JPA, JPC, JPD PT

Pumps and boosters

Installation and operating instructions

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Original installation and operating instructions

These installation and operating instructions describe Grundfos JPC, JPA and JPD pumps.

Sections 1-3 give the information necessary to be able to unpack, install and start up the product in a safe way.

Sections 4-8 give important information about the product, as well as information on service, fault finding and disposal of the product.

CONTENTS

Read this document and the quick guide before installing the product. Installation and operation must comply with local regulations and accepted codes of good practice.

This appliance can be used by children aged from 8 years and above and by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Make sure that the system in which the pump is incorporated is designed for the maximum pump pressure.

This pump has been evaluated for use with water only.

1. General information

1.1 Symbols used in this document

DANGER

Indicates a hazardous situation which, if not avoided, will result in death or serious personal injury.

WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious personal injury.

CAUTION

Indicates a hazardous situation which, if not avoided, could result in minor or moderate personal injury.

The text accompanying the three hazard symbols DANGER, WARNING and CAUTION is structured in the following way:

SIGNAL WORD

Description of hazard

Consequence of ignoring the warning.

- Action to avoid the hazard.

A blue or grey circle with a white graphical symbol indicates that an action must be taken.

A red or grey circle with a diagonal bar, possibly with a black graphical symbol, indicates that an action must not be taken or must be stopped.

Tips and advice that make the work easier.

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

2. Installing the product

Observe local regulations concerning limits for manual lifting or handling.

CAUTION

Crushing of feet

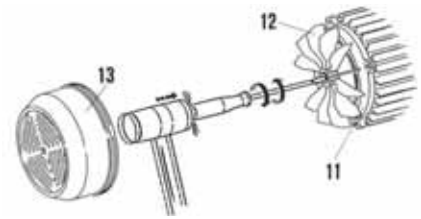
Minor or moderate personal injury

- Use safety shoes when handling the pump.

2.1 Checking the product prior to installation

Check that the rotating parts turn freely. Position numbers refer to fig. 1.

1. Remove the fan cover (13) from the motor.
2. Insert a screwdriver in the notch on the motor shaft.
3. If the rotor is blocked, turn the screwdriver, tapping it gently with a hammer.



TM06 4529 2515

Fig. 1 Checking the rotating parts

2.2 Location

Install the pump in a well-ventilated location, protected from rain, snow and direct sunlight. The ambient temperature must not exceed 35 or 55 °C. See the nameplate.

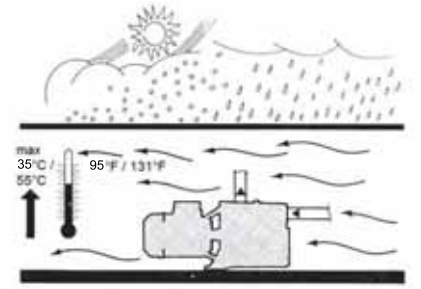


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Fig. 2 Weather conditions

We recommend that you place the pump as close as possible to the liquid to be pumped.

2.2.1 Frost protection

If the pump is not used during periods of frost, it must be drained to avoid damage.

Remove the drain plug to drain the pump. See fig. 3.

TM06 8026 4516

Fig. 3 Draining the pump

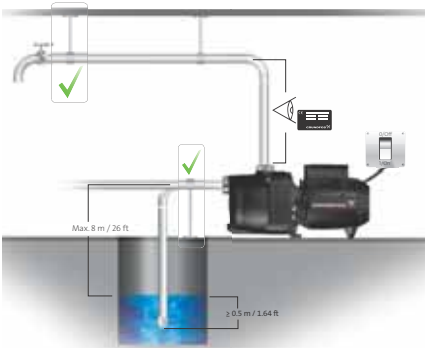
2.3 Mechanical installation

2.3.1 Positioning the product

Install the pump in horizontal position.

Install the pump so that it is not stressed by the pipes.

We recommend that you fasten the pump to the foundation and use pipe hangers, thus ensuring that vibrations caused by pump operation are absorbed. See fig. 4.



TM06 8024 4216

Fig. 4 Fastening the pump and the pipes

2.3.2 Pipe connection

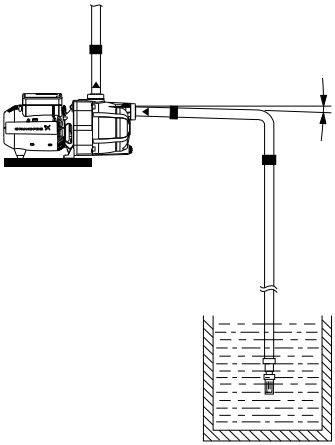
The internal diameters of the pipes must never be smaller than that of the openings of the pump.

If the inlet pipe is longer than 10 m or the suction lift is greater than 4 m, the diameter of the pipe must be larger than 1". If a hose is used as inlet pipe, it must be non-collapsible.

To prevent solids from entering the pump, you can fit a filter to the inlet pipe. We recommend that you fit a foot valve on the inlet side.

For suction lifts of over 4 m or for long horizontal stretches, we recommend that you use an inlet pipe with a diameter larger than the inlet opening of the pump.

To prevent formation of air pockets, the inlet pipe must slope slightly upwards towards the pump. See fig. 5.

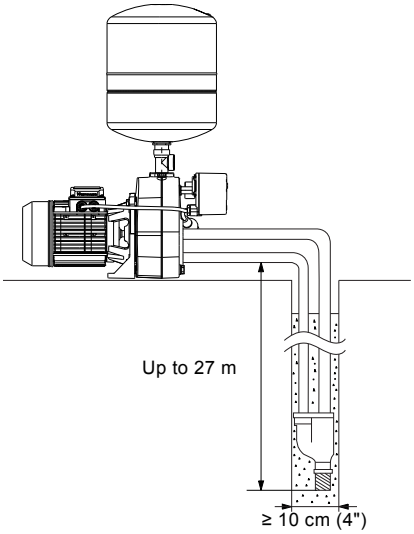


TM06 4532 2515

Fig. 5 Inlet pipe sloping upwards

2.3.3 JPD deep-well installation

A JPD must have the ejector installed in the well. This means that two pipes are needed for the suction installation.



TM06 5436 4615

Fig. 6 JPD PT installation

2.4 Electrical connection

Carry out the electrical connection according to local regulations.

Check that the supply voltage and frequency correspond to the values stated on the nameplate and that it is possible to make a good earth connection.

Single-phase motors incorporate a thermal switch and require no additional motor protection.

DANGER

Electric shock

Death or serious personal injury

- Before starting any work on the product, make sure that the power supply has been switched off and that it cannot be accidentally switched on.

DANGER

Electric shock

Death or serious personal injury

- The protective earth of the socket outlet must be connected to the protective earth of the pump. The plug must therefore have the same PE connection system as that of the socket outlet. If not, use a suitable adapter.

We recommend that you fit the permanent installation with a residual-current circuit breaker (RCCB) with a tripping current less than 30 mA.

DANGER

Electric shock

Death or serious personal injury

- If the pump is used for cleaning or maintenance of swimming pools, garden ponds or similar places, make sure that the pump is supplied through a residual-current circuit breaker, RCCB, with a rated residual operating current of 30 mA.

DANGER

Electric shock

Death or serious personal injury

- Power supply cables without a plug must be connected to a supply disconnecting device incorporated in the fixed wiring according to the local wiring rules.

DANGER

Electric shock

Death or serious personal injury

- The pump must be earthed.

2.4.1 Wiring diagram

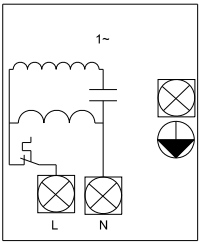


Fig. 7 1-phase pumps

TM06 3322 5015

3. Starting up the product

WARNING

Flammable material

Death or serious personal injury

- Do not use the pump for flammable liquids, such as diesel oil, petrol or similar liquids.

CAUTION

Impurities in water

Minor or moderate personal injury

- Flush the system with clean water to remove all impurities before you start the pump.

CAUTION

Hot surface

Minor or moderate personal injury

- Do not run pump continuously with a closed inlet or outlet valve.

WARNING

Corrosive substance

Death or serious personal injury

- Do not use the pump for aggressive liquids.

CAUTION

Hot or cold liquid

Minor or moderate personal injury

- Make sure that the escaping hot or cold liquid does not cause injury to persons or damage to the equipment.

CAUTION

Hot surface

Minor or moderate personal injury

- Use protective gloves if the liquid or ambient temperature is higher than 40 °C.

DANGER

Electric shock

Death or serious personal injury

- Do not use the pump in swimming pools, garden ponds or similar places if there are people in the water.

Do not start the pump until it has been filled with liquid.

The pump must not be started more than 20 times per hour.

The pump must not run without delivering water for more than five minutes.

3.1 Priming the pump

1. Remove the priming plug. See fig. 8.
2. Fill the pump with water.
3. Refit the priming plug and tighten by hand.

The pump can now be started.

TM06 8025 4516

Fig. 8 Priming the pump

If there is a suction lift, up to five minutes may pass from the moment the pump is started until it delivers water. This period depends on the length and diameter of the inlet pipe.

Do not start the pump until it has been filled with liquid.

3.2 Shaft seal run-in

The seal faces are lubricated by the pumped liquid, meaning that there may be a certain amount of leakage from the shaft seal.

When the pump is started up for the first time, or when a new shaft seal has been installed, a certain run-in period is required before the leakage is reduced to an acceptable level. The time required for this depends on the operating conditions, i.e. every time the operating conditions change, a new run-in period will be started.

Under normal conditions, the leaking liquid will evaporate. As a result, no leakage will be detected.

4. Product introduction

4.1 JPA JPC

JPA and JPC pumps are horizontal, self-priming centrifugal pumps.

JPA pumps are made of cast iron, and the JPC pumps are made of a composite material.

The pumps are designed for pumping water and other thin, non-aggressive and non-explosive liquids, not containing solid particles or fibres.

The pumps are especially suited for use in small-scale agriculture and gardening.

The pumps can be permanently connected to the water mains or connected to a hose set.

TM06 5406 4515
TM06 5410 4515
TM06 5411 4515

Fig. 9 JPA pumps

TM05 5091 3212

Fig. 10 JPC pump

4.2 JPA PM, JPC PM, JPA PT, JPC PT

JPA PM and JPC PM are compact boosters consisting of a JPA pump and a Grundfos Pressure Manager (PM 1 version). To reduce the number of starts and stops, an external tank can be installed.

JPA PT and JPC PT are boosters consisting of a pump, a pressure switch, a pressure gauge and a diaphragm tank. The pressure switch automatically starts the pump according to demand. The diaphragm tank ensures a constant water pressure in the water supply.

TM06 5408 4515
TM06 5409 4515
TM06 6703 2216

Fig. 11 JPA PM and PT boosters

TM05 8007 2216

Fig. 12 JPC PM and JPC PT

4.3 JPD PT

JPD PT are self-priming centrifugal boosters for suction lifts up to 27 m. The pump body is made of cast iron. The high suction lift is achieved by means of an ejector which can be inserted into wells with a diameter of down to 10 cm (4"). The boosters are especially suited for use in small-scale agriculture and water supply to farmhouses.

TM06 5413 4515 - TM06 5415 4515

Fig. 13 JPD boosters

4.4 Identification

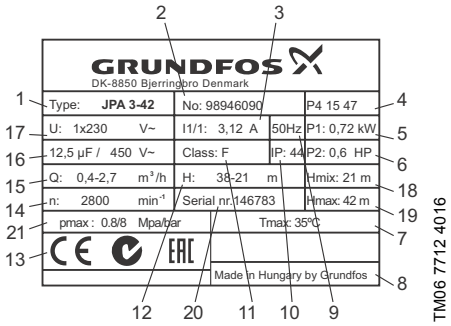


Fig. 14 Nameplate, JPA

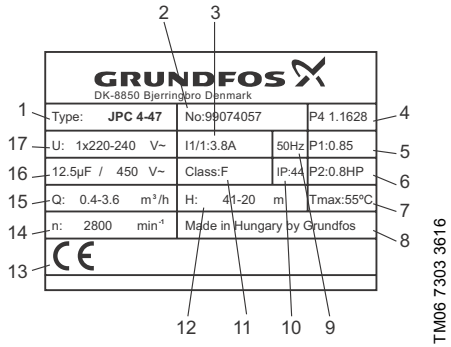


Fig. 15 Nameplate, JPC

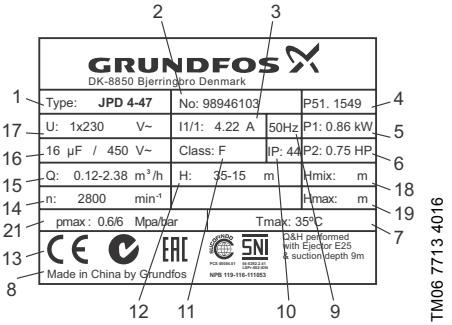


Fig. 16 Nameplate, JPD

Pos.	Description
1	Pump type
2	Product number
3	Full-load current
4	Factory and production date
5	Motor input power
6	Pump output power
7	Maximum temperature
8	Country of production
9	Frequency
10	Enclosure class
11	Motor insulation class
12	Head
13	Approvals
14	Speed
15	Maximum flow rate
16	Capacitor data
17	Supply voltage
18	Minimum head
19	Maximum head
20	Serial number
21	Maximum pressure

5. Servicing the product

5.1 Maintaining the product

In normal operation, the pump does not require any specific maintenance.

5.1.1 Safety instructions and requirements

DANGER

Electric shock

Death or serious personal injury

- If the power supply cable is damaged, it must be replaced by the manufacturer, his service agent or similarly qualified persons in order to avoid hazard.

Service must only be performed by trained service staff.

5.2 Spare parts and kits

Service kits are available for the JPA, JPC, JPD pumps and boosters.

The service kits consist of the following replaceable parts:

- shaft seal
- hydraulic parts
- capacitor.

6. Fault finding

DANGER

Electric shock

Death or serious personal injury

- Switch off the power supply before starting any work on the product. Make sure that the power supply cannot be accidentally switched on.

Fault	Cause	Remedy
1. The pump does not start.	a) Supply failure.	Cut in the circuit breaker or replace the fuses. If the new fuses also blow, check the electric installation.
	b) The pump is blocked by impurities.	Clean the pump. Check or replace the strainer in the inlet pipe.
	c) The motor is defective.	Replace the pump.
2. The pump runs, but gives no or just a little water.	a) The pump is not filled with water.	Prime the pump. See section *3. Starting up the product*.
	b) The inlet pipe is blocked by impurities.	Clean the inlet pipe. Check or replace the strainer in the inlet pipe.
	c) The pump is blocked by impurities.	Clean the pump. Check or replace the strainer in the inlet pipe.
	d) The suction lift is too high. JPA, JPC: Maximum 7 m. JPD: Maximum 27 m.	Change the position of the pump.
	e) The inlet pipe is too long.	Change the position of the pump.
	f) The diameter of the inlet pipe is too small.	Replace the inlet pipe.
	g) The inlet pipe is not immersed deeply enough.	Make sure that the inlet pipe is immersed sufficiently.
	h) The inlet pipe is leaking.	Repair or replace the pipe.
3. The pump runs, but gives no water or delivers a reduced quantity of water at high pressure.	a) The outlet pipe is blocked.	Clean the pipe or open the isolating valves, if fitted. Check that no additional work is being carried out in the system.
4. The motor cuts out during operation.	a) The thermal switch in the motor has tripped due to overheating.	The thermal switch will cut in automatically when the motor has cooled sufficiently. If the problem persists, check these two possible causes: • The impeller is stuck. Clean the pump. • The motor is defective. Replace the pump.

7. Technical data

Maximum ambient temperature

35 or 55 °C. See the nameplate.

Liquid temperature

Domestic use: 0-35 °C or 0-60 °C. See the nameplate.

Other use: 0-40 °C.

Maximum operating pressure

6 bar, 600 kPa.

Maximum flow rate

Pump type	[m^3/h]
JPA 3-42 / JPA 3-42 PT-H	3
JPA 4-47 / JPA 4-47 PT-H / JPA 4-47 PT-V	4
JPA 4-54 / JPA 4-54 PT-H / JPA 4-54 PT-V	4
JPA 5-61 / JPA 5-61 PT-V	5
JPA 8-62 / JPA 8-62 PT-V	8
JPA 12-41	12
JPA 12-51	12
JPC 3-42 / JPC 3-42 PT	3
JPC 4-47 / JPC 4-47 PT	4
JPC 4-54 / JPC 4-54 PT	4
JPC 5-48	5
JPD 4-47 PT	4
JPD 4-54 PT	4
JPD 5-61 PT	5
JPD 8-62 PT	8

Maximum head

Pump type	[m]
JPA 3-42 / JPA 3-42 PT-H	42
JPA 4-47 / JPA 4-47 PT-H / JPA 4-47 PT-V	47
JPA 4-54 / JPA 4-54 PT-H / JPA 4-54 PT-V	54
JPA 5-61 / JPA 5-61 PT-V	61
JPA 8-62 / JPA 8-62 PT-V	62
JPA 12-41	41
JPA 12-51	51
JPC 3-42 / JPC 3-42 PT	42
JPC 4-47 / JPC 4-47 PT	47
JPC 4-54 / JPC 4-54 PT	54
JPC 5-48	48
JPD 4-47 PT	47
JPD 4-54 PT	54
JPD 5-61 PT	61
JPD 8-62 PT	62

Maximum inlet pressure

Pump type	[bar]	[MPa]
JPA 3-42 / JPA 3-42 PT-H	3.8	0.38
JPA 4-47 / JPA 4-47 PT-H / JPA 4-47 PT-V	3.3	0.33
JPA 4-54 / JPA 4-54 PT-H / JPA 4-54 PT-V	2.6	0.26
JPA 5-61 / JPA 5-61 PT-V	1.9	0.19
JPA 8-62 / JPA 8-62 PT-V	1.8	0.18
JPA 12-41	3.9	0.39
JPA 12-51	2.9	0.29
JPC 3-42 / JPC 3-42 PT	1.8	0.18
JPC 4-47 / JPC 4-47 PT	1.3	0.13
JPC 4-54 / JPC 4-54 PT	0.6	0.06
JPC 5-48	1.2	0.12
JPD 4-47 PT	1.3	0.13
JPD 4-54 PT	0.6	0.06
JPD 5-61 PT	1.9	0.19
JPD 8-62 PT	1.8	0.18

Maximum suction lift

JPA, JPC: 8 m, including a pressure loss, at a liquid temperature of 20 °C.

JPD: 27 m.

Supply voltage

	JPA	JPC	JPD
1 x 115 V, 60 Hz	-	●	-
1 x 230 V, 60 Hz	-	●	-
1 x 230 V, 50 Hz	●	●	●

Insulation class

F.

Enclosure class

IP44.

Relative air humidity

Maximum 95 %.

Maximum sound pressure level

JPA, JPD: less than 77 dB(A).

JPC 3-42: 82.9 dB.

JPC 4-47: 84.8 dB.

JPC 4-54: 88.0 dB.

Frequency of starts and stops

Maximum 20 per hour.

8. Disposing of the product

This product or parts of it must be disposed of in an environmentally sound way:

1. Use the public or private waste collection service.
2. If this is not possible, contact the nearest Grundfos company or service workshop.

See also end-of-life information on www.grundfos.com.

The crossed-out wheelie bin symbol on a product means that it must be disposed of separately from household waste. When a product marked with this symbol reaches its end of life, take it to a collection point designated by the local waste disposal authorities. The separate collection and recycling of such products will help protect the environment and human health.

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