



LOW VOLTAGE R.O. WATER DELIVERY SYSTEM (L.V.D.S.)

The L.V.D.S. is designed to deliver a consistent flow of water from pressurized or non-pressurized sources, to a faucet or appliance (coffee maker, ice maker, refrigerator, etc). L.V.D.S. can be used with reverse osmosis water purifiers to increase the water delivery to the faucet. The pressure demand switch has a factory shut-off set at 60 psi. [4 bar]. Pump turn on is at 45 psi. [2.8 bar] (+5 psi.). An optional low pressure switch can be installed to the PCG-SRX 99P

inlet side in order to prevent the pump from dry running. The compact design with incorporated 110 to 24 VAC transformer and John Guest® push-in fittings allows easy installation.

The system is most beneficial if there is a large pressure drop (loss of flow) from the R.O. system to the faucet. The pressure drop may occur if there is a long distance from the R.O. to the faucet or if there are excessive restrictions in the plumbing system. "Pressure drop" is dependent upon two things: (1) flow rate and (2) frictional losses.

FLOW @ PRESSURE	
GPM @ psi.	LPM @ bar
.87 @ 10	3.3 @ .7
.72 @ 45	2.7 @ 2.8
.62 @ 60	2.3 @ 4.0

MODELS	LOW PRESSURE SWITCH	JOHN GUEST® PORTS
82-100-00	Included	3/8"
82-100-01	Included	1/4"
82-100-02	--	3/8"
82-100-03	--	1/4"

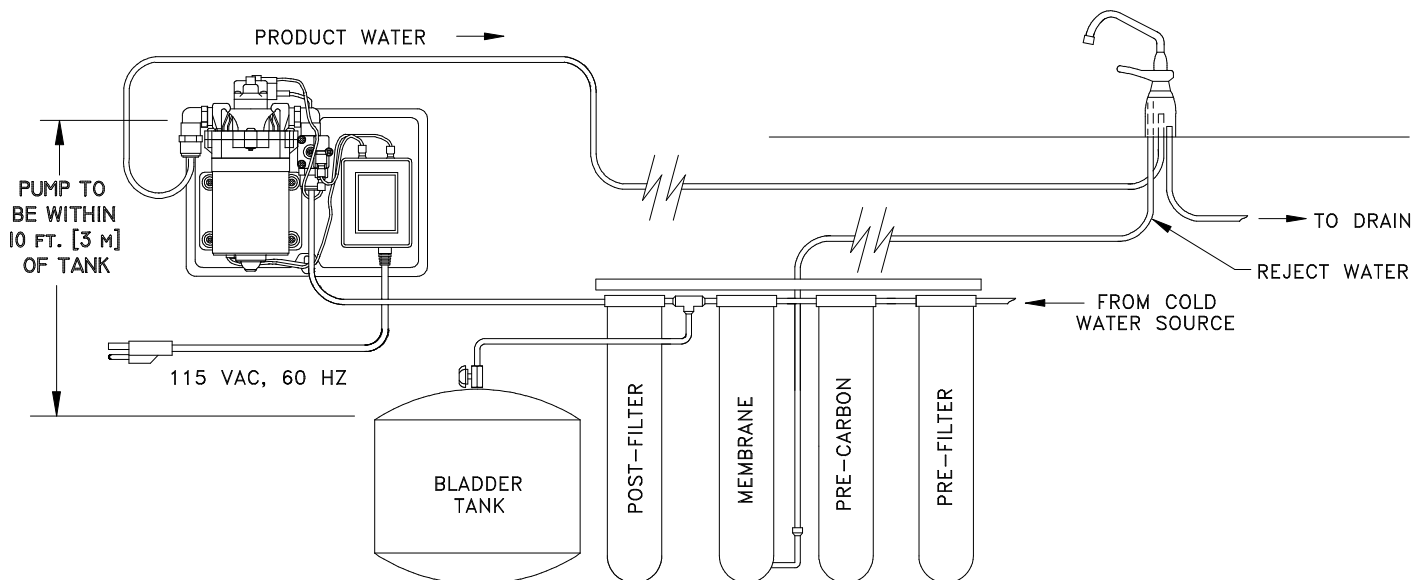
APPLICATION TIPS

- A. The pump design permits dry operation; however, extended dry operation will decrease its performance/longevity. To prevent this situation, a low pressure switch is recommended.
- B. In the event of a power failure, the drinking water system will operate on bladder tank pressure. A lower quantity of water may be supplied during this period.

CAUTION: Improper adjustment of the pressure switch may cause severe overload or premature failure. Refer to SHURflo Service Bulletin #1031 for the adjustment procedure. Failures due to improper adjustment of the pressure switch will not be covered under the limited warranty.

INSTALLATION INSTRUCTIONS

1. The system should be placed as close to the RO system as possible. Use the "keyhole" slots on the back of the base for vertical mounting. Although, the vertical position is recommended, the system may be positioned horizontally.
 2. Turn OFF the incoming water supply line, bladder tank valve, and relieve pressure by opening the water faucet or appliance.
 3. Connect the purified product water (1/4" or 3/8" O.D. flexible polyethylene tube) to the inlet of the system. Refer to the plumbing routings shown by the illustration. Tubing ends should have clean, square cuts to prevent leaks. Install the tubing into the John Guest Quick Connect fitting by pushing the tube in firmly until it stops.
1. Connect a length of tubing between the pump outlet and the faucet and/or appliance.



2. Turn OFF the faucet.
3. Plug the power cord/transformer into a GROUNDED outlet. The pump will start to operate.
4. Turn ON the incoming water supply and bladder tank valve.
5. Turn ON the faucet or appliance for a minute for purging out air.
6. Pump will operate until the pressure reaches the demand switch shut-off setting.

SPECIFICATIONS

PUMP DESIGN:	Positive Displacement Wobble Plate diaphragm pump with 3/8" female NPT ports.
MATERIAL:	Polypropylene, EPDM, Santoprene, Nylon, 316 stainless steel.
MOTOR:	Permanent Magnet, thermally protected
VOLTAGE:	24 VAC
PUMP PRESSURE SWITCH:	Shut-Off, Factory Set @ 60 psi. [4 bar] Turn on @ 45 psi. [2.8 bar] \pm 5 psi.
TRANSFORMER:	UL Listed 120 VAC/60 HZ-24 VAC with non-replaceable internal fuse
LIQUID TEMPERATURE:	34°— 170 °F [1.1°— 77 °C]
PRIME:	7.0 ft. [2.1M]vertical
LOW PRESSURE SWITCH: (if equip.)	May be SHURflo Low Profile or Mini-Micro Designs. Measures inlet pressure. Shuts off pump when pressure reaches 2.5/4.5 psi. [.17/.3 bar] Turns on at 8.5/11.5 psi. [.57/.78 bar]
NET WEIGHT:	6.3 lbs. [2.8 Kg.]
DUTY CYCLE:	Intermittent
APPROVALS:	NSF and UL Listed

LIMITED WARRANTY

SHURflo warrants the Low Voltage Delivery System to be free of defects in material and workmanship under normal use, for one (1) year of use, with proof of purchase. This limited warranty will not exceed eighteen (18) months from the date of manufacture, in any event.

The limited warranty will not apply to a Low Voltage Delivery System that was improperly installed, misapplied, damaged, altered, or incompatible with fluids or components not manufactured by SHURflo.

All SHURflo Low Voltage Delivery Systems should be returned, freight prepaid, to the authorized SHURflo distributor where originally purchased. SHURflo shall not be liable for freight damage incurred during shipping; package returns carefully.

SHURflo's obligation under this warranty policy is limited to the repair or replacement of the product. All returns will be tested per SHURflo factory criteria. Products found not defective (under the terms of this limited warranty) are subject to charges paid by the returnee for the sanitizing and packaging of "tested good" non-warranty returns.

No credit or labor allowance will be given for pumps or products returned as defective. Warranty replacements will be shipped on a freight allowed basis. SHURflo reserves the right to choose the method of transportation.

This limited warranty is in lieu of all other warranties, expressed or implied, and no other person is authorized to give any other warranty or assume obligation or liability on SHURflo's behalf. SHURflo shall not be liable for any labor, damage or other expense, nor shall SHURflo be liable for any indirect, incidental or consequential damages of any kind incurred by the use or sale of any defective product or part. This limited warranty covers systems distributed within the United States of America. Other world market areas should consult with the distributor for any deviation from this document.



SHURflo reserves the right to update specifications, prices, or make substitutions.

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