



INSTALLATION & OPERATING INSTRUCTIONS



SEWAGE PUMPS

SVX SERIES



India : Toll Free No. 1800 103 5555 Other Countries : +91-7292 410500

SHAKTI PUMPS (I) LTD.

Sector - 3, Pithampur - 454774, Dist.- Dhar (M.P.) - INDIA
 Fax: +91-7292-407044, E-mail : info@shaktipumps.com, sales@shaktipumps.com,
 Visit us at : www.shaktipumps.com

VC : May/2016-17/L2/0000 SAP NO. 2900000845

CONTENTS	PAGE NO.
1. Guidelines	01
2. Safety.....	01-02
3. Application.....	02
4. Delivery & Storage.....	02
5. Installation.....	02
5.1 Operating Condition.....	02
5.2 Guidelines for Pump Installation.....	03
5.3 Technical Specification.....	04
6. Outline Dimension & Performance table.....	05
7. Typical Installation.....	06
8. Warranty Certificate.....	07
9. Installation Report.....	08

INSTALLATION AND OPERATING INSTRUCTIONS

1. GUIDELINES

Please follow the instructions given in this manual before the installation & maintain your SVX pump to get reliable operation.

When you order spare parts in future, please inform the nameplate details i.e. Serial Number, Pump Type and other data.

MODEL :

Serial NO:

1PH /.....V/.....Hz /..... A , RPM , cos ϕ

Suction X Delivery Size mm , Overall Eff.%.....

Duty Head METER , Duty Discharge LPM

Head Range : - METER

Capacitor Run-Start:MFD -/.....MFD

MIN.SUBMRG. - 0.33 M, DUTY TYPE - S1

Degree of Protection - IP 68

NET WT: kg.

GROSS WT: kg.

Material:.....

Date of mfg :

Made in India

Mfg by: Shakti Pumps (I) Ltd.



Fig 1 - Name Plate with date of mfg.

2. SAFETY

The SVX pump must be only operated in observance of the following safety regulation.

- Operate the pump only under water.
- Check the electrical system and fusing before switching on.
- Protect electrical system and fusing before switching on.
- Maximum water temperature +40°C, higher temperature only with derated motors

INSTALLATION AND OPERATING INSTRUCTIONS

With generator operation always unload the generator first, i.e.

Start : First the generator, then the pump

Switch-off : First the motor, then the generator

After powering the system check :

Operating current of the motor at each phase

Mains voltage with the pump running

Level of the medium to be pumped

Switch off the motor immediately if :

Name plate current is exceeded

Voltage tolerances of more than +6% / -10%

Compared to the rated voltage on the motor are measured

Dry run is imminent

3. APPLICATION

SVX pump is applicable for the domestic civil & industrial applications where the water such as ground water, surface water and sewage water contains suspended solids upto ϕ 50 mm

4. DELIVERY & STORAGE

SVX pump are supplied from the factory in proper packing in which they should remain until they are to be installed. During unpacking and prior to installation, care must be taken when handling the pump to ensure that the pump should be placed vertically.

5. INSTALLATION

5.1. OPERATING CONDITION



- Maximum immersion Depth : 5 m
- Maximum liquid temp : +40°C
- Solid passage
 - Up to 35 mm - SVX 10-15/35
 - Up to 50 mm - SVX 10-15/50
- Minimum Immersion depth
 - 290 mm for SVX 10-15/35
 - 320 mm for SVX 10-15/50

INSTALLATION AND OPERATING INSTRUCTIONS

5.2. GUIDELINES FOR PUMP INSTALLATION.



Attention

- 1) Before starting work on the pump, make sure that electricity supply has been switched off and that it cannot be accidentally switched on.
- 2) Provide earth leakage circuit breaker in the panel board to avoid electric shock in case of earth leakage. Provide proper earth to the pump.
- 3) Ensure to connect with appropriate power supply
- 4) Ensure correct direction of rotation. Before installation, if found wrong reverse the direction of rotation.
- 5) Don't keep the power supply terminals exposed to sun and rain.
- 6) For Pumps supplied with a level switch, the difference in level between start & stop can be set by adjusting the free cable between the level switch and the pump handle. The longer the lengths of free cable the larger the difference in level between start & stop.
- 7) Ensure free movement of float cable inside the sump.
- 8) Don't be in the water when pump is running.
- 9) If cable found cut, damaged & punctured, don't run the pump. Replace the Cable.
- 10) Don't lift the pump by using cable. Use handle or rope to lift the pump.
- 11) Don't support the pump with power cable.
- 12) Use supporting ropes or chain to hang the pump.
- 13) Position the pump, the suction strainer should not be blocked or partly blocked by sludge mud or similar material. In case of permanent installation, the pit must be cleared of sludge, pebbles etc. before the pump installed.
- 14) Don't service the pump when the power supply is on.
- 15) Don't touch the pump when it is hot. Properly clean and store the pump after every usage.

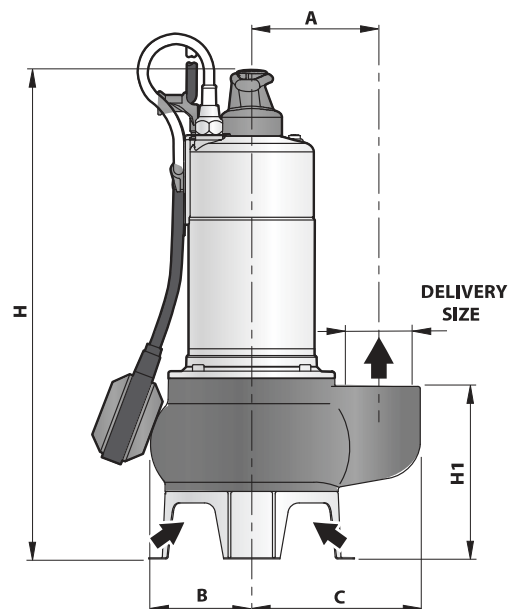
INSTALLATION AND OPERATING INSTRUCTIONS

5.3 TECHNICAL SPECIFICATION:

DESCRIPTION	VALUE
Model	1Φ- 0.75/1.1 kW 3Φ- 0.75/1.1 kW
Voltage Range	1Φ- 230 V 3Φ - 380 - 415 V
Frequency Tolerance	± 2%
Voltage Tolerance	+6/-10% of rated voltage
Speed	Appx. 2900 RPM, 50 Hz.
Start Alternatives	Direct Starting.
Switching Frequency	Max 20 Switching action per hour with a minimum off time of 90 S
Protection	IP 68
Insulation Class	F
Liquid Temperature	MAX 40°C
Immersion Depth	Max 5 m. Min 0.320 m
Sound Pressure Level	≤ 70 dB (A)
Float Switch	only for single phase version
Capacitor	25 MFD 440 VAC

INSTALLATION AND OPERATING INSTRUCTIONS

6. OUTLINE DIMENSION & PERFORMANCE TABLE



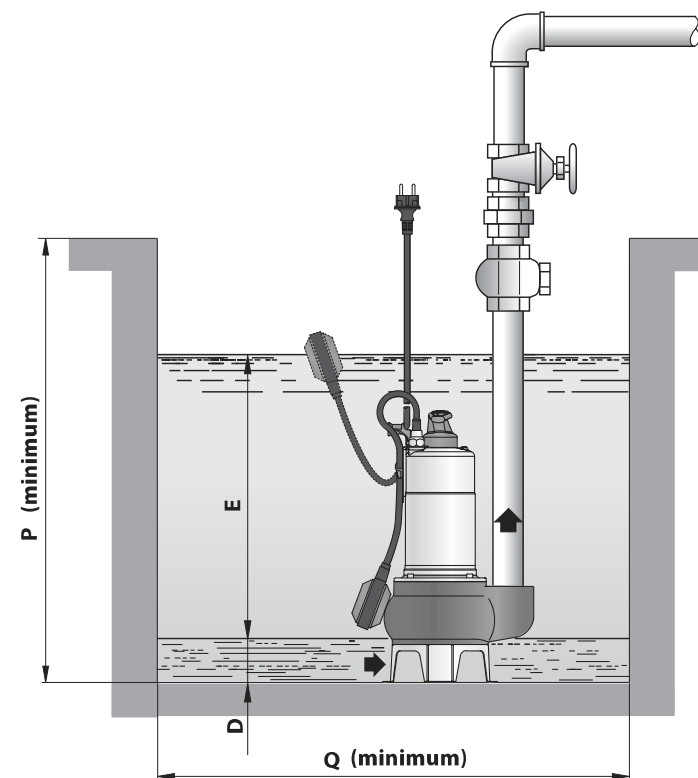
MODEL		DELIVERY SIZE (Inch)	SOLID PASSAGE	DIMENSIONS (MM)						WEIGHT (Kg)	
1Φ	3Φ			A	B	C	H	H1	1Φ	3Φ	
SVX 10/35	SVX 10/35	1 1/2	DIA 35	105	92	136	408	125	13.3	12.1	
SVX 15/35	SVX 15/35			110		143	429	130	16.3	15	
SVX 10/50	SVX 10/50	2	DIA 50	110	97	150	437	153	13.9	12.1	
SVX 15/50	SVX 15/50			115		157	458	159	17	15.6	

PERFORMANCE TABLE

MODEL		POWER		Q	m³/h	0	3	6	9	12	15	18	21	24	27	30
1Φ	3Φ	kW	HP			0	50	100	150	200	250	300	350	400	450	500
SVX 10/35	SVX 10/35	0.75	1.0	H meters	Q l/min	10	9.5	8.5	7.2	5.8	4	2				
SVX 15/35	SVX 15/35	1.1	1.5			15	14	13	11.8	10.5	9	7.5	6	4	2	
SVX 10/50	SVX 10/50	0.75	1.0			7.5	7	6.5	5.8	5	4	3.2	2.4	1.5		
SVX 15/50	SVX 15/50	1.1	1.5			11	10.5	10	9.5	9	8.3	7.5	6.8	6	5	4

INSTALLATION AND OPERATING INSTRUCTIONS

7. TYPICAL INSTALLATION



MODEL		DIMENSIONS (MM)			
1ϕ	3ϕ	D	E	P	Q
SVX 10/35	SVX 10/35	50	VARIABLE	500	500
SVX 15/35	SVX 15/35				
SVX 10/50	SVX 10/50	60			
SVX 15/50	SVX 15/50				

INSTALLATION AND OPERATING INSTRUCTIONS

WARRANTY CERTIFICATE

Dear Customer,
Congratulation, for purchasing our product.

Pump and Motor are warranted against defects in workmanship and material under normal use, service & specified duty conditions. We provide one time warranty service for twelve months from the date of purchase by the first user.

Shakti Pumps (I) Ltd warrants this product to be free from damage/ defects in material and workmanship under normal use and service for Twelve Months from the date of purchase by the first user. The user shall produce valid and original copy of invoice for availing warranty. The user shall carry defective pump set to nearest authorized service center

This warranty does not cover any loss or damage/ defect of any nature resulting from wrong product selection/ improper installation or installation by unauthorized/ untrained person/ sandy condition/ dry running and improper use of the pump sets.

The warranty also does not cover consequential losses/ damages arising due to failure of pump/ motor.

Our obligation is limited to recycling or repairing or replacing product/ parts ex-factory. Equipment for repairs should be returned free of cost to us.

The forgoing is subject to the provision that the user does not open the unit and make any change or repair without prior approval of authorized service center during the warranty period.

This warranty excludes every condition whether statutory or otherwise, whatsoever not herein expressly set out.

Customer name:Customer's phone:.....

Customer Address:

Invoice number:Invoice date:.....

Model Name:Model Serial Number:.....

Dealer's Name:Dealer's phone:.....

Dealer's Address:.....

APPROVED BY:

DEVENDRA SULE

DATE OF ISSUE

17 -05 -2016



INSTALLATION AND OPERATING INSTRUCTIONS

INSTALLATION REPORT

Customer's Name: - _____

Customer's Address: - _____

Customer's Ph. No.: _____

Dealer's Name: - _____

Dealer's Address: _____

Dealer's Ph. No. _____

Pump Model:- _____ S.L.No: _____

Project/Application: _____

Pressure In Kg:- _____ Flow in m³/hr: _____

Liquid:- _____ Temp.: _____

Voltage:- _____ Current: _____

Packing Condition:- _____

Remarks: _____

Date:- _____

Customer's Signature

BOOK-POST

To,
Shakti Pumps (I) Ltd.
Regd. Office & Works : Plot No. 401, Sector - 3,
Pithampur - 454774, Dist.- Dhar (M.P.) - INDIA
Tel: +91-7292 410500, Fax: +91-7292 410519,
E-mail : info@shaktipumps.com, sales@shaktipumps.com
Visit us at : www.shaktipumps.com

Stamp

