FEATURES

Impeller: Cast iron multi-vane vortex style, with rip vane on the back edge of the impeller for removing stringy solids.

V model designation for vortex impeller

Casing: Cast iron construction with large unobstructed passage way to pass large solids.

Efficient air-filled motor

Stand: Optional stand for mounting without slide rail configuration. Part number: 7482200

Dual Mechanical Seals:

Up to 5 HP:
- For standard pumps, Tungsten Carbide vs. Ceramic seal faces standard on outer seals.
- Carbon vs. Ceramic standard on inner seals.

Over 5 HP:
- Tungsten Carbide vs. Tungsten Carbide faces standard on outer seals. Tungsten Carbide vs. Carbon standard on inner seals.
- All elastomers shall be nitrile.

For All Explosion Proof:
- Tungsten Carbide vs. Ceramic faces standard on outer and inner seals. < 5 HP use viton elastomers, > 5 HP use nitrile.

Seal Sensor / High Temperature Probe: Located in motor housing. If pumpage should begin to leak past lower seal it indicates to pump control panel a fault has occurred.

Requires MiniCAS device in the control panel.

Capable of running dry without damage to components.

Designed for continuous operation, when fully submerged.

Explosion-proof available as option. FM approved.

Shaft: Corrosion resistant, 400 series stainless steel. Taper lock and impeller bolt on all models to guard against component damage on accidental reverse rotation.

Fasteners: 300 series stainless steel.

Grease for life bearings

4GV Plus

SUBMERSIBLE 4" SEWAGE PUMP – DUAL SEAL WITH SEAL SENSOR PROBE

Goulds

Water Technology

a xylem brand
APPLICATIONS
Specifically designed for the following uses:
- Sewage systems
- Dewatering/Effluent
- Water transfer
- Light industrial
- Commercial applications

Anywhere waste or drainage must be disposed of quickly, quietly and efficiently.

SPECIFICATIONS
Pump:
- Maximum soft solid size: 3"
- Capacities: up to 1200 GPM
- Total heads: up to 80' TDH
- Discharge size: 4" ANSI Flange

Motor:
- Maximum ambient temperature: 104° F (40° C) continuous duty
- Rated for continuous duty when fully submerged
- Insulation: Class H
- 60 Hertz
- Single row ball bearings
- 400 Series stainless steel taper lock shaft
- Requires overload protection in panel (not included)
- Includes high temperature sensor for winding protection

AIR-FILLED MOTOR
- Efficient heat dissipation
- Run dry capability
- Class H insulation
- Designed for Continuous Operation: Pump ratings are within the motor manufacturer’s recommended working limits and can be operated continuously without damage when fully submerged.
- Bearings: Upper and lower heavy duty ball bearing construction for precision positioning of parts and to carry thrust loads.
- High temperature winding protection
- Cord: Severe duty rated, oil and water resistant. 30 foot standard.
- O-ring: Assures positive sealing against contaminants and oil leakage.

DIMENSIONS

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
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</thead>
<tbody>
<tr>
<td>4GV</td>
<td>30.47&quot;</td>
<td>26.54&quot;</td>
<td>17.13&quot;</td>
<td>7.48&quot;</td>
<td>9.65&quot;</td>
<td>7.48&quot;</td>
<td>7.48&quot;</td>
<td>7.48&quot;</td>
<td>8.78&quot;</td>
<td>3.94&quot;</td>
</tr>
<tr>
<td>A, B, C, D Impeller</td>
<td>[774]</td>
<td>[674]</td>
<td>[435]</td>
<td>[190]</td>
<td>[245]</td>
<td>[190]</td>
<td>[190]</td>
<td>[190]</td>
<td>[223]</td>
<td>[100]</td>
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<tr>
<td>4GV</td>
<td>26.50&quot;</td>
<td>22.56&quot;</td>
<td>16.34&quot;</td>
<td>7.48&quot;</td>
<td>8.86&quot;</td>
<td>7.48&quot;</td>
<td>7.48&quot;</td>
<td>4.72&quot;</td>
<td>8.66&quot;</td>
<td>3.94&quot;</td>
</tr>
<tr>
<td>F, G, H Impeller</td>
<td>[673]</td>
<td>[573]</td>
<td>[415]</td>
<td>[190]</td>
<td>[225]</td>
<td>[190]</td>
<td>[190]</td>
<td>[120]</td>
<td>[220]</td>
<td>[100]</td>
</tr>
</tbody>
</table>

* Shown with support kit (sold separately).
### MODEL AND MOTOR INFORMATION

<table>
<thead>
<tr>
<th>Model No.</th>
<th>HP</th>
<th>Volts</th>
<th>Phase/Hz</th>
<th>Rated Current (Amps)</th>
<th>RPM</th>
<th>Impeller Diameter (In/ mm)</th>
<th>Insulation Class</th>
<th>Run Capacitor (mfd/ volt)</th>
<th>Start Capacitor (mfd/ volt)</th>
<th>Resistance (Ohms)</th>
<th>Aux. Resistance (Ohms)</th>
<th>Start Current (LR Amps)</th>
<th>Rated Motor Eff. (%)</th>
<th>Rated Power Factor (cos phi)</th>
<th>Starting Torque (NM)</th>
<th>Max. Torque (NM)</th>
<th>Pump Weight (lbs.)</th>
<th>Cable Size with water detector and thermostats</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;A&quot; 7.95&quot; (202 mm)</td>
<td>H</td>
<td>N/A</td>
<td>N/A</td>
<td>0.505</td>
<td>N/A</td>
<td>157</td>
<td>85.1</td>
<td>0.83</td>
<td>60.0</td>
<td>98.3</td>
<td>270</td>
<td>10 AWG / 3-2-1-GC</td>
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<tr>
<td>4GV1022AD</td>
<td>10.0</td>
<td>200</td>
<td>3/60</td>
<td>31.0</td>
<td>1750</td>
<td>&quot;B&quot; 7.28&quot; (185 mm)</td>
<td>H</td>
<td>N/A</td>
<td>N/A</td>
<td>0.505</td>
<td>157</td>
<td>136</td>
<td>5.4 [F]</td>
<td>84.7</td>
<td>0.82</td>
<td>60.0</td>
<td>97.4</td>
<td>0.500</td>
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<td>4GV1023AD</td>
<td>7.5</td>
<td>200</td>
<td>3/60</td>
<td>23.5</td>
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<td>&quot;C&quot; 6.69&quot; (170 mm)</td>
<td>H</td>
<td>N/A</td>
<td>N/A</td>
<td>0.505</td>
<td>157</td>
<td>136</td>
<td>5.4 [F]</td>
<td>84.9</td>
<td>0.82</td>
<td>60.0</td>
<td>99.7</td>
<td>0.500</td>
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<td>230</td>
<td>3/60</td>
<td>21.2</td>
<td></td>
<td>&quot;D&quot; 6.19&quot; (152 mm)</td>
<td>H</td>
<td>N/A</td>
<td>N/A</td>
<td>0.505</td>
<td>157</td>
<td>136</td>
<td>5.4 [F]</td>
<td>84.9</td>
<td>0.82</td>
<td>60.0</td>
<td>99.7</td>
<td>0.500</td>
</tr>
<tr>
<td>4GV7522BD</td>
<td>3.1</td>
<td>200</td>
<td>3/60</td>
<td>11.0</td>
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<td>&quot;E&quot; 5.79&quot; (147 mm)</td>
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<td>N/A</td>
<td>N/A</td>
<td>0.505</td>
<td>157</td>
<td>136</td>
<td>5.4 [F]</td>
<td>84.9</td>
<td>0.82</td>
<td>60.0</td>
<td>99.7</td>
<td>0.500</td>
</tr>
<tr>
<td>4GV7523BD</td>
<td>3.1</td>
<td>230</td>
<td>3/60</td>
<td>10.6</td>
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<td>&quot;F&quot; 5.69&quot; (140 mm)</td>
<td>H</td>
<td>N/A</td>
<td>N/A</td>
<td>0.505</td>
<td>157</td>
<td>136</td>
<td>5.4 [F]</td>
<td>84.9</td>
<td>0.82</td>
<td>60.0</td>
<td>99.7</td>
<td>0.500</td>
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<td>4GV7524BD</td>
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<td>460</td>
<td>3/60</td>
<td>8.3</td>
<td></td>
<td>&quot;G&quot; 5.30&quot; (127 mm)</td>
<td>H</td>
<td>N/A</td>
<td>N/A</td>
<td>0.505</td>
<td>157</td>
<td>136</td>
<td>5.4 [F]</td>
<td>84.9</td>
<td>0.82</td>
<td>60.0</td>
<td>99.7</td>
<td>0.500</td>
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<td>4GV7525BD</td>
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<td>575</td>
<td>3/60</td>
<td>1750</td>
<td>19.0</td>
<td>&quot;H&quot; 7.28&quot; (202 mm)</td>
<td>H</td>
<td>N/A</td>
<td>N/A</td>
<td>0.505</td>
<td>157</td>
<td>136</td>
<td>5.4 [F]</td>
<td>84.9</td>
<td>0.82</td>
<td>60.0</td>
<td>99.7</td>
<td>0.500</td>
</tr>
</tbody>
</table>

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*Note: The table above contains information regarding model numbers, horsepower (HP), voltage (Volts), phase and frequency (Phase/Hz), rated current, RPM, impeller diameter, insulation class, run and start capacitors, resistance, auxiliary resistance, start current, rated motor kVA, rated motor efficiency, rated power factor, starting torque, max. torque, pump weight, cable size with water detector and thermostats.*
NOMENCLATURE DESCRIPTION

1st Character - Discharge Size
4 = 4" discharge

2nd and 3rd Characters - Series/Solids Size
GV = Vortex

4th Character - HP
31 = 3.1 HP
40 = 4.0 HP
50 = 5.0 HP
51 = 5.1 HP
60 = 6.0 HP
75 = 7.5 HP
10 = 10.0 HP

5th Character - Mechanical Seals
2 = 60 Hz/1750 RPM

6th Character - Phase/Voltage
2 = three phase, 200 V
3 = three phase, 230 V
4 = three phase, 460 V
5 = three phase, 575 V

7th Character - Impeller Diameter
A = 8.50"  E = 7.05"
B = 7.91"  G = 6.57"
C = 7.24"  H = 6.10"
D = 6.81"

8th Character - Cord Length
D = 30' (standard)
J = 100' (optional)

9th Character
X = Explosion Proof

APPLICATION DATA

<table>
<thead>
<tr>
<th>Item Name</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Working Pressure</td>
<td>75 PSI (5 bar) - Standard</td>
</tr>
<tr>
<td></td>
<td>150 PSI (10 bar) - Explosion Proof</td>
</tr>
<tr>
<td>Maximum Submergence</td>
<td>66 feet (20 m)</td>
</tr>
<tr>
<td>Minimum Submergence</td>
<td>Fully submerged for continuous operation</td>
</tr>
<tr>
<td>Maximum Environmental Temperature</td>
<td>40ºC (104ºF) continuous operation</td>
</tr>
</tbody>
</table>

CONSTRUCTION DETAILS

Power / Sensor Cable
10/3-2-1 GC, type: three phase - 5.1 HP and up
10/3-2-1 GC, type: three phase - 5.0 HP and less

Motor Cover
Gray Cast Iron - ASTM A48 Class 30

Seal / Bearing Housing
Gray Cast Iron - ASTM A48 Class 30

Casing
Gray Cast Iron - ASTM A48 Class 30

Impeller
Cast Iron

Motor Shaft
AISI 400 Series Stainless Steel

Motor Design
Air filled Class H

Motor Overload Protection
Three Phase: require ambient compensated Class 10, quick trip overloads in the control panel.

Motor Seal Fail / High Temp. Detection
Seal fail sensor and high temp. in an oil-filled seal chamber. Connect to optional relays in control panel.

External Hardware
300 Series Stainless steel

Impeller Type
Vortex with pump out vanes on back shroud

Oil Capacity - Seal Chamber
33.8 ounces

MATERIALS OF CONSTRUCTION

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Part Name</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Impeller</td>
<td>Cast Iron</td>
</tr>
<tr>
<td>2</td>
<td>Motor Cover</td>
<td>Cast Iron</td>
</tr>
<tr>
<td>3</td>
<td>Shaft</td>
<td>400 SS</td>
</tr>
<tr>
<td>4</td>
<td>Fasteners</td>
<td>300 SS</td>
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<tr>
<td>5</td>
<td>Ball Bearings</td>
<td>Steel</td>
</tr>
<tr>
<td>6</td>
<td>Power Cable</td>
<td>SOW, 30 feet</td>
</tr>
<tr>
<td>7</td>
<td>O-Ring</td>
<td>BUNA-N</td>
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</table>

<table>
<thead>
<tr>
<th>Service</th>
<th>Rotary</th>
<th>Stationary</th>
<th>Elastomers</th>
<th>Metal Parts</th>
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<tbody>
<tr>
<td>Upper</td>
<td>Carbon / Ceramic</td>
<td>Nitrile</td>
<td>300 Series SS</td>
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<tr>
<td>Outer</td>
<td>Tungsten Carbide / Ceramic</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>