

INSTRUCTION MANUAL

SQUATPAK 400L SPRAYER

MANSQ400 REV A 14/03/25

SQ400-S10R-1



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Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

We warrant our goods to be free from defects in materials and workmanship for the warranty period of 12 months from the date the product is delivered to the consumer.

Silvan warrants its authorised Dealer, who in turn warrants the original purchaser (consumer) of each new Silvan product that it will repair or replace the product, or, pay the cost of repair or replacement, as determined by Silvan without charge for labour or any defective or malfunctioning parts in accordance with the warranty limitations below.

This Warranty is in addition to any other rights and remedies available to consumers under the law

This Warranty Covers

Only conditions resulting directly from defects in workmanship or material under normal use and service.

Warranty Exclusions

The Warranty does not cover:

- Conditions resulting from misuse, use of incompatible chemicals, exceeding machine specifications including overloading, impact damage, negligence, accidental damage or failure to perform recommended maintenance services as specified in the Owner/Operator Manual applicable to the product.
- Damage caused by continued use of a product after initial failure
- Any product which has been repaired by other than an authorised Silvan service outlet in a way which, in the sole and absolute judgment of Silvan, adversely affect its performance or reliability.
- The replacement of maintenance items such as diaphragms, batteries, V belts and ground engaging components, etc.

How To Claim Warranty

Return the goods to the place of purchase at your cost and within the warranty period along with evidence of the purchase date. If the original supplier cannot be contacted, then contact Silvan as below and we can direct you on how to proceed with your warranty claim.

How Your Claim Will Be Managed

The repair of a defective product qualifying under this warranty will be performed by any authorised Silvan service outlet within a reasonable time following the delivery of the product, at the cost of the owner, to the service outlet's place of business. The product will be repaired or replaced depending on the extent of the problem at the discretion of Silvan and the Silvan dealer.

Safety Instructions



Before attempting to operate or install the sprayer carefully read and take note of the following safety warnings.

Failure to comply with these warnings may result in serious injury or death.

- Warning!** This sprayer is designed and manufactured solely for the purpose of applying agricultural chemicals to plants. Under no circumstances may it be used for any other purposes such as flammable liquids or Chlorine cleaning products.
- Warning!** Prior to sprayer usage all users and operators must have read and fully understood the contents of this manual
- Warning!** Do not exceed the the vehicle manufacturer's specified safe load and carrying capacity.
- Warning!** Exercise extreme care when operating in hilly or uneven terrain to ensure proper stability. Refer also to the vehicle manufacturer's operating and safety instructions.
- Warning!** Refer to the chemical manufacturer's label for correct use, safe handling and Personal Protective Equipment (PPE) instructions of the chemicals before use.
- Warning!** Never allow inadequately trained personnel to attach or operate the implement.
- Warning!** Before carrying out maintenance work, wash the sprayer thoroughly to remove all toxic chemicals that may contaminate the sprayer.
- Warning!** Do not point spray gun at any part of the human body.
- Warning!** Do not pump flammable liquids or operate the pump in an explosive environment.
- Warning!** Ensure the power supply and cabling is suitable to support the pumps maximum current draw and voltage requirements.
- Warning!** Do not over extend power cables and or use cables of insufficient current capacity as this can cause voltage restrictions and excessive currents that can damage equipment.

The following "Safety" decal should be fitted to the machine at all times in the location shown in the diagram. If the decal is missing or unreadable it should be replaced by ordering a new decal from your Silvan dealer by the part number DEC48



Specifications



GENERAL

The Silvan Squatpak is a portable sprayer designed for the application of chemicals to agricultural crops, plants and weeds. The tank, pump and fittings are corrosion resistant and are suitable for applying weedicides, herbicides, insecticides, fungicides, organic and green formulations.

A variety of models are available configured with different pumps, spray guns and hoses, all suited for spot spraying but may be used in conjunction with a boom for boom spraying.

TANK

400 litre moulded tank with internal baffle and calibrated litre graduations. Material is U.V. stabilized and impact resistant polyethylene with a screw on lid with anti-spill breather.

PUMPS

- **DDP-555** Aquatec Medium Capacity, 12-volt DC electric, 14 litres/minute open flow, Max 45psi on demand electric pressure switch, On/Off switch.



HOSEREELS

- **30m Manual** – Locking device to prevent unrolling. 30m of 10mm I.D. hose



SPRAY GUNS

- **JetPro Gun** is ideal spot spraying able to deliver a straight stream or conical spray pattern by adjusting the trigger.



CONTROLS

- **DDP-555 12V Pump Controls** . The pump is fitted with an automatic electric pressure sensing switch which automatically starts the pump when the pressure falls below a pre-set pressure and stops the pump when the pressure reaches a maximum pre-set pressure.

A control valve manifold is also connected the pump with Pressure Gauge, 1 Spare outlet with tap for a boom if required a Pressure adjustment tap.



Specifications



FILTRATION

In line suction filter and basket strainer beneath the tank lid to eliminate coarse debris.

DIMENSIONS

Product Code	Length	Width	Height	Dry Weight
SQ400-S10R-1	1060mm	940mm	1010mm	43kg

To calculate the weight of the sprayer including water, add 1kg to the dry weight for every litre of water. E.g.
The laden weight of the TP250-S10R-1 sprayer with 250L of water is $38 + 250 = 283\text{kg}$

Installation



FITTING INSTRUCTIONS

Position the sprayer in a way that minimises contamination to the operator. With the pump away from operator the risk of contamination due to hose failure can be minimised. It is recommended that the sprayer be securely attached to the vehicle or trailer. Refer to manufacturer's instructions for appropriate load limits and fitting positions.

Note: 1 litre of water = 1 kg.

Never fill spray tank to a capacity beyond the specified overall weight limits set by your vehicle manufacturer.

The sprayer should be mounted centrally and as near to the vehicle centre of gravity, as possible. It should not protrude so it will not cause an obstruction.

CONNECTING TO 12 VOLT SUPPLY

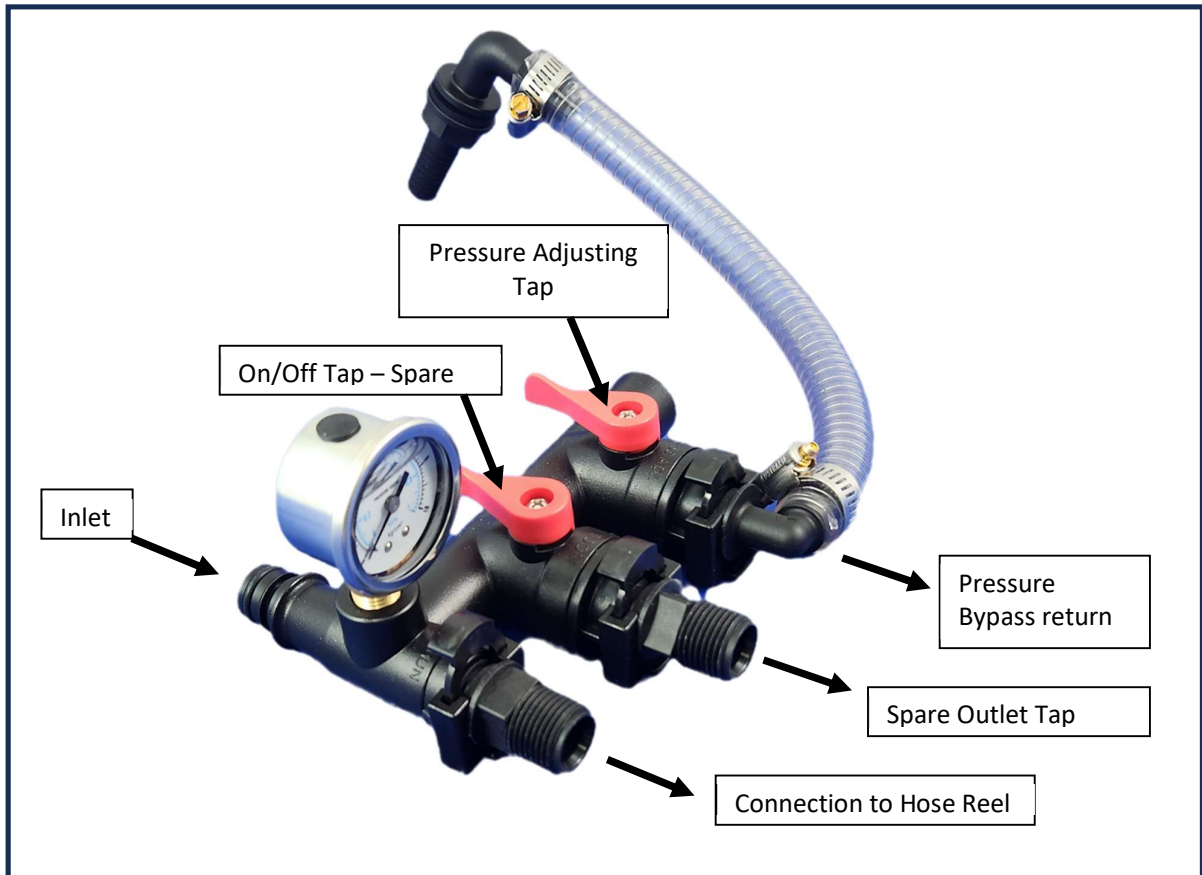
- **Important Note!** Ensure that distance from the power supply to pump is minimised.
 - **Important Note!** If extending power cables ensure a cable of equal or preferably greater current capacity is used as over extended wires may overheat, blow fuses or damage the pump
 - **Important Note!** Consult your vehicle instruction manual for correct electrical connection.
 - **DDP-555 12V Pump** A 3 metre wiring loom with alligator clips is provided with the sprayer to allow the sprayer to be connected to the 12 volt DC source available. The red alligator clip is positive and the black is negative. If you extend the wire use wire of the same gauge or larger
- An on/off switch is fitted beside the pump to allow the sprayer to be switched off from the 12 volt DC source to prevent accidental drain of power. The switch also allows the pump to be shut down when the tank is empty. An additional inline switch is provided with the sprayer that can be fitted by the user if they are using the sprayer with a spray boom.



Operation



DDP-555 12V PUMP OPERATING INSTRUCTIONS



- Turn the Pressure adjustment tap to clockwise (this allows flow from the pump to travel through the bypass hose to the tank)
- Turn on the pump (Liquid should start recirculating back into the tank)
- Pull the trigger in on your spray gun or turn the spare tap clockwise if you are operating a boom.
- Slowly turn pressure adjustment tap anticlockwise (this reduces the flow from bypassing and increases pressure to the spray gun or boom).
- Increase the pressure until it reaches your selected spray pressure, if the pump begins to pulsate/cycle on and off reduce the pressure to eliminate pulsation.
- **Warning If pulsation occurs you will risk damaging the pump. Pulsation occurs when there is a restriction to pump flow (from the regulator or nozzles) which increases the pressure to the cut-out pressure of the pumps on-demand pressure sensing switch.**
- When you turn off the spray gun or boom, the system pressure will increase and not return to your selected pressure until you begin spraying again.
- **Important operational information:** When using this pressure regulator to manage pressure from a 12V Diaphragm pump with on-demand function from operating as liquid bypasses into the tank means the pump may run constantly until switched off.

Operation



FILLING THE TANK AND ADDING CHEMICAL

Warning: Before using the sprayer for the first time or adding chemical check the operation and function of the sprayer with clean water

- Check that the battery power supply is charged and all fittings, hoses and gun connections are tight.
- Check suction filter is clean



- Partly fill the sprayer before adding chemical. Always use clean water to prevent blockages and ensure chemical function is not inhibited.
- Run pump and ensure it primes correctly, holding the spray lance trigger on until it sprays steadily.
- Check all pipes, hoses, hose clamps and connections for leaks or damage.
- Be sure to wear safety equipment as recommended by the chemical manufacturer before adding chemical to the sprayer.

Once satisfied that all hoses and connections are working and there are no leaks or damage.

- Add the chemical according to the directions on the chemical container following all safety and protective equipment recommendations.
- Do not use wet powders or chemicals that must remain suspended in solution and require agitation. Only use chemicals or dyes that fully dissolve.
- Do not use a sprayer that has been used to spray herbicides for insecticides or nutrients unless the sprayer has been thoroughly cleaned including neutralizing the herbicide according to the manufactured directions if required.

Maintenance



Dispose of unused chemical and water used for rinsing in a manner that will not endanger people, animals or the environment.

Failure to comply with these warnings may result in serious injury or death.

To avoid chemical contamination, wear appropriate protective equipment including gloves whenever maintenance is carried out; turn off the pump and depress the trigger on the spray lance to dissipate any pressure. After spraying is completed, drain unused chemicals from the tank. Rinse the tank with clean water then operate the sprayer with clean water in the tank to clean out the pump, hose and spray lance. Do not leave chemicals in the tank as they may crystallize or form solids and block in pump, spray lines, nozzles or filters. A cleaning agent may be required to clean away residues of spray dyes or other solutions that leave deposits in the pump and lines.

The filter should be checked and cleaned if necessary, each time the tank is filled.

If heavy frosts are experienced, run the pump to make sure pump and spray lines are dry. This will prevent water freezing in the pump or spray lines and damaging the sprayer.