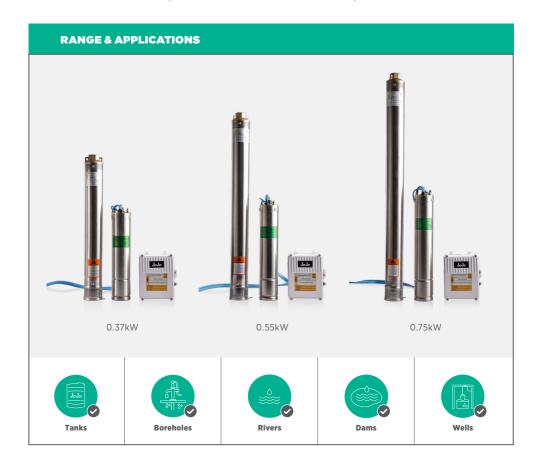


3" SDM Borehole Pump Range

Instructions for use May 2024

Features & Benefits

- 1-year Quality Warranty
- Supplied in kit-form
 Pre-assembled and ready-for-installation
- Made from premium construction materials ensuring durability and reliability
- Curve tolerance according to ISO 9906
- ✓ Waterproof cable joint
- ✓ Water hammer control
- Motor upthrust protection
 - Overload protection



1-year Quality Warranty

JoJo pumps purchased from an approved JoJo retail outlet and/or distributor carry a 1-year warranty from the date of purchase. In order to maintain your warranty, always ensure you install, operate and maintain the pump as per the instructions provided in this manual.



Detailed T's and C's, as well as return policies and procedures are in the back of this manual.

Important information

- All maintenance should be carried out with the power supply disconnected.
- The pump is designed for clean water use only, i.e. water containing no solid particles.
 Note: pumping muddy water or water containing suspended solids will severely reduce the lifespan of the unit and falls outside of the factory warranty.
- The pump is not designed for corrosive water with a volume ratio of sand content exceeding 0.25%.
- The pump is suitable for installations in tanks, boreholes, wells, rivers and dams with a minimum diameter of 4 inches.

Performance tables

Pump specifications	0.37kW	0.55kW	0.75kW
Pump model	3SDm2/15	3SDm2/21	3SDm2/27
Single-phase	220-240V/50Hz	220-240V/50Hz	220-240V/50Hz
Curve tolerance	According to ISO9906	According to ISO9906	According to ISO9906
Equipped with start control box	Yes	Yes	Yes
Discharge (inches)	1"	1"	1"
Fitted cable size	1.0mm²	1.0mm ²	1.5mm²
Fitted cable length (according to best efficiency range)	60	80	100

Motor specifications	0.37kW	0.55kW	0.75kW
Single-phase	220-240V/50Hz	220-240V/50Hz	220-240V/50Hz
Motor speed	2850 rpm	2850 rpm	2850 rpm
Capacitor	20 uF	25 uF	35 uF
Running current	4.2A	4.5A	6A

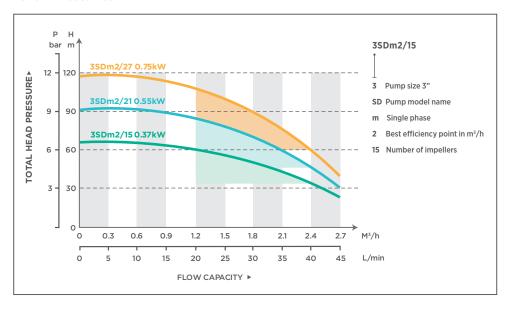
Operating conditions	0.37kW	0.55kW	0.75kW
Max. head	65 m	91 m	117 m
Max. flow	45 lt/min	45 lt/min	45 lt/min
Max. fluid temperature	35 °C	35 °C	35 °C
Max. sand content	0.25%	0.25%	0.25%
Min. well diameter	4 "	4 "	4 "
PH capability	6.5 to 8	6.5 to 8	6.5 to 8

Best efficiency ranges

Flow range	Lt/min
0.37kW	20 to 40
0.55kW	20 to 40
0.75kW	20 to 40

Head range	Meter
0.37kW	33 to 60
0.55kW	46 to 84
0.75kW	59 to 107

Performance curves

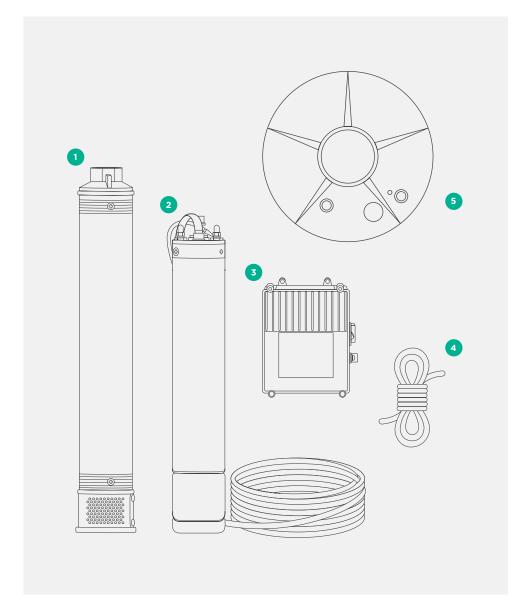


Additional details

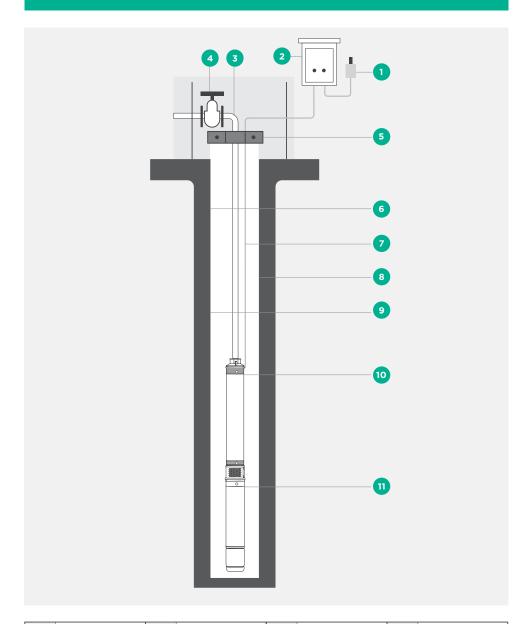
Dimensions and weights	0.37kW	0.55kW	0.75kW
Outlet diameter	1"	1"	1"
Height:			
Pump	535 mm	694 mm	830 mm
Motor	338 mm	368 mm	408 mm
Total (pump + motor)	873 mm	1 062 mm	1 238 mm
Weight:			
Pump	2.4 kg	3.2 kg	3.5 kg
Motor	5.6 kg	6.4 kg	7.5 kg
Total (pump + motor)	8.0 kg	9.6 kg	11 kg

Construction characteristics				
Wet end		Motor		
Pump external casing	AISI 304 SS	External casing	AISI 304 SS	
Delivery casing	Cast-Cu ASTM C85500	Top chock	Cast-Cu ASTM C85500	
Suction lantern	Cast-Cu ASTM C85500	Bottom support	AISI 304 SS	
Diffuser	Plastic.PC	Mechanical seal	Carbon - Ceramic	
Impeller	Plastic.POM	Shaft	AISI 304 SS - ASTM 5140	
Shaft	AISI 304 SS	Bearing	NSK	
Shaft coupling	AISI 304 SS	Seal lubricant oil	Food grade oil	
Wear ring	AISI 304 SS			

PUMP DIAGRAM



No.	Description	No.	Description
1	Pump	3	Control box with built-in capacitor and a 3-point plug
2	Motor with cable already connected	4	Ski-rope (0.37kW: 60m, 0.55kW: 80m, 0.75kW: 100m)
	(0.37kW: 60m, 0.55kW: 80m, 0.75kW: 100m)	5	A borehole baseplate



No.	Description	No.	Description	No.	Description	No.	Description
1	Circuit breaker	4	Valve	7	Cable	10	Pump
2	Control box	5	Baseplate	8	Borehole casing	11	Submersible motor
3	Delivery pipe	6	Static water level	9	Dynamic water level		

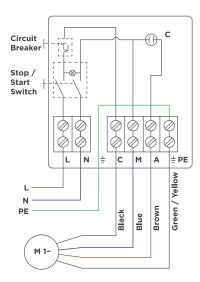
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PUMP CONTROLLER

This single phase control box is equipped with a capacitor and thermal overload protector. It provides basic protection against short-circuiting and over current.

Application range and control parameters				
Motor type	Single phase			
Motor power	0.18 to 1.5kW			
Voltage	220V to 240V			
Frequency	50Hz			
Installation environment temperature	-25°C to 55°C			
Installation environment humidity	(20 to 90)%RH			
Operating method	Manual			
Protection	IP44			

Specifications	0.37kW	0.55kW	0.75kW			
Power	0.50 HP	0.75 HP	1.00 HP			
Running capacitor:						
Rating	20 uF	25 uF	35 uF			
MCB:						
Current rating	8 A	10 A	15 A			



PRE-INSTALLATION

01. Borehole casing preparation

- Ensure that the borehole casing (protruding from the ground) is closed properly to prevent debris from entering the borehole.
- · Remove the soil around the casing to the depth of the borehole cover or at least 300mm below ground level.

02. Borehole casing modification

Shorten the casing below ground, leaving 20mm to create a smooth edge with. This edge will serve as a
mating surface for the borehole baseplate.

03. Trench preparation

• Dig a trench from the borehole to your water storage tank. Ensure that it is wide enough for the pipework and the power cable conduit, and has a minimum depth of 300mm.

WATER QUALITY TESTING

It is vital that borehole water be tested to ensure it is safe for household use and consumption.

INSTALLATION

01. Borehole pump piping

- Determine the depth of your borehole pump and cut your HDPE pipe accordingly, keeping in mind that it should extend from your pump to your tank. Important: Ensure to clean and deburr the pipe ends.
- Attach a non-return valve to the pump outlet. Note: This is important to protect the pump from water flowing
 back into the pump when it is switched off. Complete piping between the pump and the baseplate.

02. Cabling and securing

- Secure the H07 power cable to the borehole baseplate using a cable gland. Important: Be sure to use the
 correct size compression cable gland.
- Next, secure the H07 power cable to the piping using electrical insulation tape.
- Use ski rope provided to secure the borehole pump to the baseplate. Important: Ensure that no strain is
 placed on the cable or the piping.

03. Electrical connections and testing

Important: we recommend that all electrical work be done by a qualified professional.

- Place the borehole pump in a water container and power on the controller to test the the motor, pump and cable. Note: The testing is vital to ensure all is working prior to the pump installation.
- Disconnect the controller after the testing has been concluded.

04. Borehole pump installation

- Gently lower the borehole pump into the borehole, taking care not to damage it or pull on the power cable.
 Important: Ensure that the motor is suspended at least 2 meters from the bottom of the borehole.
- Measure the distance from the pump's depth to the controller and cut the pump's H07 power cable to the correct length. Note: It is advised to allow for approximately 1 meter of slack.
- Route the cable through the conduit to the pump controller.

05. Pump controller and float switch installation

Important: we recommend that all electrical work be done by a qualified professional.

- Mount the controller in a weather-sealed box to protect the electrical components from the elements.
- Install a float switch in your water storage tank. Secure the cable with a cable gland.
- Use a correctly-sized conduit to run the float switch cable to the pump controller.
- Connect the float switch to the controller while it is disconnected from the power supply.

06. Flush the system

We recommend using the water for irrigation or similar applications for 14 days to flush the system.

JOJO PUMP WARRANTY

Please read this warranty in conjunction with the South African Consumer Protection Act 68 of 2008.

O1. JoJo warrants its pumps to the original end user/purchaser to be free of defective materials and workmanship under normal use for a period of 12-months from the date of purchase from authorised retailers and distributors. To be eligible for warranty repair or replacement, the pump must be returned to the point of purchase during and up to the expiry date of the warranty period. Proof of date of purchase is required.

07

- **02.** Liability in terms of this warranty shall be limited to repair or replacement of the pump. Liability for any other losses or subsequent damages is expressly excluded.
- **03.** This warranty does not obligate JoJo to bear any cost of removal, installation, transportation, or other charges that may arise in connection with a warranty claim.
- **04.** The warranty shall not apply to repairs or service necessitated by normal wear and tear or for lack of reasonable and proper maintenance.

This warranty does not apply if in the sole judgement of JoJo the product or any of its components have been;

- (a) Tampered with, disassembled (unless as per JoJo's specific instructions relevant to peripheral pumps and clearly displayed on fan cover), repaired or altered (except as may be pre-authorised by JoJo in writing);
- (b) Subjected to misapplication, misuse, neglect or accident; or
- (c) Used to pump anything for which the pump was not designed. Such use may compromise or harm the pump and/or any of its components.

IMPORTANT: this is the exclusive warranty given by us and no other warranty or guarantees, expressed or implied shall be of any force or effect. No distributor or other person is authorised to assume any liability or obligation for JoJo other than expressly provided herein.

RETURN POLICIES AND PROCEDURES

Refunds

Within 5 days of purchase: as part of the cooling off clause (section 16 of the CPA), the pump may be returned for refund, provided that it is still within the original packaging, unused, and in the original condition.

Within 10 days of purchase: the pump may be returned for refund or replacement if it does not meet the purpose for which intended (section 20 of the CPA), provided that it is still within the original packaging, unused, and in the original condition. In such instance the pump will be returned to JoJo for an evaluation, after which an inspection report will be provided confirming whether it meets the necessary requirements for refund or replacement.

Returns/repairs

Within 12 months: should the pump not operate as specified, or cease to do so within 12 months after being purchased, the return procedure is as follows:

- Return the pump to the store from which purchased, together with the proof of purchase (to confirm that it is
 within the 12-month warranty period). Please ensure that the condition of the pump is as specified in section
 four of this warranty, and that it is still packed in the original packaging.
- The store will send the pump to the nearest JoJo factory for an evaluation.
- At JoJo's election, (a) the pump will either be repaired (if repairable) and that repair warranted for three
 months, or the balance of the 12-month period, whichever period is longer; or (b) the pump will be exchanged
 (this only applies if the pump is non-repairable, and a replacement pump in similar visual condition will be
 provided by JoJo).
- The evaluation (once the pump is sent back to JoJo), repair/exchange and delivery to the store will take place within 14 days.

Our return/repair request form is available on our website at www.jojo.co.za.

