Compact Series
Compact Progressive-Cavity Pumps for food & personal care applications

Applications

Food and personal care applications:
The PCM Moineau range proposes the following products for food and personal care industries.

<table>
<thead>
<tr>
<th>Activity Sector</th>
<th>Products transferred with PCM Moineau Compact Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Food</td>
<td>Sugars, Starches &amp; Glucose: liquid sugars, honey, liquid pulp, glucose, and starches…</td>
</tr>
<tr>
<td></td>
<td>Fatty Products: vegetable oils and greases (Soy, sunflower, Olive, Palm, Coconut)…</td>
</tr>
<tr>
<td></td>
<td>and animal oils (tallow, lard)…</td>
</tr>
<tr>
<td></td>
<td>Drinks: wines, beers, juices, syrups…</td>
</tr>
<tr>
<td></td>
<td>Dairy Products: cheeses, creams…</td>
</tr>
<tr>
<td></td>
<td>Biscuit &amp; Pastry Products: pastries, dough, stuffing, flavorings, coatings…</td>
</tr>
<tr>
<td></td>
<td>Ingredients &amp; Additives: yeast, ferment, yeast, flavorings &amp; colorings, acids (lactic, fumaric, acetic, aroma acids…).</td>
</tr>
<tr>
<td>Cosmetic &amp; Pharmacy</td>
<td>Oils, creams, face cream, phthalamates, silicon…</td>
</tr>
<tr>
<td></td>
<td>Liquid soaps, shampoos…</td>
</tr>
<tr>
<td>Materials, &amp; Other Industries</td>
<td>Acetic acid, surface treatment, and waste treatment effluents…</td>
</tr>
<tr>
<td></td>
<td>Detergents: anionic detergents, surfactants, sodium hydroxide…</td>
</tr>
<tr>
<td></td>
<td>Foaming agents, plasticizers, polymers…</td>
</tr>
<tr>
<td></td>
<td>Water-based paint, plasticizers, clay/formers/resins, silicon…</td>
</tr>
<tr>
<td>Environment</td>
<td>Treatment of wastewater: acidic waste, foaming agents, and polymers…</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compact Series Specifications</th>
<th>Series</th>
<th>Series Hygiene</th>
<th>H Ultra-clean applications</th>
<th>Max flow rate (USGPM)</th>
<th>Max pressure (PSI)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>U</td>
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<td>Ultra-clean applications</td>
<td>CIP 180</td>
<td>360</td>
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<td></td>
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<td>in stainless steel Food and personal care applications</td>
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<td>675</td>
</tr>
<tr>
<td></td>
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<td>Compact Food and personal care applications</td>
<td>COP</td>
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<td>*cleaning possible by rinsing and draining</td>
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</table>

MV16000C4 on wine filtration pallet.
Compact M6000C4 for the transfer of soap base in the cosmetic industry.
Compact M2200C4 for feeding salted water installation.

Delasco, Inc.
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The Compact Series: Created for food and personal care applications: Reduced Size Easy Integration

- Easy Integration
- Compact Size
- Versatile, easy integration
- Compact Pump
- Simple and rugged construction in stainless steel
- Dosing pump without pulsations
- Excellent Performance/Price ratio
- Tolerates dry-running
- No valves
- Flow rate proportional to running speed
- Constant non-pulsating flow
- High suction and self-priming capabilities
- Flow rate (IDF, RJT, ISO PN10) is available on request
- Other materials (FKM), chloro-sulphonated polyethylene (CSM), or fluoro-carbonated (FKM).
- Other materials available.

Compact Series: Created for food and personal care applications: Reduced Size Easy Integration

- Very quiet operation
- Pressure increase enables the pumped fluid to compress the floating stator discharging on the drive side. Therefore, the outlet pressure rotor to move freely.
- Motor or VFD duty motor
- In stainless-steel AISI 316L
- Body: stainless-steel AISI 316L shot peening inside and outside
- Rotor: In stainless-steel AISI 316L
- Connection, CF, RF, ISO PN10 is available on request

Construction of Compact Series

- Elastomer Coupling: In-drive (NBR)
- Ensures the connection between the drive shaft and the rotor in their rotation
- Its flexibility allows eccentric movement between the rotor and the stator
- OPTIMAL: A fluoro-carbonated elastomer seals (FKM) protects the coupling for products containing solvents, acids or bases.

Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor</th>
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<tbody>
<tr>
<td>M110C4</td>
<td>0.5 HP</td>
<td>M1200C4</td>
<td>0.5 HP</td>
<td>M16000C4</td>
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</tbody>
</table>

- Connections: CLAM, SMS, DIN, NPSM and other connections (CF, RF, ISO PN10) is available on request
- Operating Speed: 250 to 1600 rpm.
- Displacement: 0.08 to 10.37 in³
- Sterilization temperature stationary: 284°F
- Maximum Pressure: 60 psi
- Maximum Flow-rate: 70 GPM
- 7 models

- Power
- Motor
- Flow at 0 psi
- Flow at 42.2 psi
- Flow at 84.7 psi
- Flow at 127 psi
- Flow at 171 psi
- Flow at 215 psi
**Construction of Compact Series**

**Drive:**
- By standard Nema C face flange-mounted motor or VFD duty motor.

**Discharge:**
- In stainless-steel AISI 316L.

**Elastomer Coupling:**
- In drive (NBR)
- Ensures the connection between the drive shaft and the rotor in their rotation.
- Its flexibility allows eccentric movement between the rotor and the stator.

**Floating Stator:**
- In nitrile (NBR), chloro-sulphonated polyethylene (CSM), or fluoro-carbonated (FPM).
- Other materials available.

**Body:**
- In stainless-steel AISI 316L.
- By standard Nema C face flange-mounted motor or VFD duty motor.

**Connections:**
- CLAM, SMS, DIN, IDF, RJT, and others.

**Dimensions:**

**Performances:**

- **Speed (rpm):**
  - 250 to 1600

- **Displacement:**
  - 0.08 to 10.37 in³

- **Sterilization temperature stationary:**
  - 284°F

- **Maximum Flow-rate:**
  - 70 GPM

- **Maximum Pressure:**
  - 60 psi

**Characteristics:**

- **Power Motor (HP):**
  - 0.5

- **Flow at 0 psi:**
  - 9.3

- **Flow at 30 psi:**
  - 3.5

- **Flow at 45 psi:**
  - 0.4

**Benefits:**

- **Compact Size**
- **Tolerates dry-running**
- **No valves**
- **Ease of Maintenance**
- **Constant non-pulsating flow**
- **Accepts fragile and viscous products**
- **Of the Moineau technology:**
  - by René Moineau, founder of PCM Pompes

**Compact Series:**

- Created for food and personal care applications.

**Dosing pump without pulsations**

**Compact Size**

- **Simple and rugged construction in stainless steel**
- **Dosing pump without pulsations**
- **Conception dedicated to food industry with COP**
- **Compact Size**
- **Tolerates dry-running**
- **No valves**
- **Ease of Maintenance**
- **Constant non-pulsating flow**
- **Accepts fragile and viscous products**
- **Of the Moineau technology:**
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**Pressures:**

- **Max. Pressure:**
  - 60 psi

- **Max. Flow-rate:**
  - 70 GPM

- **Dimensions:**
  - 4.40 x Ø 0.335

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**Mechanical Features:**

- **Drive shaft:**
  - By standard Nema C face flange-mounted motor or VFD duty motor.

- **Elastomer Coupling:**
  - In drive (NBR)
  - Ensures the connection between the drive shaft and the rotor in their rotation.
  - Its flexibility allows eccentric movement between the rotor and the stator.

- **Floating Stator:**
  - In nitrile (NBR), chloro-sulphonated polyethylene (CSM), or fluoro-carbonated (FPM).
  - Other materials available.

- **Body:**
  - In stainless-steel AISI 316L.
  - By standard Nema C face flange-mounted motor or VFD duty motor.

- **Connections:**
  - CLAM, SMS, DIN, IDF, RJT, and others.

**Diagram:**

- [Diagram of A Moineau pump setup]
The stainless steel compact
Compact Series:
PCM Pompes

**Low LCC (Life Cycle Costs)**
- Versatile, easy integration
- Easy maintenance
- Dosing pump without pulsations
- Excellent Performance/Price ratio
- Tolerates dry-running
- High suction and self-priming capabilities
- Accepts fragile and viscous products

**Benefits**
- No valves
- Ease of Maintenance
- Reduced Size
- Ease of integration

**Construction of Compact Series**
- **Drive:** By standard Nema C face flanged-mounted motor or VFD duty motor
- **Discharge:** In stainless-steel AISI 316L
- **Rotation:** In stainless-steel AISI 316L
- **Elastomer Coupling:**
  - In drive (NBR)
  - Ensures the connection between the drive shaft and the rotor in their rotation
  - Its flexibility allows eccentric movement between the rotor and the stator
  - OPTIMAL: a fluoro-carbonated elastomer sheath (FKM) protects the coupling for products containing solvents, acids or bases.

**Characteristics:**
- **Flow:** 7.87 GPM
- **Head:** 60 psi
- **Horsepower:** 0.5 HP
- **RPM:** 1725

**Performances**

- **Model**
- **Rotation**
- **Discharge**
- **Suction**
- **Pressure**
- **Flow**

**Other materials available:**
- Other materials or fluro-carbonated polyethylene (CSM), chloro-sulphonated polyethylene (CSM), or fluoro-carbonated (FKM).
**Compact Series**

**Compact Progressive-Cavity Pumps for food & personal care applications**

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**Applications**

**Food and personal care applications:**

The PCM Moineau range proposes the following products for food and personal care industries.

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<th>Products transferred with PCM Moineau Compact Series</th>
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<td>Sugars, Starches &amp; Glucose: liquid sugars, honey, starch, glucose, and starches...</td>
</tr>
<tr>
<td></td>
<td>Fats &amp; Fatty Products: vegetable oils, margarines, and hydrogenated fats...</td>
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<tr>
<td></td>
<td>Drinks: wines, juices, syrups...</td>
</tr>
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<td>Dairy Products: cheeses, creams...</td>
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<td></td>
<td>Biscuit &amp; Pastry Products: pastries, dough, stuffing, flavorings, coatings...</td>
</tr>
<tr>
<td></td>
<td>Ready-made Meals &amp; Conservatives: sauces, seasonings, sauces, ketchup, chili, tomato...</td>
</tr>
<tr>
<td></td>
<td>Ingredients &amp; Additives: yeast, yeasts, netural flavors &amp; colorings, acids (lactic, citric, acetic, amino acids...), salt, sugar...</td>
</tr>
<tr>
<td></td>
<td>Oils, creams (face creams, ointments), oils, creams...</td>
</tr>
<tr>
<td><strong>Cosmetics &amp; Parapharmacy</strong></td>
<td>Liquid soaps, shampoos...</td>
</tr>
<tr>
<td><strong>Materials, &amp; Other industries</strong></td>
<td>Detergent &amp; water treatment...</td>
</tr>
<tr>
<td><strong>Environment</strong></td>
<td>Treatment of wastewater...</td>
</tr>
</tbody>
</table>

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**Series**

<table>
<thead>
<tr>
<th>Series</th>
<th>Hygiene Cleaning</th>
<th>Max Flow rate (USGPM)</th>
<th>Max Pressure (PSI)</th>
</tr>
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<tbody>
<tr>
<td>H</td>
<td>Ultra-clean applications</td>
<td>180</td>
<td>360</td>
</tr>
<tr>
<td>I</td>
<td>in stainless steel Food and personal care applications</td>
<td>1080</td>
<td>675</td>
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<td>Compact</td>
<td>Food and personal care applications</td>
<td>70</td>
<td>60</td>
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</tbody>
</table>

*cleaning possible by rinsing and draining

CIP: Cleaning in place - COP: Cleaning out of place

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Compact Series
Compact Progressive-Cavity Pumps for food & personal care applications

**Applications**

Compact M5000C4 for the transfer of soap base in the cosmetic industry.

Compact M2200C4 for the means of salt water installation.

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<tr>
<td></td>
<td>Fatty Products: vegetable oils and greases (Olives, Groundnut, Palm, Coconut)…</td>
</tr>
<tr>
<td></td>
<td>Drinks: Wines, Beers, Juices, syrups…</td>
</tr>
<tr>
<td></td>
<td>Bakery &amp; Bakery Products: dough, stuffing, flavorings, coagulants…</td>
</tr>
<tr>
<td></td>
<td>Dairy Products &amp; Dairy Plant Effluents: cheeses, souring (cheese, milk, buttermilk)…</td>
</tr>
<tr>
<td></td>
<td>Liquid soaps, shampoos…</td>
</tr>
<tr>
<td>Cosmetic &amp; Pharmaceutics</td>
<td>Oils, essences (rose, lavender, jasmine), limonene…</td>
</tr>
<tr>
<td>Materials, &amp; Other industries</td>
<td>Acidic surface treatment and water treatment effluents…</td>
</tr>
<tr>
<td></td>
<td>Detergent products (detergents, surfactants, sodium hydride… )…</td>
</tr>
<tr>
<td></td>
<td>Flocculants, Polymers…</td>
</tr>
<tr>
<td></td>
<td>Water-based paint, Pesticides, Urea/formal resin, Silicon…</td>
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<tr>
<td>Environment</td>
<td>Treatment of wastewater: acids, inks, flocculants, and polymers…</td>
</tr>
</tbody>
</table>

**Compact Series**

**Series** | **Max Flow (USGPM)** | **Max Pressure (PSI)**
--- | --- | ---
Hy | 180 | 360
I | 1080 | 675
Compact | 70 | 60

*CIP: Cleaning in place - COP: Cleaning out of place

**MV1600C4 on wine filtration pallet.**

**Compact M6000C4 for the transfer of soap base in the cosmetic industry.**

**Compact M2200C4 for feeding salt water installation.**

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