

Priming and Operation

1. Fill the pump body with water at the priming hole adjacent to the delivery outlet.
2. Replace priming plug and switch on.
3. Open gate valve in pump outlet to allow air from suction line to be expelled. With long suction lines it may be necessary to reprime the pump more than once.
4. Once prime has been established a strong flow of water out of the pump will be evident. Adjust valve to required flow rate.

Spear Point Installations

The pumping capacity of your Dynaprime may need to be adjusted to match the water supply available from your bore. This should be done by closing the gate valve in the pump outlet until the flow to the sprinklers is equal to the water available to the spear point.

Be sure to choose the correct spear point to suit your water supply.



Note: If this pump is allowed to continually pump water containing sand or other abrasive material, the effective life of the pump will be shortened.

Trouble Shooting Check List

- a) Motor runs when switched on but does not pump or pumps poorly
 1. Suction line and pump body not filled with water.
 2. Air leaks in suction lines or suction pipe not under water.
 3. Air trapped in suction lines (due to uneven rise in piping; eliminate humps and hollows).
 4. No water at source or water level too low.
 5. Valve on suction lines closed.
 6. Check valve installed in wrong direction.
 7. Suction lift too high.
 8. Blocked impeller.
- b) Motor doesn't start when switched on
 1. Power not connected.
 2. Supply voltage too low.
 3. "Over temperature" cut-out tripped.*
 4. Motor not free to turn eg a jammed impeller.
 5. Internal motor fault.



Note: For protection, the Davey pump motor is fitted with an automatic "over temperature" cut-out. Constant tripping of this overload device indicates a problem eg low voltage at pump, motor overloaded.

	NOTE: For protection, the Davey pump motor is fitted with an automatic reset thermal overload, constant tripping of this overload indicates a problem e.g. low voltage at pump, excessive temperature (above 50°C) in pump enclosure.
	WARNING: Automatic reset thermal overloads will allow the pump to restart without warning. Always disconnect the pump motor from the electrical supply before maintenance or repairs.
	WARNING: When servicing or attending pump, always ensure power is switched off and lead unplugged. Electrical connections should be serviced only by qualified persons.
	Care should also be taken when servicing or disassembling pump to avoid possible injury from hot pressurised water. Unplug pump, relieve pressure by opening a tap on the discharge side of the pump and allow any hot water in the pump to cool before attempting to dismantle.
	IMPORTANT: DO NOT USE petroleum based fluids or solvents (e.g. Oils, Kerosene, Turpentine, Thinners, etc) on the plastic pump components or seal components.
	WARNING: Do not use hydrocarbon based or hydrocarbon propelled sprays around the electrical components of this pump.
	In accordance with AS 3350.2.41 we are obliged to inform you that this pump is not to be used by children or infirm persons and must not be used as a toy by children.

After Sales Service

For professional after sales service or repair contact your Davey Dealer.
For assistance in locating your nearest dealer contact the Davey Customer Service Centre.

DAVEY WATER PRODUCTS GUARANTEE FOR AUSTRALIA & NEW ZEALAND
This Davey product is guaranteed to be free of material or manufacturing defects at the time of original purchase. Should any part fail as a result of such defects within two years of original purchase, the product will be repaired free of charge.

TERMS AND CONDITIONS
This guarantee applies to all states and territories of Australia and New Zealand only and is subject to the provisions of the Trade Practices Act (Aust.), the Goods and Consumer Protection Legislation of the various Australian states and the Consumers Guarantee Act 1993 (NZ) as applicable.
The guarantee period commences on the date of original purchase of the equipment. Evidence of this date of original purchase must be provided when claiming repairs under guarantee. It is recommended you retain all receipts in a safe place.
This guarantee covers parts and workshop labour only. Goods should be forwarded, with proof of date of original purchase, to an Authorised Davey Service Centre (freight paid).
This guarantee is subject to due compliance by the original purchaser with all directions and conditions set out in the Installation and Operating Instructions. Failure to comply with these instructions, damage or breakdown caused by fair wear and tear, negligence, misuse, incorrect installation, chemical or additives in the water, inadequate protection against freezing, rain or other adverse weather conditions, corrosive or abrasive water, lightning or high voltage spikes or through unauthorised persons attempting repairs are not covered under guarantee. The product must only be connected to the voltage shown on the nameplate.
Without limiting the original purchaser's entitlements under the Trade Practices Act (Aust.), the Goods & Consumer Protection Legislation of the various Australian states, or the Consumers Guarantee Act 1993 (NZ), Davey shall not be liable for any loss of profits or any consequential, indirect or special loss, damage or injury of any kind whatsoever arising directly or indirectly from the product or any defect.
Where the Trade Practices Act (Aust.), the Goods and Consumer Protection Legislation of the various Australian states and the Consumers Guarantee Act 1993 (NZ) does not apply, Davey shall not be liable for any loss of profits or any consequential, indirect or special loss, damage or injury of any kind whatsoever suffered by the purchaser arising directly or indirectly from the product or any defect and the purchaser shall indemnify Davey against any claim by any other person whatsoever in respect of any such loss, damage or injury.
Nothing in this guarantee is intended to have the effect of contracting out of the provisions of the Trade Practices Act (Aust.), the Goods and Consumer Protection Legislation of the various Australian states and Consumers Guarantee Act 1993 (NZ) except to the extent permitted by the various Acts and this guarantee is to be modified to the extent necessary to give effect to that intention.
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DEPEND ON
DAVEY

WATER PRODUCTS

Installation and Operating Instructions for Dynaprime X201 Electric Pumps



NOTE: Prior to installation remove the red transport plugs & associated seals from the suction and/or discharge ports.

WARNING: Failure to follow these instructions and comply with all applicable codes may cause serious bodily injury and/or property damage.

Please pass these instructions on to the operator of this equipment.

Prior to using this pump you must ensure that:

- The pump is installed in a safe and dry environment
- The pump enclosure has adequate drainage in the event of leakage
- Any transport plugs are removed
- The pipe-work is correctly sealed and supported
- The pump is primed correctly
- The power supply is correctly connected
- All steps have been taken for safe operation

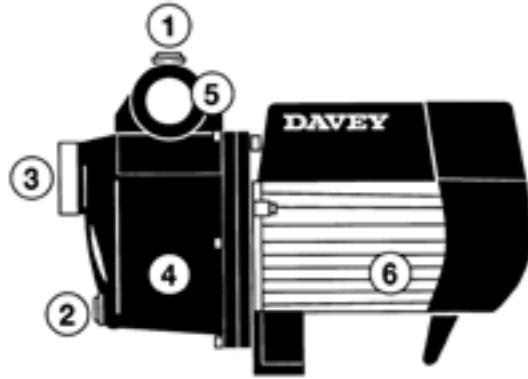
Appropriate details for all of these items are contained in the following Installation and Operating Instructions. Read these in their entirety before switching on this pump. If you are uncertain as to any of these Installation and Operating Instructions please contact your Davey dealer or the appropriate Davey office as listed on the back of this document.

Congratulations on your purchase of a high quality, Australian built Davey pump. All components have been designed and manufactured to give trouble free, reliable operation.

Before installing your new pump, please read all instructions carefully as failures caused by incorrect installation or operation are not covered by the guarantee. Your Dynaprime X201 is designed to handle water containing soft solids to 10mm. It should not be used for any other purpose without specific referral to Davey. The use of the pump to handle flammable, corrosive and other materials of a hazardous nature is specifically excluded.

DYNAPRIME X201

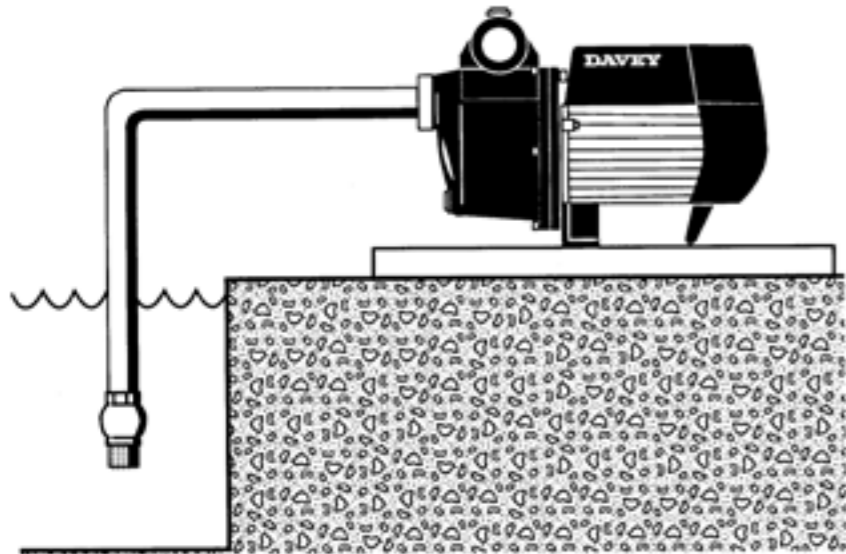
1. Priming Plug
2. Drain Plug
3. Suction Inlet (1 1/4" BSPF)
4. Pump Body
5. Delivery Outlet (1 1/4" BSPF)
6. Motor



Do not use pipe thread sealing compound on any part of this pump. ONLY use teflon thread sealing tape.

Choosing a Site

Choose a site with a firm base and as close to the water source as possible with correct power supply. Make sure your Dynaprime pump is always connected to an adequate, reliable source of water.



Housing your Pump

To protect your pump from the weather, make sure the cover provided is both water proof, frost free and has adequate ventilation.

The pump should be horizontally mounted on a firm dry base allowing for drainage, to avoid damage to flooring



WARNING: Some insects, such as small ants, find electrical devices attractive for various reasons. If your pump enclosure is susceptible to insect infestation you should implement a suitable pest control plan.



Power Connections and Wiring must be carried out by an authorised electrician.

Connect lead to power supply designated on pump label, do not use long extension leads as they cause substantial voltage drop, poor pump performance and may cause motor overload.

Type of Piping to be used

It is recommended that polythene piping be used for the pump suction and the delivery lines immediately adjacent to the pump. PVC piping may be used as an alternative to polythene pipe, however, unions should be used with PVC pipe so that the pump may be removed without cutting the piping.

Connection to your Water source

As your Davey Dynaprime pump has an inbuilt check valve, no external check valve or foot valve is required. (On some suction lifts it may be advisable to fit a foot valve to assist with priming. With a foot valve installed at the bottom of the suction pipe, it may be beneficial to incorporate a "priming tee" in the suction pipework adjacent to the pump to aid in initial priming of the suction line).

Installation of a suction strainer is recommended to prevent large items of foreign matter entering the pump. The suction strainer should have sufficient area so as to not restrict the water flow to the pump. Ensure that the strainer on the end of the suction pipe does not rest in debris or mud at the bottom of your water source as (B) opposite.

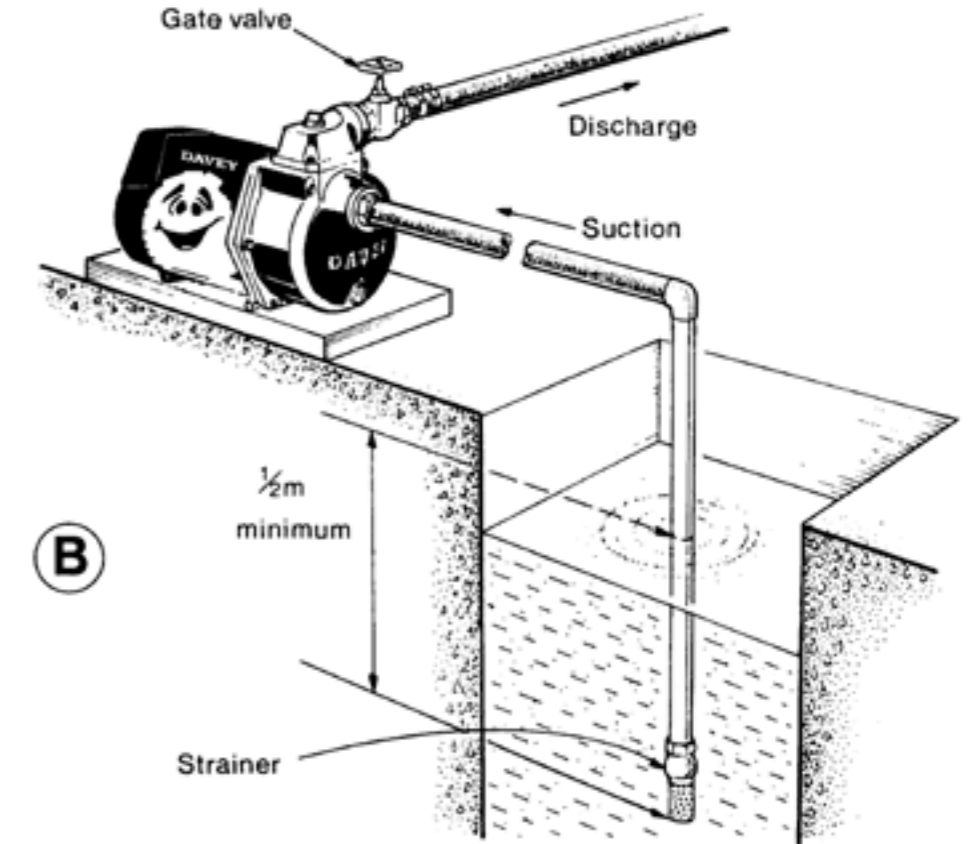
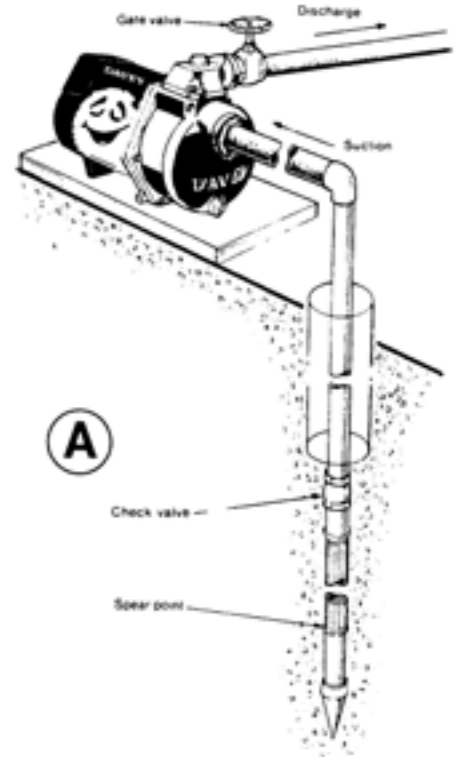
Suction Piping

Suction piping should be laid so there is a constant rise from the water source to the pump. Any high spots will cause pockets of air to form which may reduce the efficiency of the system. For best performance use pipe of at least the same diameter as the pump's inlet.

Spear Point Installations

When installing a Dynaprime on a spear or well point as (A) right, a check valve immediately above the spear will greatly assist pump operation (when re-priming).

The Pump may require "topping-up" with water at initial priming after the trapped air in the suction pipe between pump and water level is pumped out.



Note: Suction leaks are the largest cause of poor pump performance and are difficult to detect. Ensure all connections are completely sealed using thread tape only.

Connection of Outlet Pipework to Pump

To control the flow of water from the pump it is recommended that a gate valve be installed on the pump outlet - this is particularly advisable when there is a possibility of the pump delivering water at a faster rate than may be available at the source (e.g. spear point, spring, well etc.). Use thread tape at all times and do not over-tighten fittings. For best performance use pipe of at least the same diameter as the pump outlet.