SUBMERSIBLE GRINDER PUMPS

PRODUCT DESCRIPTION
Submersible pump consisting of a solids handling grinder inlet with a high head open impeller to pump waste water containing soft solids in suspension.

APPLICATIONS
- Grey & Black Water Pumping
- Sump Emptying
- Septic effluent & sewage disposal
- Pumping of waste water with soft solids in suspension

OPERATING LIMITS
- Capacities: 290 lpm
- Head to: 38m
- Max. submergence: 25m
- Max. operating temperature: 50°C

Suitable Fluids
Sewage or “Grey Water” of neutral pH containing up to 20% soft organic solids (some wear should be expected while pumping hard solids in suspension).

ACCESSORIES
These optional accessories are available:
- Slide rail kit - P/No SR50
- Seal Sensor relay, allows connection to contactor warning system - Part No. 49076
- Auto float switches are fitted to D120GA & D150GA models
- Separate automatic control panels available for single or multiple pump installations

DESIGN FEATURES

PUMP
- Heavy duty shredding and grinding ring at inlet.
- Centrifugal design, open impeller.
- Double Mechanical shaft seal in oil bath.
- Hard faced Silicon Carbide / Ceramic seal on pump side.
- Sand slinger lip seal for added protection.
- O-ring casing sealing.
- Corrosive resistant stainless steel and quality heavy duty powder coated cast iron pump parts.

MOTOR
- 2 pole, 2900rpm 50Hz 240 volt single phase or 415 volt three phase.
- Submersible with IPx8 enclosure.
- 10 metre HO7RN-F oil resistant power lead and seal sensor lead fitted with bared wire lead ends for easy connection to power supply terminations.
- Class E insulation.
- Protected against both high operating temperatures and high current by a built in automatically resetting thermal overload.

BENEFITS
- Able to pump soft organic solids, sanitary products, thin rubber products and even some textiles in suspension, by shredding to a slurry
- Open impeller prevents blockage of the pump by small solids in the slurry
- High heads and small solids allow connection to small discharge pipe systems, especially suited to pumping waste water to pressure sewer mains
- Silent operation
- Quick and easy installation
- Hose tail supplied with every pump
- Low maintenance
- Fully repairable
- Mounting feet with rubber cushions fitted for a firm and stable positioning during installation and operation for D120G/A, D150G/A, DT12G & DT15G.
- Adaptable to slide rails - see accessories

ACCESSORIES

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- Auto float switches are fitted to D120GA & D150GA models
- Separate automatic control panels available for single or multiple pump installations
TECHNICAL SPECIFICATIONS

MATERIALS OF CONSTRUCTION

<table>
<thead>
<tr>
<th>PART</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impeller</td>
<td>Cast iron - FC200</td>
</tr>
<tr>
<td>Shredding ring</td>
<td>High Chromium steel</td>
</tr>
<tr>
<td>Grinding ring</td>
<td>High Chromium steel</td>
</tr>
<tr>
<td>Pump casing</td>
<td>Cast iron - FC200</td>
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<tr>
<td>Outlet</td>
<td>Cast iron - FC200</td>
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<tr>
<td>Shaft seal - pump side</td>
<td>Silicon carbide/ceramic</td>
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<tr>
<td>- motor side</td>
<td>Carbon/ceramic</td>
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<tr>
<td></td>
<td>Mechanical Seals in captive oil bath and oil</td>
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<tr>
<td></td>
<td>seal.</td>
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<tr>
<td>Shaft seal elastomer</td>
<td>Nitrile rubber</td>
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<tr>
<td>Pump shaft</td>
<td>304 stainless steel</td>
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<tr>
<td>Orings</td>
<td>Nitrile rubber</td>
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<tr>
<td>Motor shell</td>
<td>304 stainless steel</td>
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<tr>
<td>Handle</td>
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<tr>
<td>Fasteners</td>
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<tr>
<td>Float &amp; power supply</td>
<td>HO7RN-F oil resistant</td>
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<td>leads</td>
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ELECTRICAL DATA

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<tr>
<th></th>
<th>D120G/GA</th>
<th>D150G/GA</th>
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<th>DT15G</th>
<th>DT22G</th>
<th>DT37G</th>
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<tbody>
<tr>
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<tr>
<td>Phase</td>
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<tr>
<td>Volts</td>
<td>220-240</td>
<td>380-415</td>
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<td>kW (nameplate)</td>
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<td>1.5</td>
<td>1.2</td>
<td>1.5</td>
<td>2.2</td>
<td>3.7</td>
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<tr>
<td>Amps - FL</td>
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<td>E class</td>
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</table>

INSTALLATION & PRIMING

Use a rope to position and retrieve the pump. Do not lower or retrieve the pump using the power lead as this may damage the cable entry seals, causing water leaks and unsafe operation.

Do not use this product for recirculating or filtering swimming pools, spas, etc. While these pumps are built to high safety standards, they are not approved for installations where people will be in the water while they are operating.

Do not pump abrasive materials. Sand and grit in the water being pumped will accelerate wear, causing shortened pump life.

Make room for the float switch to operate. Automatic models have a float switch to turn them on when the water level rises and turn them off again when it has been pumped down to the safe operating level of the pump. If the float switch is not free to rise and fall, correct pump operation may not be possible.

Don’t run your pump dry. Non-automatic models must be switched off manually or by way of an external float/level switch when the water level is reduced to the top of the pump housing.

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.

Davey Water Products Pty Ltd

DEPEND ON
DAVEY
WATER PRODUCTS

DPM126-3/3K/1007/5C supersedes DPM126-2/3K/0305/GPW

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INTERNATIONAL
D120G/D150G
DT12G/D120G
DT15G/D150G
DT22G/D120G
DT37G/D120G

All dimensions in mm unless otherwise stated.