

Instruction Manual

MANPP-1 REV D 4/12/06

Pak Pump Series

**Models - 381-38
381-2000
381-125**



381-38



381-2000



381-125

Silvan Australia Pty Ltd

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New Product Warranty

the Silvan Warranty

This warranty is the only warranty applicable to Silvan new products ('Products') and, to the maximum extent permitted by law, is expressly in lieu of any other conditions or warranties expressed or implied in relation to the Products.

Subject only to legislative obligations to the contrary, Silvan shall not be liable for incidental or consequential damage resulting from ownership or use of a Product.

Silvan does not authorize any person to create for it any other obligation or liability in connection with these products.

Silvan warrants its authorised Dealer, who in turn warrants the original purchaser (owner) 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 and adjustment schedule below.

The warranty period begins on the date the product is delivered to the first retail purchaser for a period of 12 months

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.
- Any product which has been repaired by other than an authorised Silvan service outlet in a way which, in the sole and absolute judgement of Silvan, adversely affect its performance or reliability.
- The replacement of maintenance items such as diaphragms, batteries, V belts and ground engaging components, etc.
- Loss of time, inconvenience, loss of use of the product liability to third parties or any other consequential damages.
- Incidental costs associated with a warranty repair including any travel costs, out of hour's labour charges, cleaning costs, transportation costs, freight costs or any communication costs.

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, using new parts supplied by Silvan. Silvan, in its absolute discretion, may choose to pay the cost of replacement or repair of the product.

The owner is responsible for the performance of regular maintenance services as specified in the Owner/Operator Manual applicable to the product. Failure to carry out regular maintenance may invalidate warranty

About Your Warranty

Silvan Australia Pty. Ltd. builds equipment to a high level of specification using components from quality suppliers. The following information is provided to assist you with any repairs required within the warranty period.

- All warranty repairs on Silvan products are carried out by Silvan dealers. If any warranty repairs are required on Silvan products, it is recommended that the product be returned to the place of purchase.
- It is good practice to keep a record of equipment maintenance both during and after the warranty period.

The following information on warranty coverage explains the extent and limitations of your Warranty coverage on Silvan Products.

Warnings

Warnings !



You need to read carefully and take note of the following warnings before attempting to operate or install this pump. Failure to comply with these warnings may result in serious injury or death.

Warning ! This pump 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.

Warning ! Prior to pump usage all users and operators must have read and fully understand the contents of this operation manual.

Warning ! Refer to the chemical manufacturer's label for correct use and safe handling instructions of chemicals before use.

Warning ! Before carrying out maintenance work, wash the pump thoroughly to remove all toxic chemicals that may contaminate the pump.

Warning ! Do not pump flammable liquids or operate the pump in an explosive environment.

Warning ! Do not operate the pump at pressures which cause the pump to exceed the ampere rating.

Specifications

All of the pump models are powered by a **12 volt DC** supply, they are fitted with a **pressure switch** and the valve material is **Viton**.

The differences between the **381-38**, **381-2000** and **381-125** are shown in the table below.

Model	Open Flow	Pressure KPA/PSI	Diaphragm Material	Duty Rating	Port Size Size/Type
381-38	2.4 l/min	240 / 35	TPU	Intermittent	8mm tail
381-2000	5.3 l/min	413 / 60	SANTO	Continuous	3/8" BSP Female
381-125	12.5 l/min	240 / 35	TPU	Intermittent	12.5mm 'clip in'

Mounting

The PakPump is to be mounted through the rubber feet on the base. **Note:** Do not compress the rubber feet as this will reduce vibration isolation.

The pump may be mounted in any position, however if mounting the pump vertically, the head of the pump should be in the downward position to protect the motor in the unlikely event of a leak in the head.

Mount the pump in an area that is dry and provides adequate ventilation, away from flammable material.

Plumbing

The 381-38 model Pak Pump comes with 8mm hose tails fitted to the inlet and outlet of the pump. Use 8mm (5/16") hose with hose clamps, ensure the hose is of adequate length and is free from kinking so as to not place added stress on the fittings, ports and pump.

The 381-2000 model Pak Pump comes with 3/8" BSP female ports. When 3/8" BSP fittings are fitted to the pump head, apply a suitable thread sealant and torque no more than 5Nm. Ensure the hose that is fitted is of adequate length and is free from kinking so as to not place added stress on the fittings, ports and pump.

The 381-125 model Pak Pump comes with a clip in suction filter for the inlet port and a choice of three fittings for the outlet port. There is a 'clip in' elbow to 12.5 hose tail, a straight 'clip in' 12.5mm tail and a 'clip in' 1/2" NPT threaded adaptor. Use 1/2" hose with hose clamps and ensure the hose is of adequate length and is free from kinking so as to not place added stress on the fittings, ports and pump.



Note: if you are having difficulty pushing the hose over the tail, immerse the end of the hose in hot water, this will soften the hose enough to be pushed over the hose barb.

Installation of a 50 mesh foot filter is recommended to prevent foreign material entering the pump.

Note: If the pump experiences rapid cycling (i.e. turns on and off repeatedly), the spray nozzle(s) may need to be adjusted or an accumulator may need to be fitted.

Electrical

The pump requires 12 Volt DC to operate. Connect the red wire to positive and the black wire to negative. To ensure protection of the pump, a 10 Amp fuse should be installed to the positive line of the wiring loom.