PW-PC
Progressive Cavity Process Pump
FEATURES AND BENEFITS

- Low operating speeds for decreased wear and increased reliability
- Oversized shaft and bearings for stable, reliable operations
- Broad flow and pressure ranges with low NPSH requirements for unique Upstream Oil and Gas applications
- Minimal pulsation with uniform, controlled flow eliminating the need for dampeners
- High self-priming capabilities typically experienced in many Upstream Oil and Gas applications, including air and gas mixtures
- Large entrance ports for improved solids handling
- Low shears rates ideal for gently conveying product with solids

KEY MATERIALS OF CONSTRUCTION

- Housing and Suction Chamber
  - ASTM A216 WCB Carbon Steel
  - Optional: 316 Stainless Steel
- Rotor
  - AISI 4140 with Duktil® coating
  - Optional: 410 Stainless Steel, 316 Stainless Steel with Duktil® coating
- Stator

APPLICATIONS

- Pipeline Injection
- Salt Water Disposal
- LACT Systems

HYDRAULIC PERFORMANCE COVERAGE

60 Hz Performance Coverage

3X3 2 STAGE

3X3 4 STAGE

4X4 2 STAGE

4X4 4 STAGE

Visit our web site at www.pumpworks.com and specify flow and performance needs and obtain pump selection and performance curve.
**Delivery**
- Pump components strategically inventoried for rapid shipment in a variety of material options.

**Discharge Flange**
- Standard ANSI 600#, Raised Face rating
- 1480 PSIG MAWP

**Rotor**
- Standard corrosion resistant AISI 4140 with Duktil® coating
- 410 Stainless Steel
- 316 Stainless Steel with Duktil® coating

**Suction Chamber**
- Standard ANSI 300#, Raised Face rating
- Drilled, tapped and plugged for Vent and Drain connection
- 740 PSIG MAWP for High Suction Pressure Applications

**Stator**
- Standard HNBR
- Optional fluorelastomer Terpolymer (Viton)

**Shaft Sealing**
- Suitable for single or tandem cartridge Mechanical Seals
- All API-682 Secondary Flush Plans available

**Universal Joint Sleeve with Holding Rings**
- Protects grease-filled joints from process fluid
- Streamlined design, reducing turbulence and NPSH required

**Baseplate**
- High strength fabricated steel
- Fabricated lifting lugs

**Drive Motor**
- Direct registered flanged mount fit without additional couplings or guards
- Standard NEMA Frame for easy field replacement

**Quality**
- Manufactured and tested in the USA

**Predict Plus Gen 2 Condition Monitoring**
- Proactive alerts from the Predict-Cloud
- Continuous 24/7 on-line vibration and temperature monitoring
- Cellular interface
- Long term storage of trend data including Fast Fourier Transform (FFT)
- Class I, Div. II rated

**ePOD Pump Selector**
- Access to end users and specifiers to select your pump application online at www.pumpworks.com
PW–PC PROGRESSIVE CAVITY PROCESS PUMP

DIMENSIONS AND WEIGHS

All dimensions in inches (mm) and weights in lbs. (kg)

<table>
<thead>
<tr>
<th>PUMP SIZE</th>
<th>SUCTION SIZE</th>
<th>DISCHARGE SIZE</th>
<th>A</th>
<th>B</th>
<th>D</th>
<th>X</th>
<th>HA</th>
<th>HB</th>
<th>HC</th>
<th>HD</th>
<th>WEIGHT less motor</th>
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<tbody>
<tr>
<td>3x3 2 stage</td>
<td>3 (76)</td>
<td>3 (76)</td>
<td>74.8 (1900)</td>
<td>39.4 (1000)</td>
<td>7.1 (180)</td>
<td>6.3 (160)</td>
<td>19.0 (483)</td>
<td>113.4 (2880)</td>
<td>4.5 (114)</td>
<td>19.6 (499)</td>
<td>520 (236)</td>
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<tr>
<td>3x3 4 stage</td>
<td>3 (76)</td>
<td>3 (76)</td>
<td>117.5 (2984)</td>
<td>72.6 (1845)</td>
<td>7.1 (180)</td>
<td>7.5 (190)</td>
<td>21.0 (533)</td>
<td>152.5 (3874)</td>
<td>5.0 (127)</td>
<td>23.3 (592)</td>
<td>1915 (870)</td>
</tr>
<tr>
<td>4x4 2 stage</td>
<td>4 (102)</td>
<td>4 (102)</td>
<td>97.8 (2485)</td>
<td>50.1 (1272)</td>
<td>7.1 (180)</td>
<td>7.5 (190)</td>
<td>19.0 (483)</td>
<td>136.0 (3454)</td>
<td>5.2 (132)</td>
<td>23.3 (592)</td>
<td>749 (340)</td>
</tr>
<tr>
<td>4x4 4 stage</td>
<td>4 (102)</td>
<td>4 (102)</td>
<td>148.0 (3760)</td>
<td>91.4 (2321)</td>
<td>7.1 (180)</td>
<td>9.1 (230)</td>
<td>26.0 (660)</td>
<td>189.0 (4801)</td>
<td>5.0 (127)</td>
<td>29.1 (740)</td>
<td>3090 (1404)</td>
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<table>
<thead>
<tr>
<th>NEMA MOTOR FRAME</th>
<th>284TC</th>
<th>286TC</th>
<th>324TC</th>
<th>326TC</th>
<th>364TC</th>
<th>365TC</th>
<th>405TC</th>
<th>444TC</th>
<th>445TC</th>
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<tbody>
<tr>
<td>WEIGHT</td>
<td>430 (195)</td>
<td>445 (202)</td>
<td>585 (266)</td>
<td>620 (282)</td>
<td>895 (407)</td>
<td>910 (413)</td>
<td>1375 (625)</td>
<td>1760 (800)</td>
<td>1990 (904)</td>
</tr>
</tbody>
</table>

Dimensions and weights are approximate and not to be used for construction.

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