SP 7/9/11/14

Service instructions

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GRUNDFOS

Original service instructions.

CONTENTS

Warning

Prior to service work, read these service instructions carefully. Installation and service work must comply with local regulations and accepted codes of good practice.

Observe the safety instructions in the installation and operating instructions for the product.

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

2.1 Nameplate

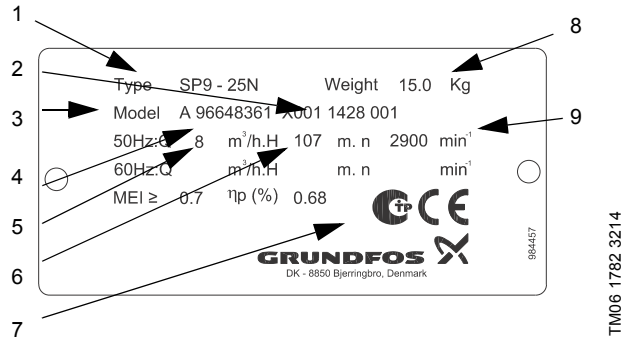


Fig. 1 Nameplate

Pos.	Description
1	Type designation
2	Production code
3	Model
4	Material number
5	Rated flow rate
6	Head at rated flow rate
7	CE mark and approvals
8	Weight
9	Speed

2.2 Type key

Example of pump	**SP9**	**- 9**	**C**		**L**	**Rp4**	**6"**		**50/60**	**SD**	
Example of pump with motor	**SP9**	**- 10**	**AA**	**N**		**Rp6**	**8"**	**3 x 380-415**	**50**	**SD**	**92 kW**

Type range (SPXA, SP)

Number of impellers

Reduced impellers (A, B, C max. 2)

Stainless-steel parts of material

= EN 1.4301
N = EN 1.4401
R = EN 1.4539

Rubber parts of material

SP1A - SP5A	SP9 - SP14	SP17 - SP215
= NBR E = FKM	= LSR/NBR/TPU E = FKM	= NBR E = FKM L = LSR/NBR

Connection

Rp thread (PpX)
R thread (RX)
NPT thread (XNPT)
Grundfos flange (GrX)

Inlet motor size

Voltage [V]

Frequency [Hz]

Starting method

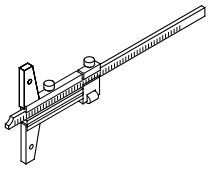
S = DOL
D = SD

Motor power [kW]

3. Tools

3.1 Special tools

A



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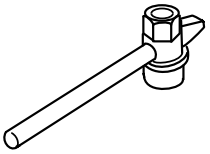

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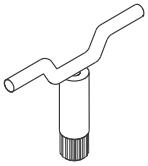

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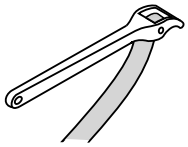

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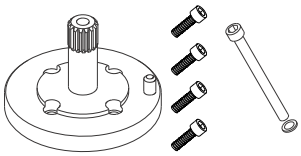

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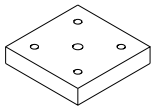
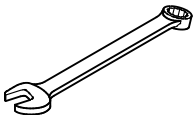


Pos.	Description	For pos.	Motor size	Further information	Part number
A	Depth gauge	14, 14a	4", 6"	Measuring range up to 300 mm	00SV0834
B	Knock-out spanner	11	4", 6"	Shaft diameter: 12.7 mm	00SV0187
				Shaft diameter: 16 mm	00SV0217
C	Spline key	16	4"		00SV0351
			6"		00SV0352
D	Band pipe wrench for fitting of sleeve		4", 6", 8"		00SV0853
E	Adaptor	14, 14a, 73	4"	Including 4 x M8 x 20.1 x M8 x 75	98148060
			6"	Including 4 x M8 x 20.1 x M8 x 115	97620193
F	Mounting plate		4", 6"		98164171

3.2 Standard tools

O

P



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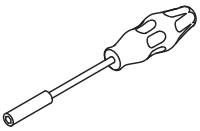

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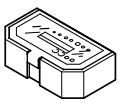

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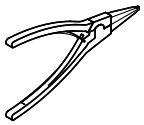
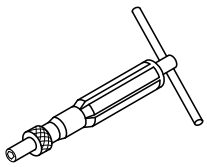
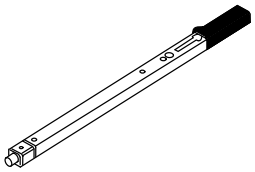
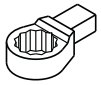
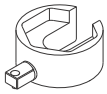


Pos.	Description	For pos.	Motor size	Further information	Part number
O	Hexagon key set	N	4", 6"		97656148
P	Ring spanner			Spanner size: 13 mm	00SV0055
Q	Screwdriver for bits	18d	4", 6"		00SV2011
R	Bits kit		4", 6"		00SV2010
S	Locking-ring pliers		4", 6"	40-100 mm, J3	0V022474

3.3 Torque tools

T	U	V	X
			

Pos.	Description	For pos.	Motor size	Further information	Part number
T	Torque screwdriver	18d	4", 6"	1-6 Nm	00SV0438
U	Torque wrench	11	4", 6"	4-20 Nm	00SV0292
		19, 22	4", 6"	20-100 Nm	00SV0269
V	Ring spanner for torque wrench	19	4", 6"	Spanner size: 13 mm	00SV0513
X	Split cone spanner for torch wrench	11	4", 6"	∅12.7 mm, size 22 mm	98772885
			4", 6"	∅16 mm, size 27 mm	98772890

3.4 Service video

As an additional tool and supplement to these service instructions, we offer a service video which shows the following procedures:

- dismantling
- replacement of wear parts
- pump assembly
- quality control.

The SP service video is available on www.product-selection.grundfos.com/ or www.youtube.com/user/Grundfosvideo.

4. Tightening torques and lubricants

Pos.	Description	Motor size	Quantity	Dimension	Supplementary information	Torque [Nm]	Lubricant
58	Bolt for motor	6"	4	1/2" UNF		50	
58a	Nut for motor staybolt	4"	4	M8		18	
19	Nut for strap	4", 6"	4	M8	First step	10	00RM6117
					Second step	18	
11	Split cone nut	4", 6"		∅12.7 mm	size: 22 mm key	20	00RM6117
				∅16 mm	size: 27 mm key	30	
18d	Screw for clamp	4", 6"	4	M4		2.5	
7	Neck ring	4", 6"	1				Soapy water with a concentration of 3 to 5 %
8/6	Bearings	4", 6"					
105	Eyebolt*	6"	2				00RM6117
-	Nut for eyebolt*	6"	2	M8		18	
-	Hexagon head screw*	6"	12	M8		18	00RM6117
-	Sleeve/flange thread*	6"					00RM6117

* Only for sleeve versions.

5. Before dismantling

5.1 Failure analysis

If the pump has to be dismantled for replacement of any part, it is important that you identify the cause of the fault, especially if the pump has been damaged. Always take care to thoroughly inspect, analyse and document each individual component, both before and during dismantling.

Use the check list in section *14. Analysis check list* as a guide for inspection of the components.

6. Dismantling

Be systematic when dismantling the pump.

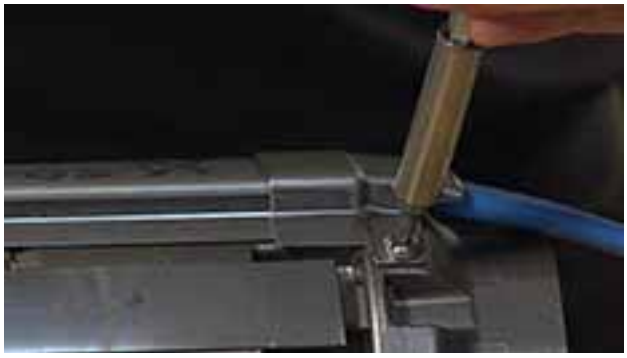
Follow the instructions below.

Have the *14. Analysis check list* next to you during dismantling.

Position numbers of pump components (digits) refer to section *13. Drawings*.

Position numbers of tools (letters) refer to section *3. Tools*.

6.1 Motor



TM06 3064 4014

1. Remove screws (pos. 18d) and then remove top and bottom cable guard clamps (pos. 18b/18c).
2. Remove cable guard (pos. 18).
   Do not remove the motor cable from the motor, unless required. The sealing might be damaged. Check the condition of the cable.

TM06 3065 4014

3. Cross-loosen bolts/nuts (pos. 22/22a) holding the 4"/6" motor.
4. Pull the motor off the pump.

6.2 Pump

TM05 4504 2412

1. Fasten adaptor (pos. E) to mounting plate (pos. F) with the hexagon socket head cap screws.
2. Fasten the adaptor to the chamber stack by use of the hexagon socket head cap screw and tighten with 20 Nm. Check that the recess of the adaptor fits into the recess of suction interconnector (pos. 14).

TM06 3066 4014

3. Fix the mounting plate with chamber stack in a vice.

TM06 3067 4014

4. Cross-loosen and remove nuts (pos. 19) from straps (pos. 17).

TM06 3068 4014

5. Remove the nameplate supported by straps (pos. 17).
6. Remove straps (pos. 17).

6.3 Valve casing

TM06 3070 4014

1. Remove valve casing (pos. 1).

6.4 Top chamber and impeller

TM06 3071 4014

1. Loosen split cone nut (pos. 11) with knock-out spanner (pos. B).

TM06 3072 4014

2. Turn the knock-out spanner upside down and knock on the nut with a plastic mallet. Split cone (pos. 12) will then loosen its grip on the shaft.
3. Remove impeller (pos. 13) and top chamber (pos. 9).

6.5 Chambers

TM06 3073 4014

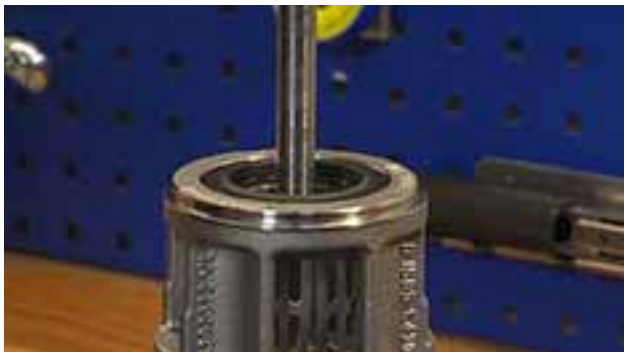
1. Continue the dismantling as described in the previous section until you reach upthrust bearing (pos. 6).

6.6 Bottom chamber with upthrust bearing

TM06 3074 4014

1. Remove upthrust bearing (pos. 6) from the shaft.
2. Remove the last impeller as described in the previous section.

Note: On SP 7, sleeve versions (start stage 50 Hz 56 stages, 60 Hz 40 stages. End stage 50 Hz 88, 60 Hz 73) there are two upthrust bearings placed on the first and second stage.



TM06 3075 4014

3. Remove the retainer for neck ring

TM06 3076 0414

4. Result

7. Replacing the wear parts

When replacing wear parts of the pump, clean and check all parts.

Always replace all wear parts from the recommended service kit.

Note: The service kit can contain more parts than the pump needs.

7.1 Replace bearings and seal rings

7.1.1 Remove bearings and neck rings

TM06 3079 4014

1. Press a screwdriver between seat and neck ring (pos. 9/7) and push it out of the recess.

TM06 3078 4014

2. Press out rubber bearing (pos. 8) on the back of the chamber with a screwdriver.

7.1.2 Mount new bearing and neck rings

1. Clean the recess where the valve seat/neck ring was fitted.
2. Moisten the valve seat/neck ring with soapy water and press it home in the recess. See section *3. Tools*.

TM06 3080 4014

3. When the neck ring and rubber bearing have been replaced, the lip on the neck ring must point upwards.

TM06 3076 0414

4. Replace all neck rings and rubber bearings in the chambers as described above.

7.1.3 Disassembling of valve casing

TM06 3081 0414

1. Position the valve casing (pos. 1) upside down.

TM06 3082 0414

2. Use locking-ring pliers (pos. S) to remove lock ring.

TM06 3083 0414

3. Remove valve retainer (pos. 3a), and remove valve seat (pos. 3).
4. Check the condition of valve cup (pos. 2), and valve guide (pos. 2). Verify that no deformation has happened.

7.1.4 Assembling the valve casing

TM06 3084 0414

1. Place valve cup (pos. 2) and valve guide (pos. 70) into the valve case.
2. Verify that the valve guide is seated correctly into the valve case.

TM06 3085 0414

3. Replace valve seat (pos. 3) and place the valve retainer into the valve case and verify that the components are seated correctly.

TM06 3086 0414

4. Insert the locking ring with locking-ring pliers (pos. S)
5. Verify that the locking ring is seated correctly.
6. Check that the valve cone is moving freely.

8. Pump assembly

8.1 Suction interconnector

TM06 3066 4014

1. Fasten the adaptor to the shaft by use of the hexagon socket head cap screw and tighten with 20 Nm. Be sure that movement is not possible between shaft and adaptor.

TM06 3087 0414

2. Place the retainer for the neck ring on the suction interconnector.

TM06 3088 0414

3. Mount the bottom impeller.

TM06 3089 0414

4. Tighten split cone nut. (pos. 11) using a torch wrench together with split cone spanner (pos. X). See section *4. Tightening torques and lubricants*.

8.2 Bottom chamber with upthrust bearing


TM06 3090 0414

1. Mount upthrust bearing (pos. 6) on top of the bottom impeller.


TM06 3091 0414

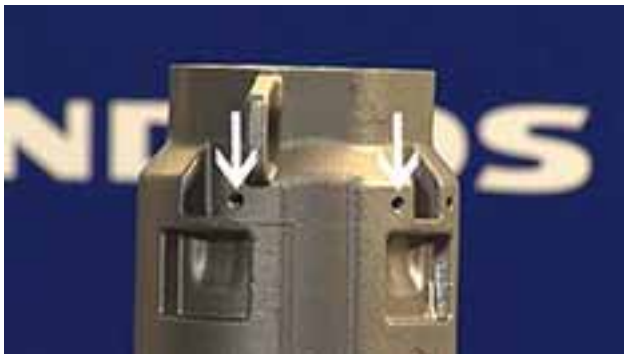
2. Mount bottom chamber (pos. 9) on suction interconnector (pos. 14).

8.3 Chambers

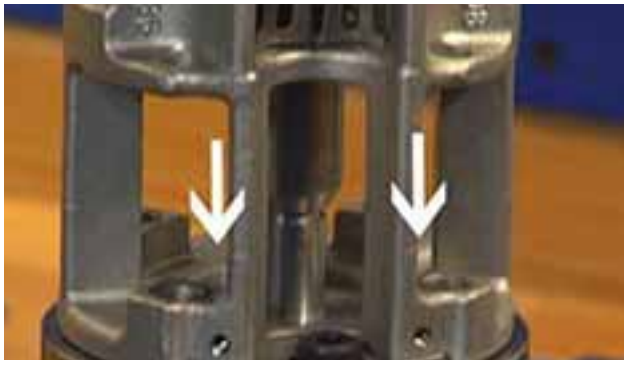

TM06 3092 0414

1. Mount the following chamber (pos. 9) on top of the bottom chamber. Repeat this procedure until all impellers and chambers have been fitted.

8.4 Valve casing

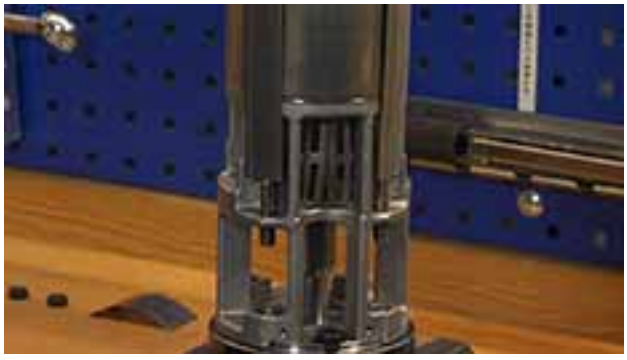

TM06 3093 0414

1. Mount valve casing (pos. 1) on the top chamber.


TM06 3094 0414

2. Position the valve casing so that the threaded holes for cable guards (pos. 18) are in line with the threaded holes in suction interconnector (pos. 14/14a).

8.5 Straps


TM06 3095 0414

1. Lubricate the thread of straps (pos. 17) with 00RM6117 - grease and mount them in the valve casing and suction interconnector (pos. 14/14a).

TM06 3096 0414

TM06 3097 0414

2. Mount the nameplate between two straps before tightening the straps.

TM06 3098 0414

3. Mount nuts (pos. 19) and cross-tighten them in two steps with the specified torque. See section *4. Tightening torques and lubricants*.

9. Quality control

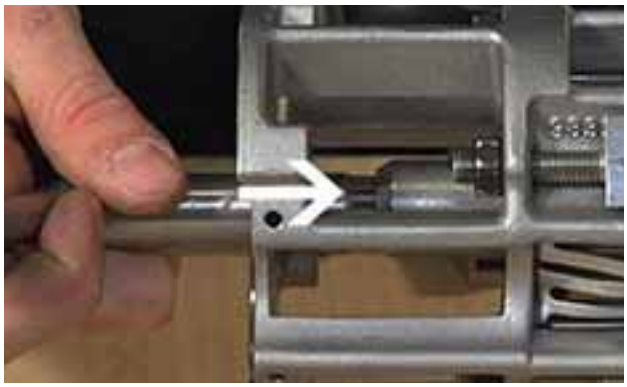
9.1 Rotating the shaft

TM06 3099 0414

1. Position the pump so that it is easy to turn the shaft.
2. Insert spline key (pos. C) into the shaft spline.
3. Give the spline key two turns clockwise and counter-clockwise. You must be able to turn the shaft in both directions with little force only.

9.2 Checking the pump axial clearance

9.2.1 Axial clearance, shaft in top position



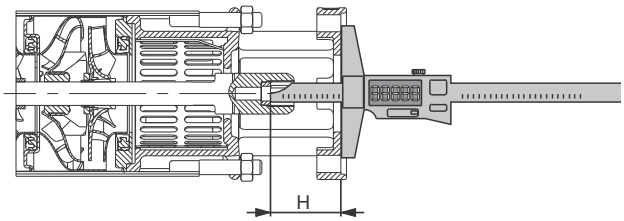
TM06 3100 0414

1. Press the shaft to top position with spline key (pos. C).

TM06 3101 0414

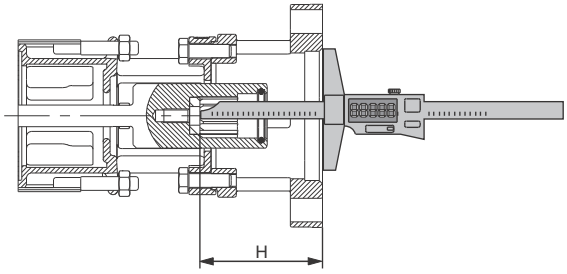
2. Using depth gauge (pos. A), measure the top axial clearance from the bottom of the coupling to the end of suction interconnector (pos. 14).
3. Note down the measured axial clearance.

Note: When measuring the axial clearance on 4" pumps, the reference point is the recess of the suction interconnector and not the edge. See figs 2 and 3.



TM06 2871 1114

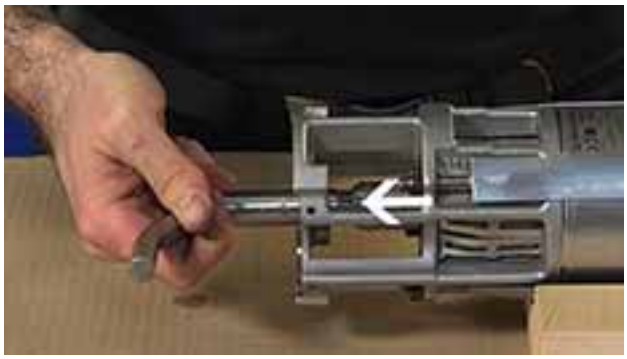
Fig. 2 Measuring axial clearance of 4" pump



TM06 2870 1114

Fig. 3 Measuring axial clearance of 6" pump

9.2.2 Axial clearance, shaft in bottom position



TM06 3102 0414

1. Turn the shaft with spline key (pos. C) while pulling the shaft into bottom position.

TM06 3101 0414

2. Using depth gauge (pos. A), measure the bottom axial clearance from the bottom of the coupling to the end of the suction interconnector (pos. 14).
3. Note down the measured axial clearance.

9.2.3 Check list

If there is no clearance (end play) or the measured clearance differs from the values stated below, the assembly is not correct. Therefore, you must dismantle and reassemble the pump.

Motor size	Axial clearance [mm]	
	Shaft in bottom position	Shaft in top position
4"	Max. 37.15	Min. 38.7
6"	Max. 71.8	Min. 73.4

Note: Maximum clearance 5 mm.

10. Motor

10.1 Check motor cooling liquid

The submersible motors are factory-filled with a special FDA-approved, non-toxic liquid which is frost-proof down to -20 °C.

Note Check the level of the liquid in the motor and refill the motor, if required. Use tap water.

Caution If frost protection is required, a special Grundfos liquid must be used to refill the motor. Otherwise, tap water may be used for refilling.

Refilling of liquid is described below.

10.1.1 Grundfos MS 402 and MS 4000 submersible motors

The filling hole for motor liquid is placed in the following positions:

MS 402: in the bottom of the motor.

MS 4000: in the top of the motor.

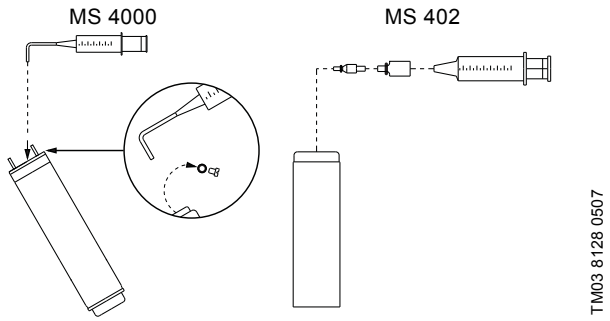
1. Position the submersible motor as shown in fig. 4. The filling screw must be at the highest point of the motor.
2. Remove the screw from the filling hole.
3. Inject liquid into the motor with the filling syringe (fig. 4) until the liquid runs back out of the filling hole.
4. Replace the screw in the filling hole and tighten securely before changing the position of the motor.

Torques:

MS 402: 2.0 Nm.

MS 4000: 3.0 Nm.

The submersible motor is now ready for installation.



TM03 8128 0507

Fig. 4 Motor position during filling - MS 4000 and MS 402

10.1.2 Grundfos MS 6000 submersible motors

- If the motor is delivered from stock, the liquid level must be checked before the motor is installed. See fig. 5.
- In the case of service, the liquid level must be checked. See fig. 5.

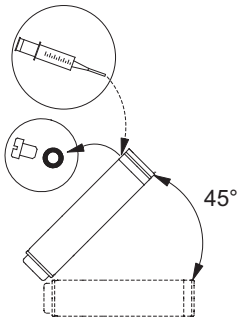
Filling procedure:

The filling hole for motor liquid is placed at the top of the motor.

1. Position the submersible motor as shown in fig. 5. The filling screw must be at the highest point of the motor.
2. Remove the screw from the filling hole.
3. Inject liquid into the motor with the filling syringe (fig. 5) until the liquid runs back out of the filling hole.
4. Replace the screw in the filling hole and tighten securely before changing the position of the motor.

Torque: 3.0 Nm.

The submersible motor is now ready for installation.



TM03 8129 0507

Fig. 5 Motor position during filling - MS 6000

10.1.3 Grundfos MMS6, MMS 8000, MMS 10000 and MMS 12000 submersible motors

Filling procedure:

Place the motor at a 45 ° angle with the top of the motor upwards. See fig. 6.

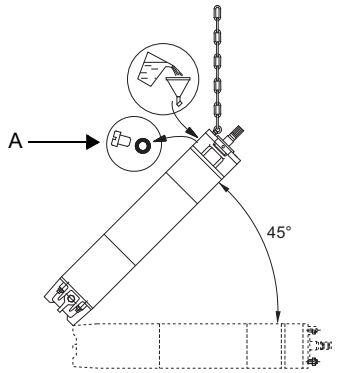
1. Unscrew the plug (A) and place a funnel in the hole.
2. Pour tap water into the motor until the motor liquid inside the motor starts running out of plug (A).

Caution Do not use motor liquid that contains oil.

3. Remove the funnel and refit plug (A).

Caution Before fitting the motor to a pump after a long period of storage, lubricate the shaft seal by adding a few drops of water and turning the shaft.

The submersible motor is now ready for assembly with the pump and ready for installation.



TM03 2065 3605

Fig. 6 Motor position during filling - MMS

10.2 Checking the motor shaft height

TM06 3103 4014

1. Using the depth gauge (pos. A), measure the shaft height from the top of the shaft to the motor frame.
2. Note down the measured shaft height.

10.2.1 Check list

If the measured shaft height differs from the value stated below, adjust the axial bearing in the motor.

Motor size	Motor type	Tolerated shaft height [mm]
4"	Grundfos	38.15 + 0.15 / - 0.15
	Franklin	38.18 + 0.12 / - 0.12
6"	Grundfos	73.00 + 0.00 / - 0.4
	Franklin	73.00 + 0.02 / - 0.12

11. Checking the motor

11.1 Winding resistance

1. Disconnect the power supply to the motor.
2. Remove the submersible drop cable from the power supply.
3. Measure the winding resistance between the leads of the drop cable.
   For three-phase motors, the deviation between the highest and the lowest value should not exceed 10 %. If the deviation is higher, pull out the motor. Measure motor, motor cable and drop cable separately, and repair or replace defective parts.
   Note: On single-phase, 3-wire motors, the operating winding will assume the lowest resistance value.

11.2 Insulation resistance

1. Disconnect the power supply to the motor.
2. Remove the submersible drop cable from the power supply.
3. Measure the insulation resistance from each phase to earth (frame). Make sure that the earth connection is made carefully.
   If the insulation resistance is lower than 0.5 MΩ, the motor should be pulled out for motor or cable repair. Local regulations may specify other values for the insulation resistance.

For further instructions, see the service instructions for MS/MMS.

12. Mounting the motor

12.1 Mounting the motor

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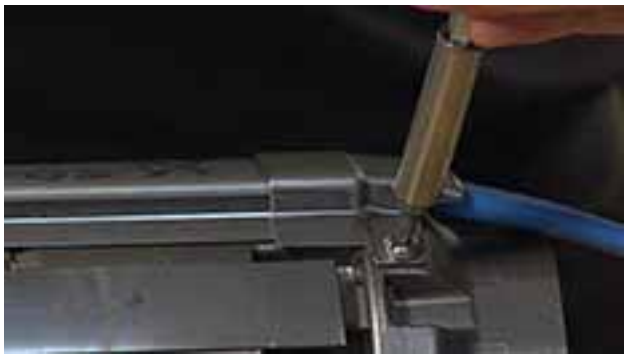
4. Mount the motor on the suction interconnector.
5. Mount bolts/nuts (pos. 22/22a).
6. Cross-tighten bolts/nuts (pos. 22/22a) according to the table on page 5.

12.2 Fitting the cable guard

TM06 3105 4014

1. Place the cable along the chamber stack, and position cable guard (pos. 18) over the cable.



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2. Mount clamps (pos. 18b/18c) at the top and bottom of the chamber stack.
3. Mount screws (pos. 18d) in the top and bottom clamps. Tighten the screws with the specified torque, using a torque screwdriver (pos. T). See section *4. Tightening torques and lubricants*.

13. Drawings

13.1 Exploded view

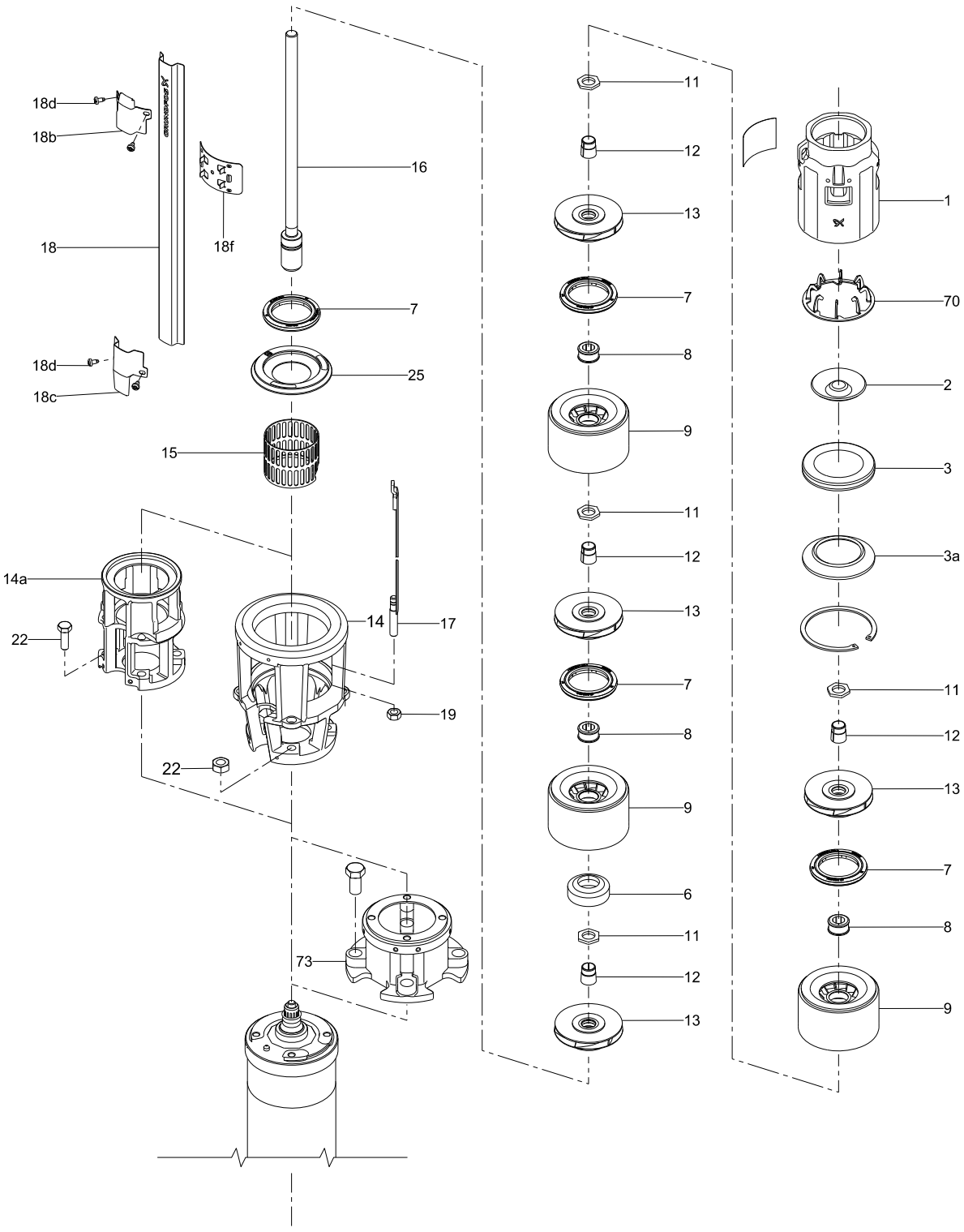

Fig. 7 SP7, SP9, SP11, SP14

13.2 Exploded view (with sleeve)

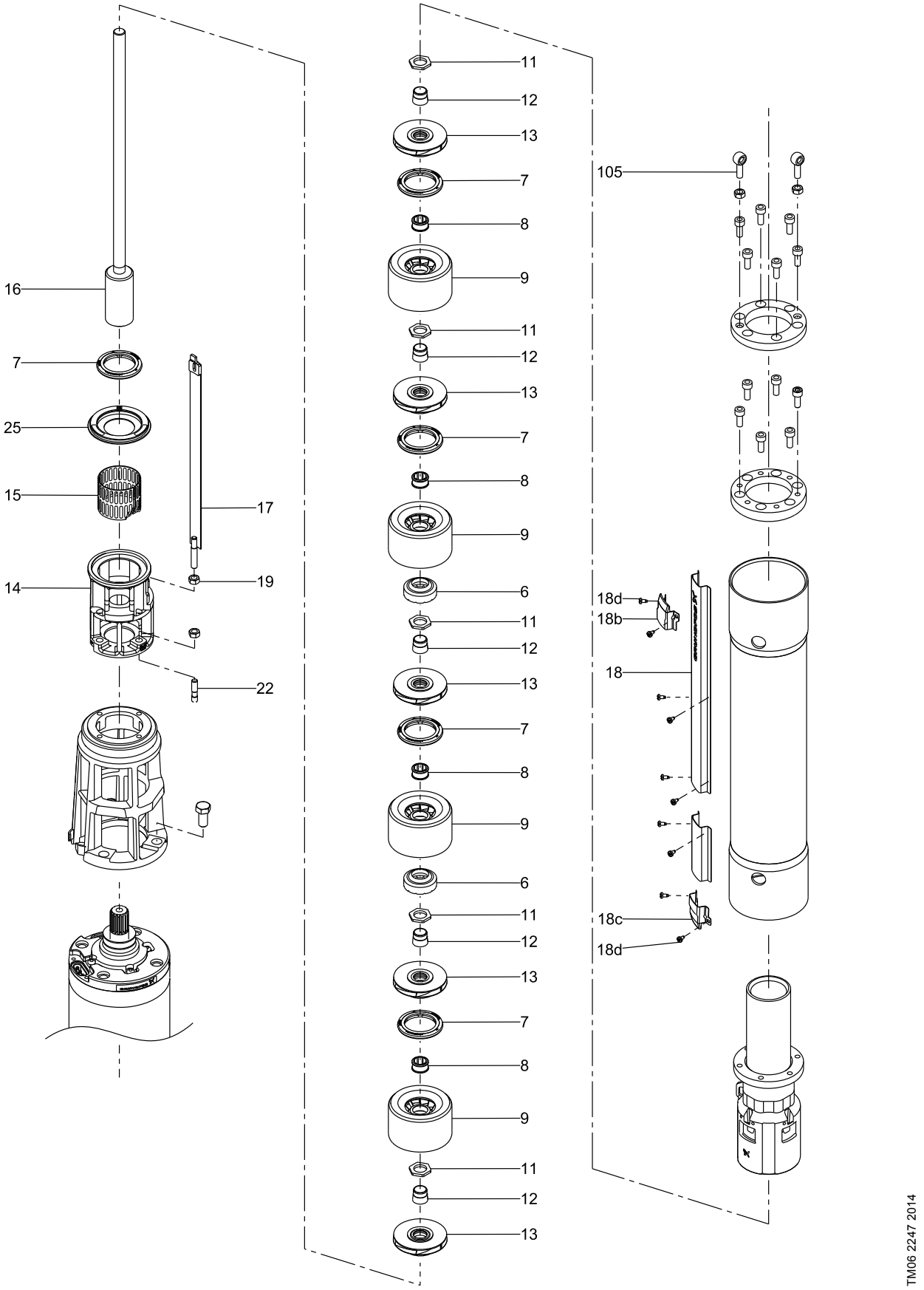

Fig. 8 SP7, SP9, with sleeve

13.3 Sectional drawing

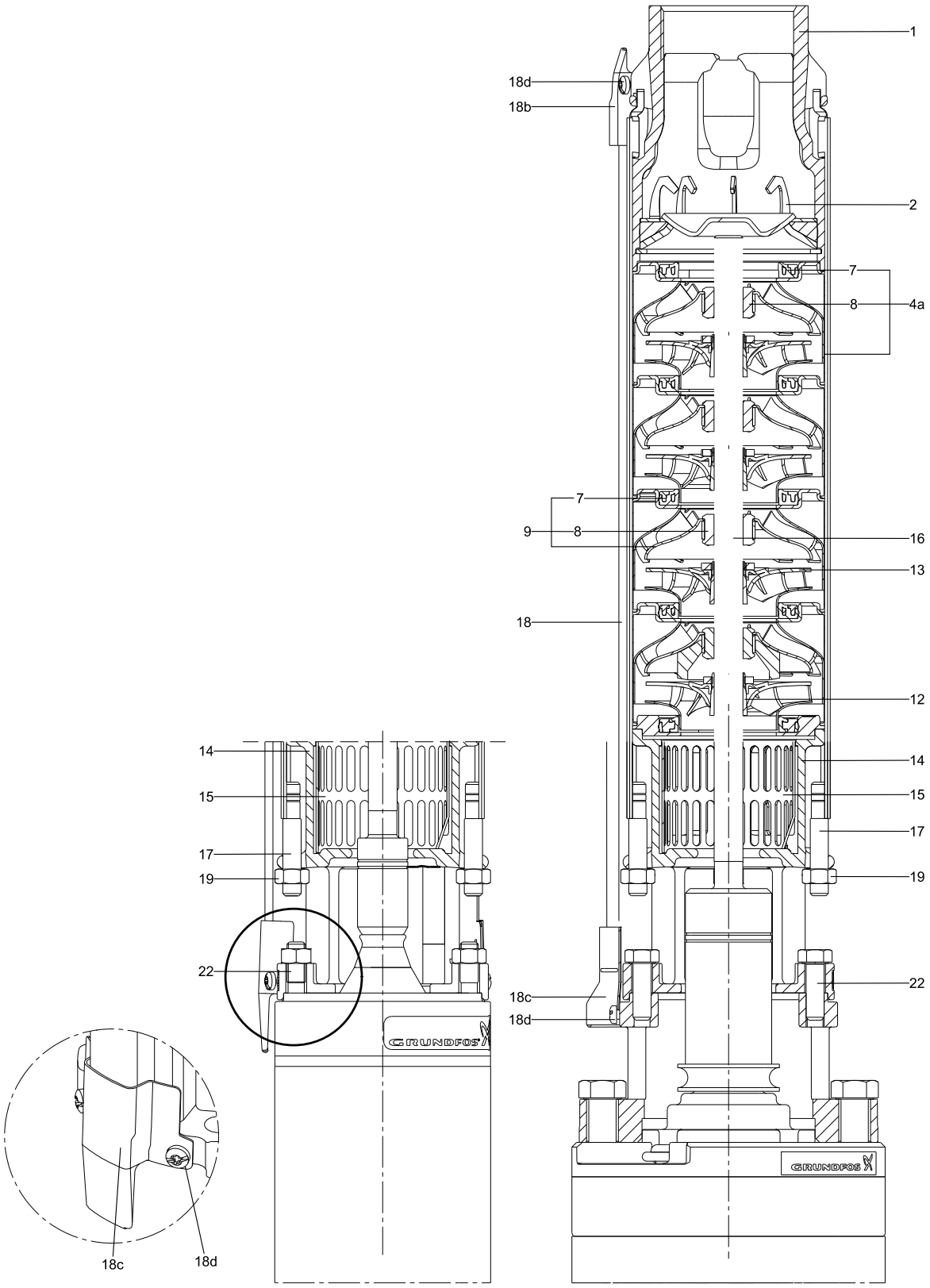

Fig. 9 SP 9

Pos.	Description
1	Standard valve casing
2	Valve cup
3	Valve seat
3a	Valve retainer
6	Upthrust bearing
7	Neck ring
8	Rubber bearing
9	Chamber, complete
11	Split cone nut
12	Split cone
13	Impeller, complete
14	Suction interconnector 6"
14a	Suction interconnector 4"
15	Strainer

Pos.	Description
16	Shaft
17	Strap
18	Cable guard
18b	Clamp, top
18c	Clamp, bottom
18d	Screw
18f	Bracket
19	Nut for staybolt
22	Bolt/stay bolt
22a	Nut
68	Neck ring, bottom
70	Valve guide
72	Wear ring
73	Connection piece 8"

14. Analysis check list

Component	Problem	Yes/No	Comment
Inspect before dismantling			
Motor	Any dents in motor?		
	Damaged motor cable?		
	Cable plug intact?		
	Damaged motor/submersible drop cable joint?		
	Damaged submersible drop cable?		
	Signs of corrosion, where?		
Pump	Broken or damaged strainer?		
	Non-return valve functional?		
	Any loose straps?		
	Any dents, in pump?		
	Signs of corrosion, where?		
Inspect during dismantling			
Motor	Motor shaft undamaged?		
	Measure shaft height [mm]		
	Does it turn freely? (a light resistance is expected)		
Pump	Pump coupling undamaged?		
	Measure axial clearance, top position [mm]		
	Measure axial clearance, bottom position [mm]		
	Does it turn freely? (a light resistance is expected)		
Straps	Are the straps intact?		
	Check weldings, threads, and that strap lengths are equal?		
Valve casing	Wear on valve cup?		
	Wear on valve seat?		
Chambers, impellers, and upthrust bearing	Wear on rubber bearing?		
	Are the chamber guide vanes intact?		
	Wear on neck ring?		
	Wear on split cone and nut?		
	Wear on impeller?		
	Are the impeller blades intact?		
	Signs of corrosion, where?		
	Is the upthrust bearing intact?		
Suction interconnector and retainer for neck ring	Wear on neck ring?		
	Is retainer for neck ring intact?		
	Signs of corrosion, where?		
	Is suction interconnector and strainer intact?		
Shaft	Free of wear, burrs and scratches?		
	Is shaft coupling intact		
	Is the shaft straight?		
	Signs of corrosion, where?		

Subject to alterations.

Argentina
Bombas GRUNDFOS de Argentina S.A.
Ruta Panamericana km. 37.500 Centro Industrial Garin
1619 Garín Pcia. de B.A.
Phone: +54-3327 414 444
Telefax: +54-3327 45 3190

Australia
GRUNDFOS Pumps Pty. Ltd.
P.O. Box 2040
Regency Park
South Australia 5942
Phone: +61-8-8461-4611
Telefax: +61-8-8340 0155

Austria
GRUNDFOS Pumpen Vertrieb Ges.m.b.H.
Grundfosstraße 2
A-5082 Grödig/Salzburg
Tel.: +43-6246-883-0
Telefax: +43-6246-883-30

Belgium
N.V. GRUNDFOS Bellux S.A.
Boomsesteenweg 81-83
B-2630 Aartselaar
Tél.: +32-3-870 7300
Télécopie: +32-3-870 7301

Belarus
Представительство ГРУНДФОС в Минске
220125, Минск
ул. Шафарнянская, 11, оф. 56, БЦ «Порт»
Тел.: +7 (375 17) 286 39 72/73
Факс: +7 (375 17) 286 39 71
E-mail: minsk@grundfos.com

Bosna and Herzegovina
GRUNDFOS Sarajevo
Zmaja od Bosne 7-7A,
BH-71000 Sarajevo
Phone: +387 33 592 480
Telefax: +387 33 590 465
www.ba.grundfos.com
e-mail: grundfos@bih.net.ba

Brazil
BOMBAS GRUNDFOS DO BRASIL
Av. Humberto de Alencar Castelo Branco, 630
CEP 09850 - 300
São Bernardo do Campo - SP
Phone: +55-11 4393 5533
Telefax: +55-11 4343 5015

Bulgaria
Grundfos Bulgaria EOOD
Slatina District
Iztochna Tangenta street no. 100
BG - 1592 Sofia
Tel. +359 2 49 22 200
Fax. +359 2 49 22 201
email: bulgaria@grundfos.bg

Canada
GRUNDFOS Canada Inc.
2941 Brighton Road
Oakville, Ontario
L6H 6C9
Phone: +1-905 829 9533
Telefax: +1-905 829 9512

China
GRUNDFOS Pumps (Shanghai) Co. Ltd.
10F The Hub, No. 33 Suhong Road
Minhang District
Shanghai 201106
PRC
Phone: +86 21 612 252 22
Telefax: +86 21 612 253 33

Croatia
GRUNDFOS CROATIA d.o.o.
Buzinski prilaz 38, Buzin
HR-10010 Zagreb
Phone: +385 1 6595 400
Telefax: +385 1 6595 499
www.hr.grundfos.com

Czech Republic
GRUNDFOS s.r.o.
Čajkovského 21
779 00 Olomouc
Phone: +420-585-716 111
Telefax: +420-585-716 299

Denmark
GRUNDFOS DK A/S
Martin Bachs Vej 3
DK-8850 Bjerringbro
Tlf.: +45-87 50 50 50
Telefax: +45-87 50 51 51
E-mail: info_GDK@grundfos.com
www.grundfos.com/DK

Estonia
GRUNDFOS Pumps Eesti OÜ
Peterburi tee 92G
11415 Tallinn
Tel: + 372 606 1690
Fax: + 372 606 1691

Finland
OY GRUNDFOS Pumput AB
Trukkikuja 1
FI-01360 Vantaa
Phone: +358-(0) 207 889 500
Telefax: +358-(0) 207 889 550

France
Pompes GRUNDFOS Distribution S.A.
Parc d'Activités de Chesnes
57, rue de Malacombe
F-38290 St. Quentin Fallavier (Lyon)
Tél.: +33-4 74 82 15 15
Télécopie: +33-4 74 94 10 51

Germany
GRUNDFOS GMBH
Schlüterstr. 33
40699 Erkrath
Tel.: +49-(0) 211 929 69-0
Telefax: +49-(0) 211 929 69-3799
e-mail: infoservice@grundfos.de
Service in Deutschland:
e-mail: kundendienst@grundfos.de

Greece
GRUNDFOS Hellas A.E.B.E.
20th km. Athinon-Markopoulou Av.
P.O. Box 71
GR-19002 Peania
Phone: +0030-210-66 83 400
Telefax: +0030-210-66 46 273

Hong Kong
GRUNDFOS Pumps (Hong Kong) Ltd.
Unit 1, Ground floor
Siu Wai Industrial Centre
29-33 Wing Hong Street &
68 King Lam Street, Cheung Sha Wan
Kowloon
Phone: +852-27861706 / 27861741
Telefax: +852-27858664

Hungary
GRUNDFOS Hungária Kft.
Park u. 8
H-2045 Törökbálint,
Phone: +36-23 511 110
Telefax: +36-23 511 111

India
GRUNDFOS Pumps India Private Limited
118 Old Mahabalipuram Road
Thoraipakkam
Chennai 600 096
Phone: +91-44 2496 6800

Indonesia
PT. GRUNDFOS POMPA
Graha Intirub Lt. 2 & 3
Jln. Cililitan Besar No.454. Makasar,
Jakarta Timur
ID-Jakarta 13650
Phone: +62 21-469-51900
Telefax: +62 21-460 6910 / 460 6901

Ireland
GRUNDFOS (Ireland) Ltd.
Unit A, Merrywell Business Park
Ballymount Road Lower
Dublin 12
Phone: +353-1-4089 800
Telefax: +353-1-4089 830

Italy
GRUNDFOS Pompe Italia S.r.l.
Via Gran Sasso 4
I-20060 Truccazzano (Milano)
Tel.: +39-02-95838112
Telefax: +39-02-95309290 / 95838461

Japan
GRUNDFOS Pumps K.K.
Gotanda Metalion Bldg., 5F,
5-21-15, Higashi-gotanda
Shiagawa-ku, Tokyo
141-0022 Japan
Phone: +81 35 448 1391
Telefax: +81 35 448 9619

Korea
GRUNDFOS Pumps Korea Ltd.
6th Floor, Aju Building 679-5
Yeoksam-dong, Kangnam-ku, 135-916
Seoul, Korea
Phone: +82-2-5317 600
Telefax: +82-2-5633 725

Latvia
SIA GRUNDFOS Pumps Latvia
Deglava biznesa centrs
Augusta Deglava ielā 60, LV-1035, Rīga,
Tālr.: + 371 714 9640, 7 149 641
Fakss: + 371 914 9646

Lithuania
GRUNDFOS Pumps UAB
Smolensko g. 6
LT-03201 Vilnius
Tel: + 370 52 395 430
Fax: + 370 52 395 431

Malaysia
GRUNDFOS Pumps Sdn. Bhd.
7 Jalan Peguam U1/25
Glenmarie Industrial Park
40150 Shah Alam
Selangor
Phone: +60-3-5569 2922
Telefax: +60-3-5569 2866

Mexico
Bombas GRUNDFOS de México S.A. de C.V.
Boulevard TLC No. 15
Parque Industrial Stiva Aeropuerto
Apodaca, N.L. 66600
Phone: +52-81-8144 4000
Telefax: +52-81-8144 4010

Netherlands
GRUNDFOS Netherlands
Veluwezoom 35
1326 AE Almere
Postbus 22015
1302 CA ALMERE
Tel.: +31-88-478 6336
Telefax: +31-88-478 6332
E-mail: info_gnl@grundfos.com

New Zealand
GRUNDFOS Pumps NZ Ltd.
17 Beatrice Tinsley Crescent
North Harbour Industrial Estate
Albany, Auckland
Phone: +64-9-415 3240
Telefax: +64-9-415 3250

Norway
GRUNDFOS Pumper A/S
Strømsveien 344
Postboks 235, Leirdal
N-1011 Oslo
Tlf.: +47-22 90 47 00
Telefax: +47-22 32 21 50

Poland
GRUNDFOS Pompy Sp. z o.o.
ul. Klonowa 23
Baranowo k. Poznania
PL-62-081 Przeźmierowo
Tel: (+48-61) 650 13 00
Fax: (+48-61) 650 13 50

Portugal
Bombas GRUNDFOS Portugal, S.A.
Rua Calvet de Magalhães, 241
Apartado 1079
P-2770-153 Paço de Arcos
Tel.: +351-21-440 76 00
Telefax: +351-21-440 76 90

Romania
GRUNDFOS Pompe România SRL
Bd. Biruintei, nr 103
Pantelimon county Ilfov
Phone: +40 21 200 4100
Telefax: +40 21 200 4101
E-mail: romania@grundfos.ro

Russia
ООО Грундфос Россия
109544, г. Москва, ул. Школьная, 39-41, стр. 1
Тел. (+7) 495 564-88-00 (495) 737-30-00
Факс (+7) 495 564 88 11
E-mail grundfos.moscow@grundfos.com

Serbia
Grundfos Srbija d.o.o.
Omladinskih brigada 90b
11070 Novi Beograd
Phone: +381 11 2258 740
Telefax: +381 11 2281 769
www.rs.grundfos.com

Singapore
GRUNDFOS (Singapore) Pte. Ltd.
25 Jalan Tukang
Singapore 619264
Phone: +65-6681 9688
Telefax: +65-6681 9689

Slovakia
GRUNDFOS s.r.o.
Prievozská 4D
821 09 BRATISLAVA
Phona: +421 2 5020 1426
sk.grundfos.com

Slovenia
GRUNDFOS d.o.o.
Šlandrova 8b, SI-1231 Ljubljana-Črnuče
Phone: +386 31 718 808
Telefax: +386 (0)1 5680 619
E-mail: slovenia@grundfos.si

South Africa
GRUNDFOS (PTY) LTD
Corner Mountjoy and George Allen Roads
Wilbart Ext. 2
Bedfordview 2008
Phone: (+27) 11 579 4800
Fax: (+27) 11 455 6066
E-mail: lsmart@grundfos.com

Spain
Bombas GRUNDFOS España S.A.
Camino de la Fuentecilla, s/n
E-28110 Algete (Madrid)
Tel.: +34-91-848 8800
Telefax: +34-91-628 0465

Sweden
GRUNDFOS AB
Box 333 (Lunnagårdsgatan 6)
431 24 Mölndal
Tel.: +46 31 332 23 000
Telefax: +46 31 331 94 60

Switzerland
GRUNDFOS Pumpen AG
Bruggacherstrasse 10
CH-8117 Fällanden/ZH
Tel.: +41-44-806 8111
Telefax: +41-44-806 8115

Taiwan
GRUNDFOS Pumps (Taiwan) Ltd.
7 Floor, 219 Min-Chuan Road
Taichung, Taiwan, R.O.C.
Phone: +886-4-2305 0868
Telefax: +886-4-2305 0878

Thailand
GRUNDFOS (Thailand) Ltd.
92 Chaloem Phrakiat Rama 9 Road,
Dokmai, Pravej, Bangkok 10250
Phone: +66-2-725 8999
Telefax: +66-2-725 8998

Turkey
GRUNDFOS POMPA San. ve Tic. Ltd. Sti.
Gebze Organize Sanayi Bölgesi
Ihsan dede Caddesi,
2. yol 200. Sokak No. 204
41490 Gebze/ Kocaeli
Phone: +90 - 262-679 7979
Telefax: +90 - 262-679 7905
E-mail: satis@grundfos.com

Ukraine
Бізнес Центр Європа
Столичне шосе, 103
м. Київ, 03131, Україна
Телефон: (+38 044) 237 04 00
Факс.: (+38 044) 237 04 01
E-mail: ukraine@grundfos.com

United Arab Emirates
GRUNDFOS Gulf Distribution
P.O. Box 16768
Jebel Ali Free Zone
Dubai
Phone: +971 4 8815 166
Telefax: +971 4 8815 136

United Kingdom
GRUNDFOS Pumps Ltd.
Grovebury Road
Leighton Buzzard/Beds. LU7 4TL
Phone: +44-1525-850000
Telefax: +44-1525-850011

U.S.A.
GRUNDFOS Pumps Corporation
17100 West 118th Terrace
Olathe, Kansas 66061
Phone: +1-913-227-3400
Telefax: +1-913-227-3500

Uzbekistan
Grundfos Tashkent, Uzbekistan The Representative Office of Grundfos Kazakhstan in Uzbekistan
38a, Oybek street, Tashkent
Телефон: (+998) 71 150 3290 / 71 150 3291
Факс: (+998) 71 150 3292

Addresses Revised 29.09.2015

98824498 0116
ECM: 1174937