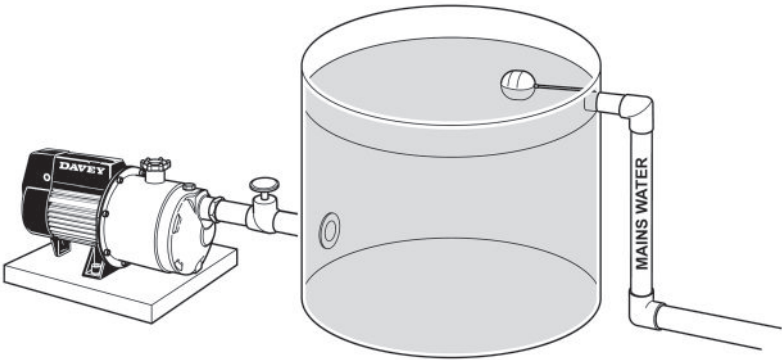


Connection of Mains Scheme or Town Water Supply to either Suction or Discharge of Pumps

Most Water Supply Authorities have strict regulations regarding direct connection of pumps to mains water supplies. In most cases an isolating tank is required between mains supply and pump. Davey also recommend this method. Directly applied mains pressure can exceed pump operating pressure and damage pump.

Davey Water Products Pty Ltd can not accept responsibility for loss or damage resulting from incorrect or unauthorised installations.

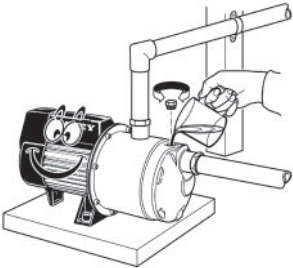


Priming and Operation

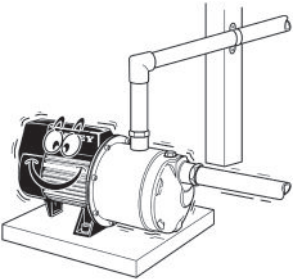
1. Ensure outlet nearest to pump is open.



2. Fill pump body and suction line through priming plug hole located above suction inlet and replace plug.



3. Switch on.



4. Prime should establish almost immediately with a strong flow of water, however, in some installations it may be necessary to repeat the above operation to remove all air from the system.



WARNING:
DO NOT RUN DRY.
DO NOT RUN WITH LOSS OF PRIME.
DO NOT PUMP WATER CONTAINING ABRASIVE MATERIALS.

Trouble Shooting Check List
MOTOR OPERATING BUT NOT PUMPING

- 1. Suction line and pump body not filled with water.
- 2. Leaking foot valve.
- 3. Air leaks in suction lines or suction pipe not under water.
- 4. Air trapped in suction lines (also possible with flooded suction) due to uneven rise in piping (eliminate humps and hollows).
- 5. No water at source or water level too low.
- 6. Valve on suction or delivery lines closed.

MOTOR NOT RUNNING

- 1. Power not connected.
- 2. Supply voltage too low.
- 3. Overload tripped.
- 4. Motor not free to turn e.g. a blocked impeller.
- 5. Internal motor fault.

MOTOR RUNS FOR SOME TIME THEN STOPS - RESTARTS
AUTOMATICALLY AFTER SHORT TIME

- Overload tripping in motor
- low voltage at motor terminals
 - motor in direct sunshine or in “hot box”
 - motor not free to turn (eg: blocked)

***NOTE “MOTOR PROTECTION DEVICE” :**
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.

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 on 1300 2 DAVEY.

Warranty

Davey Water Products Pty Ltd (Davey) warrants all products sold will be (under normal use and service) free of defects in material and workmanship for a minimum period of one (1) year from the date of original purchase by the customer, as marked on the invoice, for specific warranty periods for all Davey products visit daveywater.com.

This warranty does not cover normal wear and tear or apply to a product that has:

- been subject to misuse, neglect, negligence, damage or accident
- not been installed in accordance with the Installation Instructions or by suitably qualified personnel
- been modified or altered from original specifications or in any way not approved by Davey
- been used for purposes other than intended by Davey
- been subject to abnormal conditions such as incorrect voltage supply, lightning or high voltage spikes, or damages from electrolytic action, cavitation, sand, corrosive, saline or abrasive liquids.

The Davey warranty does not cover replacement of any product consumables or defects in products and components that have been supplied to Davey by third parties (however Davey will provide reasonable assistance to obtain the benefit of any third-party warranty).

- To make a warranty claim:
- If the product is suspected of being defective, stop using it and contact the original place of purchase. Alternatively, phone Davey Customer Service or send a letter to Davey as per the contact details below
 - Provide evidence or proof of date of original purchase
 - If requested, return the product and/or provide further information with respect to the claim. Returning the product to the place of purchase is at your cost and is your responsibility.
 - The warranty claim will be assessed by Davey on the basis of their product knowledge and reasonable judgement and will be accepted if:
 - o a relevant defect is found
 - o the defect occurred during the relevant warranty period; and
 - o none of the excluded conditions listed above apply
 - The customer will be notified of the warranty decision in writing and if found to be invalid the customer must organise collection of the product at their expense or authorise its disposal.

If the claim is found to be valid Davey will, at its option, repair or replace the product free of charge.

The Davey warranty is in addition to rights provided by local consumer law. You are entitled to a replacement or refund for a major failure and 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.

For any third party connected products the consumer is responsible for ensuring a stable internet connection. In the event of a network failure the consumer will be responsible to address the issue with the third party. Davey does not warrant the accuracy of information provided by third parties. The User acknowledges that the User is responsible for the accuracy of the information provided by the User. The User acknowledges that the User is responsible for the accuracy of the information provided by the User. The User acknowledges that the User is responsible for the accuracy of the information provided by the User.

Products presented for repair may be replaced by refurbished products of the same type rather than being repaired. Refurbished parts may be used to repair the products. The repair of your products may result in the loss of any user-generated data. Please ensure that you have made a copy of any data saved on your products.

To the fullest extent permitted by law or statute, 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 Davey products. This limitation does not apply to any liability of Davey for failure to comply with a consumer guarantee applicable to your Davey product under local laws and does not affect any rights or remedies that may be available to you under local laws.

For a complete list of Davey Dealers visit our website (daveywater.com) or call:

Davey Water Products Pty Ltd
Member of the GUD group
ABN 18 066 327 517

AUSTRALIA
Customer Service Centre
6 Lakeview Drive,
Scoresby, Australia 3179
Ph: 1300 232 839
Fax: 1300 369 119
Email: sales@davey.com.au
Website: daveywater.com

NEW ZEALAND
Customer Service Centre
7 Rockridge Avenue,
Penrose, Auckland 1061
Ph: 0800 654 333
Fax: 0800 654 334
Email: sales@dwpc.co.nz
Website: daveywater.com

© Davey is a registered trademark of Davey Water Products Pty Ltd. © Davey Water Products Pty Ltd 2019.

P/N 402105-2

* Installation and operating instructions are included with the product when purchased new. They may also be found on our website.

DAVEY

Installation and
Operating Instructions
for Dynaflo
HS Series Electric Pumps

MODELS: HS50-06, HS60-08



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

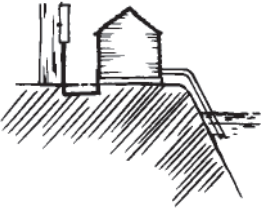
Appropriate details for all of these items are contained in the following Installation and Operating Instructions. Read these in their entirety before switching on this pump. If you are uncertain as to any of these Installation and Operating Instructions please contact your Davey dealer or the appropriate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

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 Dynaflo HS Electric Pump is designed to handle clean water. The pump should not be used for any other purpose without specific referral to Davey. The use of the pump to pump flammable, corrosive and other materials of a hazardous nature is specifically excluded.

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

Choosing a Site

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



Housing your Davey Pump

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

The pump should be mounted on a firm base allowing for drainage, to avoid damage to flooring etc., that over time may occur from leaking pipe joints or pump seals.

Do not mount the pump vertically.

Power Connection

 **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.**

 **The electrical connections and checks must be made by a qualified electrician and comply with applicable local standards.**

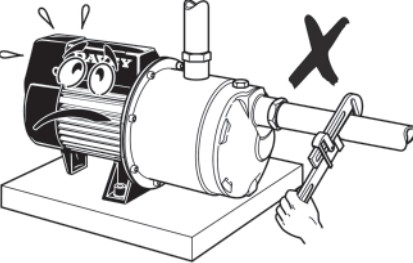
In accordance with AS/NZS 60335.2.41 we are obliged to inform you that this pump is not to be used by children or infirm persons and must not be used as a toy by children.

 **DO NOT USE THREAD SEALING COMPOUNDS, HEMP OR PIPE DOPE!**

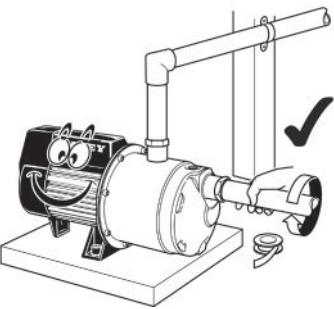
IP55 Compliant Connection

For some installations, such as wet areas in dairies, the pump is required to be IPX5 compliant. The Dynaflo HS pump is IP55 compliant.

Pipe Connections

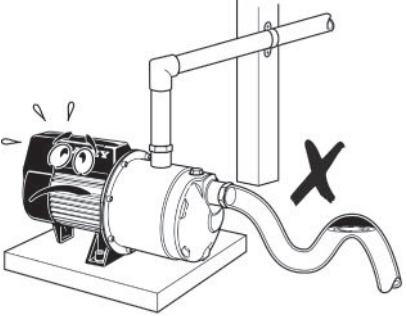


For best performance use P.V.C. or polythene pipe at least the same diameter as the pump’s inlet. Larger diameter pipe may be used to minimise resistance to flow when pumping longer distances.



Use unions at pipe connections to enable easy removal and servicing. Use sufficient tape to ensure airtight seal and hand tighten only, do not screw connections all the way into suction port. To prevent strain on pump thread always support heavy inlet and outlet pipes. Lay suction pipe at a constant gradient to avoid air pockets which may reduce pump efficiency.

 **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. DO NOT USE SEALING COMPOUNDS OR PIPE DOPE.

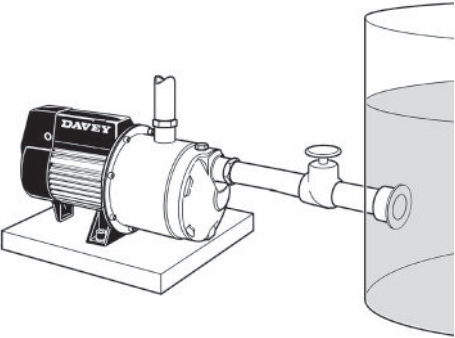


Connection to your Water Source

ABOVE GROUND WATER SOURCES

Installations with flooded suction require a gate valve so water supply can be turned off for pump removal and servicing.

Leave the in-built one-way check valve installed to avoid water draining back past the pump while not in operation and causing possible pump damage.

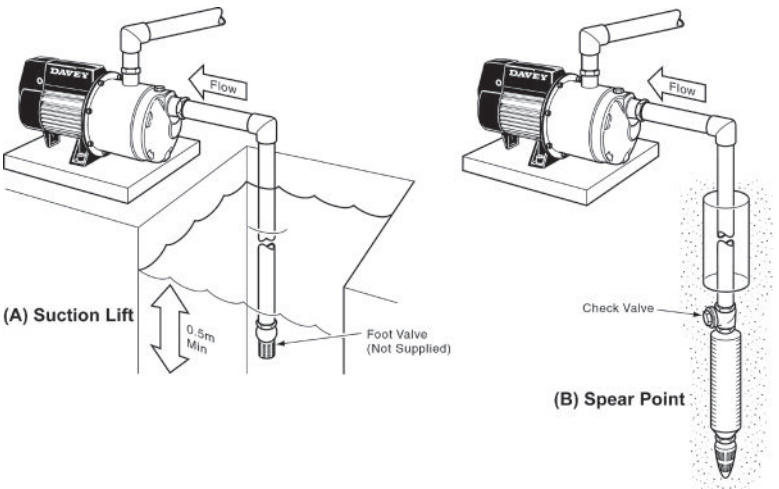


Connection to your Water Source

BELOW GROUND WATER SOURCES

 **NOTE:** HS models are fitted with an in-built suction check valve which should be removed on all suction lift applications and a foot valve or check valve installed in the suction pipework as appropriate.

Whenever the installation position of the pump is higher than the lowest water level, a foot valve fitted to the end of the suction pipe as illustrated in (A) below is required. Ensure that the foot valve is at least 1/2 metre below minimum water level.



SPEAR POINT INSTALLATIONS

When a Dynaflo HS is installed on a spear or well point, the in-built check valve **MUST** be removed and a check valve fitted immediately on top of the spear point itself, as shown in (B) above.

 **NOTE:** DO NOT install the check valve at the pump or at the top of the well. DO NOT run the pump without water.

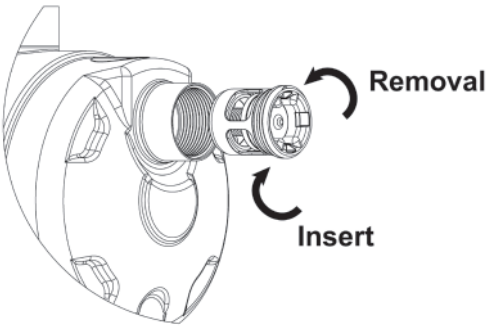
 **NOTE:** Be certain to select the spear point to suit the well conditions and regulate the flow rate from the pump accordingly.

Spear Size	Mesh	Approx. Max. Capacity of Spear Point
1 1/4" (32mm)	60	15 - 23 l/min or 200 - 300 gal/hr
1 1/2" (38mm)	60	23 - 38 l/min or 300 - 500 gal/hr
2" (50mm)	60	38 - 75 l/min or 500 - 1000 gal/hr

Removal of in-built check valve (where fitted)

If your installation requires the removal of the in-built check valve or the in-built check valve requires removal for servicing, this can be achieved without difficulty.

The in-built check valve is a cassette design, which is screwed in through the suction inlet.



Removal of the check valve cassette is achieved by inserting any suitable tool (eg: a pair of pliers or the handle from an adjusting spanner) into the inlet. The check valve cassette has various ribs and recesses to allow a variety of nonspecific tools to be used in the removal or insertion process.