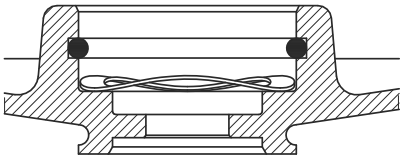

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Fig. 8 Correct fitting of spring and O-ring

3. Push bearing (pos. 153) on shaft (pos. 51).
4. Fit shaft (pos. 51) in stator housing (pos. 150).
5. Fit bearing cover plate (pos. 155), O-ring (pos. 158a) and diverting disc (pos. 79). Lubricate the surface of the cover plate (pos. 155) turning against the bearing. Lubricate O-ring (pos. 158a).
   For correct lubricant, see section *3. Tightening torques and lubricants*.
6. Fit gasket (pos. 157a) and motor flange (pos. 156b).
7. Fit and cross-tighten screws (pos. 181). See section *3. Tightening torques and lubricants*.
8. Fit and lubricate seal ring (pos. 159a).
   For correct lubricant, see section *3. Tightening torques and lubricants*.
9. Fit fan (pos. 156).
10. Fit fan cover (pos. 151).
11. Fit and tighten screws (pos. 152). See section *3. Tightening torques and lubricants*.

5.5 MG 90, MG 100, MG 112 and MG 132 motors

Dismantle the pump before dismantling the motor. See section *5.2 Dismantling the pump*.

5.5.1 Dismantling the motor

1. Remove screws (pos. 152).
2. Remove fan cover (pos. 151).
3. Remove fan (pos. 156) and seal ring (pos. 159a).
4. Remove staybolts (pos. 181).
5. Remove motor flange (pos. 156b), gasket (pos. 157a) and bearing cover (pos. 156a).
6. Remove diverting disc (pos. 79), O-ring (pos. 158a) and bearing cover plate (pos. 155).
7. Pull shaft (pos. 51) out of stator housing (pos. 150).
8. Pull bearing (pos. 153) off shaft (pos. 51).
9. Remove O-ring (pos. 159) and spring (pos. 158).
10. Pull bearing (pos. 154) off shaft (pos. 51).

5.5.2 Assembling the motor

1. Push bearing (pos. 154) on shaft (pos. 51).
2. Fit spring (pos. 158) and O-ring (pos. 159). See fig. 9.

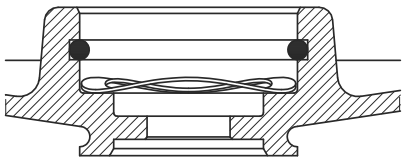

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Fig. 9 Correct fitting of spring and O-ring

3. Push bearing (pos. 153) on shaft (pos. 51).
4. Fit shaft (pos. 51) in stator housing (pos. 150).
5. Fit bearing cover plate (pos. 155), O-ring (pos. 158a) and diverting disc (pos. 79). Lubricate the surface of the cover plate (pos. 155) turning against the bearing. Lubricate O-ring (pos. 158a).
   For correct lubricant, see section *3. Tightening torques and lubricants*.
6. Fit bearing cover (pos. 156a), gasket (pos. 157a) and motor flange (pos. 156b).
7. Fit and cross-tighten staybolts (pos. 181). See section *3. Tightening torques and lubricants*.
8. Fit and lubricate seal ring (pos. 159a). For correct lubricant, see section *3. Tightening torques and lubricants*.
9. Fit fan (pos. 156).
10. Fit fan cover (pos. 151).
11. Fit and tighten screws (pos. 152). See section *3. Tightening torques and lubricants*.
12. Only cast iron pumps: Fit discharge part (pos. 2).
13. Only cast iron pumps: Fit and tighten screws (pos. 2b).
    See section *3. Tightening torques and lubricants*.

5.6 Checking and replacing impellers and chambers

Check	Replace
Impeller	**Wear ring/wear ring retainer**
• Check whether it is necessary to replace the impeller due to friction between wear ring and impeller skirt. If wear has caused a noticeable (use a finger nail) groove in the impeller skirt, the impeller should be replaced. It is advisable always to replace wear rings (pos. 45) and wear ring retainers (pos. 65) when the chamber stack is dismantled.	1. Press wear ring retainer (pos. 65) up and free of the chamber using a screwdriver. 2. Remove wear ring (pos. 45). 3. Fit a new wear ring in the chamber. See fig. 10. 4. Press a new wear ring retainer on the wear ring and in the chamber. It must be possible to move the wear ring freely (sideways) between the retainer and the chamber.
Bearing ring	
• Check whether there is a visible and noticeable (use a finger nail) edge on the rotating bearing ring.	• Replace both bearing rings (pos. 47a) and chamber for bearing (pos. 4a).

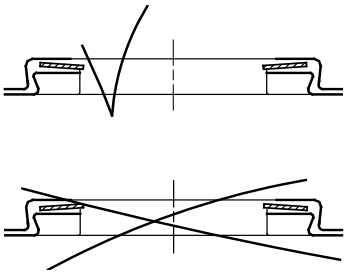

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Fig. 10 Correct fitting of wear ring

6. Fault finding

Warning

Before removing the terminal box cover, make sure that the power supply has been switched off. Make sure that it cannot be accidentally switched on.

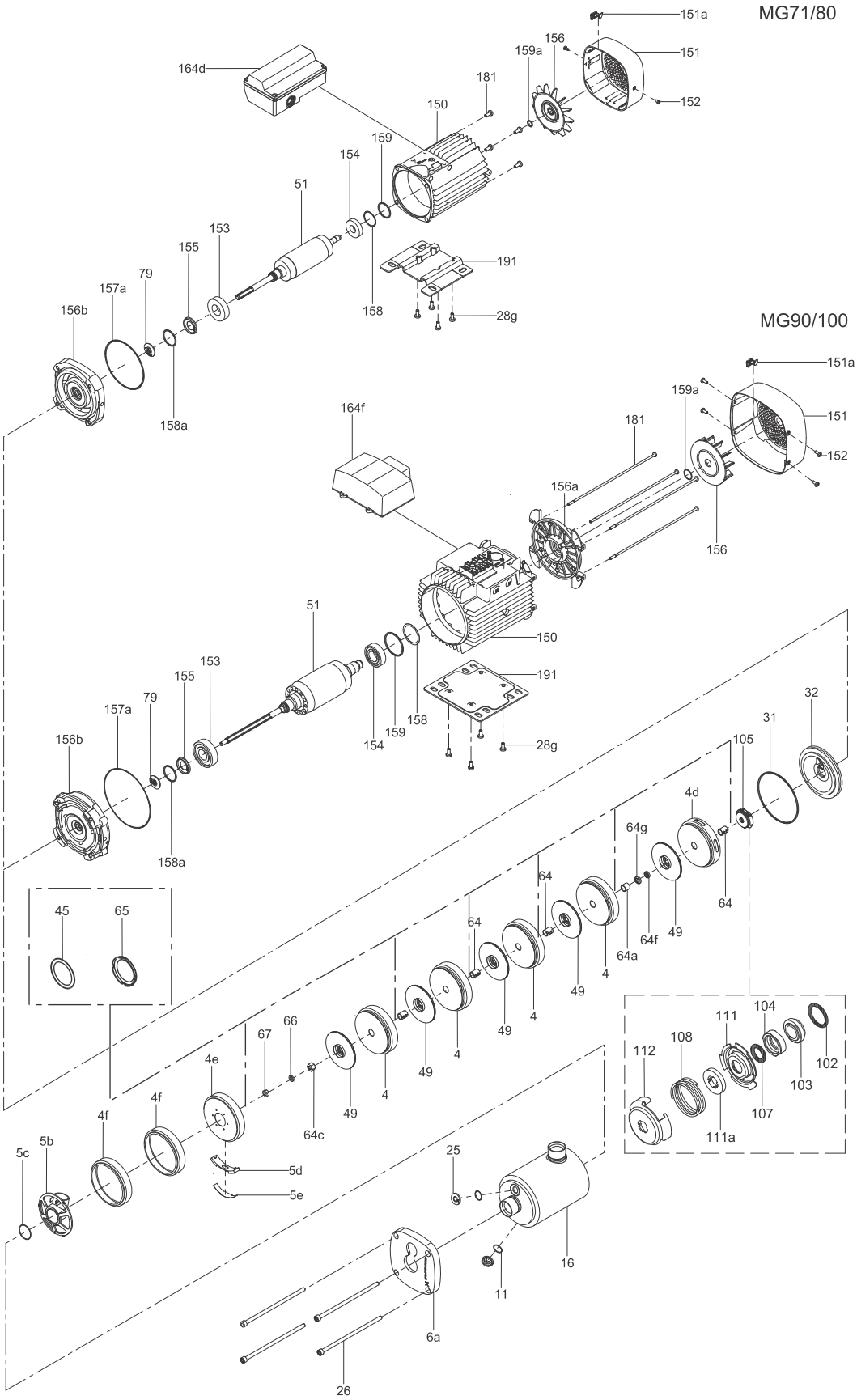
The pumped liquid may be scalding hot and under high pressure. Before any removal or dismantling of the pump, the system must therefore be drained, or the isolating valves on either side of the pump must be closed.

Fault	Cause	Remedy
1. The pump does not run.	a) Supply failure.	Switch on the switch. Check cables and cable connections for defects and loose connections.
	b) Fuses are blown.	Check cables and cable connections for defects, and replace the fuses.
	c) Motor protection tripped.	See 2. a), b), c), d), e), f).
	d) Control-current circuit defective.	Repair or replace the control-current circuit.
2. Motor-protective circuit breaker has tripped (trips out immediately when supply is switched on).	a) Fuses are blown.	See 1. b).
	b) Contacts of the motor-protective circuit breaker or magnet coil defective.	Replace the contacts of the motor-protective circuit breaker, the magnet coil or the entire motor-protective circuit breaker.
	c) Cable connection is loose or faulty.	Check cables and cable connections for defects, and replace the fuses.
	d) Motor winding is defective.	Repair or replace the motor.
	e) Pump is mechanically blocked.	Switch off the power supply, and clean or repair the pump.
	f) Setting of motor-protective circuit breaker is too low.	Set the motor-protective circuit breaker according to the rated current of the motor ($I_{1/1}$). See nameplate.
3. The motor-protective circuit breaker trips out occasionally.	a) Setting of motor-protective circuit breaker is too low.	See 2. f).
	b) Periodic supply failure.	See 2. c).
	c) Periodically low voltage.	Check cables and cable connections for defects and loose connections. Check that the supply cable of the pump is correctly sized.
4. The motor-protective circuit breaker has not tripped out, but the pump is inadvertently out of operation.	a) See 1. a), b), d) and 2. e).	
5. The pump performance is unstable.	a) Pump inlet pressure is too low.	Check the inlet conditions of the pump.
	b) Suction pipe is partly blocked by impurities.	Remove and clean the suction pipe.
	c) Leakage in suction pipe.	Remove and repair the suction pipe.
	d) Air in suction pipe or pump.	Vent the suction pipe/pump. Check the inlet conditions of the pump.
6. The pump performance is unstable and the pump is noisy.	**Self-priming pumps only:**	
	a) The differential pressure across the pump is too low.	Close the tap gradually until the discharge pressure is stable and the noise has ceased.
7. The pump runs, but gives no water.	a) Pump inlet pressure is too low.	See 5. a).
	b) Suction pipe is partly clogged by impurities.	See 5. b).
	c) The foot or non-return valve is stuck in its closed position.	Remove and clean, repair or replace the valve.
	d) Leakage in suction pipe.	See 5. c).
	e) Air in suction pipe or pump.	See 5. d).
8. When startup is attempted, the pump will start, but delivers no pressure or flow.	**Self-priming pumps only:**	
	a) Liquid column above non-return valve in discharge pipe prevents the pump from self-priming.	Empty the discharge pipe. Make sure that the non-return valve does not hold back liquid in the discharge pipe. Repeat the startup procedure described in the installation and operating instructions.
	b) Suction pipe draws in air.	Make sure that the suction pipe is airtight from pump to liquid level. Repeat the startup procedure described in the installation and operating instructions.

Fault	Cause	Remedy
9. The pump runs, but does not deliver the rated flow.	**Self-priming pumps only:**	
	a) Internal valve does not close.	Close the tap gradually until a sudden rise in pressure or flow can be seen. Then open the tap gradually until the required flow is reached.
10. The pump runs backwards when switched off.	a) Leakage in suction pipe.	See 5. c).
	b) Foot or non-return valve are defective.	See 6. c).
	c) Foot valve is stuck in completely or partly open position.	See 6. c).
11. The pump runs with reduced performance.	a) Wrong direction of rotation.	**Three-phase pumps only:** Switch off the power supply with the external circuit breaker, and interchange two phases in the pump terminal box.
	a) See 5. a), b), c), d).	

7. Drawings

7.1 CM SP 1, 3, 5



TM05 8836 3413

Fig. 11 CM SP 1, 3, 5

8. Order of assembly for chambers and impellers

The tables below help to place chambers in the right order when assembling the pump.

Description		Pos., see drawing, fig. 11
Chamber, cpl. with ribs and guide vanes	A	4d
Chamber, cpl.	B	4
Valve chamber	C	4e
Chamber, empty	D	4f
Impeller	E	49

CM SP 1, 3, 5										
Number of impellers	**3**		**4**		**5**		**6**		**7****	
Pos.	**Chamber**	**Impeller**	**Chamber**	**Impeller**	**Chamber**	**Impeller**	**Chamber**	**Impeller**	**Chamber**	**Impeller**
1*	A	E	A	E	A	E	A	E	A	E
2	B	E	B	E	B	E	B	E	B	E
3	C	E	B	E	B	E	B	E	B	E
4	D		C	E	B	E	B	E	B	E
5	D		D		C	E	B	E	B	E
6			D		D		C	E	B	E
7					D		D		C	E
8							D		D	
9									D	

* Pos. 1 is next to the motor.

** Only CM SP 5.

Subject to alterations.

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