**DEEP WELL PRESSURE PUMPS**

Model Numbers: 95D, 125D & 165D

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**DEEP WELL JET PUMPS**

**PRODUCT DESCRIPTION**

Rugged, reliable single stage centrifugal pumps with deep well injectors, driven by Davey's TEFC motor. Pump fitted with pressure switch for easy conversion to automatic operation. Automatic demand response valve fitted as standard to protect against loss of prime from over pumping.

**APPLICATIONS**

Used in conjunction with Deep Well injector kits these pumps are ideal for supplying high pressure water from bores to 42m depth for:

- Water supply
- Tank filling
- Stock watering
- Sprinkler supply

Pumps can also be used in applications where pump needs to be horizontally offset from the water supply.

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**DESIGN FEATURES**

**PUMP**

1 Stage (Single Impeller).
Marine grade aluminium pump body with Rilsan® lining.
A.D.R. valve fitted.
Pressure switch fitted.
Pressure gauge supplied.

**MOTOR**

Davey manufactured.
2 pole, 2900rpm, 50Hz.
Class F insulation, IP56.
Permanently split capacitor design for 1Ø motors.
Double contact seal C3, high temperature greased bearings.
Inbuilt thermal overload protection with automatic reset in all 1Ø models.

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**BENEFITS**

- High TEFC - IP rating for long term protection against vermin, dust and water
- Manufactured from quality corrosion resistant materials
- Versatile pump - convertible to match different suction lifts
- Easily converted to automatic operation
- A.D.R. valve guarantees maintenance of minimum pump pressure and protection against loss of prime from over pumping
- Pumping system can be used for ‘offset’ installations
- 165D available with 3 phase motor
- Low maintenance
- O-ring seal hand tightened priming plug for easy operation

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**OPERATING LIMITS**

<table>
<thead>
<tr>
<th></th>
<th>95D</th>
<th>125D</th>
<th>165D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. suction head (m)</td>
<td>30</td>
<td>36</td>
<td>42</td>
</tr>
<tr>
<td>Max. water temp.</td>
<td>50°C</td>
<td>50°C</td>
<td>50°C</td>
</tr>
<tr>
<td>Min. water temp.</td>
<td>1°C</td>
<td>1°C</td>
<td>1°C</td>
</tr>
<tr>
<td>Pump outlet size</td>
<td>1 1/2” BSP(F)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suction pipe sizes</td>
<td>Refer injector kit</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### MATERIALS OF CONSTRUCTION

<table>
<thead>
<tr>
<th>PART</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suction cover</td>
<td>Aluminium-Rilsan® lined</td>
</tr>
<tr>
<td>Pump body</td>
<td>Aluminium-Rilsan® lined</td>
</tr>
<tr>
<td>Discharge port</td>
<td>Aluminium-Rilsan® lined</td>
</tr>
<tr>
<td>Diffuser</td>
<td>Glass filled Noryl</td>
</tr>
<tr>
<td>Backplate</td>
<td>Glass filled Noryl</td>
</tr>
<tr>
<td>Impeller</td>
<td>Glass filled polycarbonate</td>
</tr>
<tr>
<td>Seal ring (stationary)</td>
<td>Ceramic</td>
</tr>
<tr>
<td>Seal ring (rotating)</td>
<td>Carbon</td>
</tr>
<tr>
<td>Orings</td>
<td>Nitrile rubber</td>
</tr>
<tr>
<td>Priming plug</td>
<td>Nylon</td>
</tr>
<tr>
<td>Shaft sleeve</td>
<td>316 stainless steel</td>
</tr>
<tr>
<td>Motor shell</td>
<td>Aluminium</td>
</tr>
<tr>
<td>Motor shell finish</td>
<td>Polyester powder coat</td>
</tr>
<tr>
<td>Capacitor cover</td>
<td>Polypropylene</td>
</tr>
<tr>
<td>Terminal box cover</td>
<td>Polypropylene</td>
</tr>
<tr>
<td>Mounting feet</td>
<td>Xenoy®</td>
</tr>
</tbody>
</table>

### ELECTRICAL DATA

<table>
<thead>
<tr>
<th>Model</th>
<th>Supply voltage (1Ø)</th>
<th>Supply voltage (3Ø)</th>
<th>Output power (kW)</th>
<th>Max. rated current @ 240/415V (amps)</th>
<th>Locked rotor current @ 240/415V (amps)</th>
<th>Insulation class</th>
<th>IP rating</th>
<th>Starting (1Ø)</th>
</tr>
</thead>
<tbody>
<tr>
<td>95D</td>
<td>220-240</td>
<td>N/A</td>
<td>1.1</td>
<td>7.2</td>
<td>21</td>
<td>F</td>
<td>IP56</td>
<td>P.S.C.</td>
</tr>
<tr>
<td>125D</td>
<td>220-240</td>
<td>N/A</td>
<td>1.4</td>
<td>8.5</td>
<td>25</td>
<td>F</td>
<td>IP56</td>
<td>P.S.C.</td>
</tr>
<tr>
<td>165D</td>
<td>220-240</td>
<td>380-450</td>
<td>1.8</td>
<td>10/4.2</td>
<td>39/24</td>
<td>F</td>
<td>IP56</td>
<td>P.S.C.</td>
</tr>
</tbody>
</table>

### INSTALLATION & PRIMING

- To prime, fill pump body, suction and pressure pipes and injector through priming plug hole and replace plug.

**Note:** For complete details consult the installation and operating instructions.

### DIMENSIONS

#### INJECTOR OD (MAX.)

<table>
<thead>
<tr>
<th>Model</th>
<th>To Suit</th>
<th>Max. OD</th>
</tr>
</thead>
<tbody>
<tr>
<td>23100</td>
<td>Nominal 4” Bore</td>
<td>85</td>
</tr>
<tr>
<td>23125</td>
<td>Nominal 5” Bore</td>
<td>111</td>
</tr>
</tbody>
</table>

All dimensions in mm unless otherwise stated.
**TECHNICAL SPECIFICATIONS**

**INSTALLATION NOTES**

- Pump outlet: 1\(\frac{1}{4}\)/" (32mm) BSPP Female. ‘Automatic Demand Response’ fitted as standard on all models.
- Suction pipe sizes: 1\(\frac{1}{2}\)/" and 1\(\frac{3}{4}\)/" I.D. imperial polypipe for injector kit no’s 22469 - 22475 and 1\(\frac{1}{2}\)" I.D. imperial polypipe for injector kit no’s 22570 - 22573.
- Max. shut off pressures are at shallowest depth to water for each injector. Reduce by 10kPa for every 1 metre of extra depth to water.
- All performances are with injector submergence of 3m and minimum pipe length of 12m.
- All pipe fittings and hose clips are included with deep well injectors.
- For offset applications, performance will be reduced if suction pipe lengths exceed depths indicated for borehole installations.
- Pumps are supplied with pressure switches connected suitable for automatic pressure system operation in conjunction with Davey Supercell pressure tanks.
- To convert litres/min to gallons/hour multiply by 13.2. All imperial data is an approximate of metric figures. Specifications subject to change without notice.
- All single phase models supplied with plug and lead for 220/250 volt 50Hz operation. 3 phase 415 volt available in model 165D.
This literature is not a complete guide to product usage. Further information is available from your Davey dealer, Davey Customer Service Centre and from the relevant product Installation and Operating Instructions. This data sheet must be read in conjunction with the relevant product Installation and Operating Instructions and all applicable statutory requirements. Product specifications may change without notice.

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