Pressdrive Booster

Automatic start and stop device

Applications
Assembled on a pump, automatic start and stop based on water demand. Adjustable starting pressure range from 1.5 to 2.5 bar.

Materials
Plastic components in technopolymer. Internal membrane in EPDM.

Equipment

Feature table

<table>
<thead>
<tr>
<th>Model</th>
<th>I [A] max.</th>
<th>Hz</th>
<th>Protection</th>
<th>Maximum pressure</th>
<th>Starting pressure</th>
<th>Diferential pressure</th>
<th>Stopping pressure</th>
<th>Max. temp. [°C]</th>
<th>Ø Connection</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressdrive</td>
<td>12</td>
<td>50/60</td>
<td>IP X5</td>
<td>10 bar</td>
<td>1.5 - 2.5 bar</td>
<td>≥ 0.7 bar</td>
<td>Max. given by the pump</td>
<td>40</td>
<td>1&quot;</td>
<td>205333</td>
</tr>
</tbody>
</table>

Dimension and weight

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B [Kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressdrive</td>
<td>281</td>
<td>1.5</td>
</tr>
</tbody>
</table>
PDS Booster

Automatic set for water supply

Applications
Automatic pumping of clean water for domestic, industrial, agricultural and gardening purposes.
Silent.
Self-priming up to 2m.
Adjustable starting pressure range from 1.5 to 2.5 bar.

Materials
Prisma:
Suction and discharge in cast iron with cataphoresis coating. Mechanical seal in aluminium-graphite. Motor casing in aluminium. O-rings in NBR/EPDM.

Pressdrive:
Plastic components in technopolymer. Internal membrane in EPDM.

Motor
Asynchronous 2 poles.
IPX5 protection.
Class F insulation.
Built-in thermal protection.
Continuous operation.

Limitations
Maximum water temperature: 40° C.

Equipment
Built-in check valve.
Unions included.
2m of cable with plug type F. Dry-protection function.
Automatic reset function.

Operation
Automatic start and stop based on water demand.

Hydraulic performance table

<table>
<thead>
<tr>
<th>Model</th>
<th>I [A]</th>
<th>P1 [kW]</th>
<th>P2 [µF]</th>
<th>1/min</th>
<th>20</th>
<th>40</th>
<th>50</th>
<th>60</th>
<th>100</th>
<th>120</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDS 3-50</td>
<td>2.7</td>
<td>0.61</td>
<td>0.37</td>
<td>0.5</td>
<td>12</td>
<td>30</td>
<td>22</td>
<td>17</td>
<td>11</td>
<td>12</td>
<td>199512</td>
</tr>
<tr>
<td>PDS 3-75</td>
<td>3.5</td>
<td>0.79</td>
<td>0.55</td>
<td>0.75</td>
<td>12</td>
<td>39</td>
<td>27</td>
<td>22</td>
<td>14</td>
<td>12</td>
<td>199513</td>
</tr>
<tr>
<td>PDS 3-100</td>
<td>4.1</td>
<td>0.95</td>
<td>0.75</td>
<td>1</td>
<td>12</td>
<td>47</td>
<td>34</td>
<td>25</td>
<td>17</td>
<td>12</td>
<td>199514</td>
</tr>
<tr>
<td>PDS 6-100</td>
<td>5.5</td>
<td>1.2</td>
<td>0.75</td>
<td>1</td>
<td>16</td>
<td>34</td>
<td>32</td>
<td>30</td>
<td>28</td>
<td>19</td>
<td>12</td>
</tr>
<tr>
<td>PDS 6-125</td>
<td>6.8</td>
<td>1.5</td>
<td>0.9</td>
<td>1.2</td>
<td>16</td>
<td>44</td>
<td>42</td>
<td>40</td>
<td>37</td>
<td>24</td>
<td>15</td>
</tr>
</tbody>
</table>

Performance curve at 2900 rpm

Dimension and weight

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDS 3-50</td>
<td>390</td>
<td>431</td>
<td>1”</td>
<td>1”</td>
<td>102</td>
<td>11,2</td>
</tr>
<tr>
<td>PDS 3-75</td>
<td>413</td>
<td>431</td>
<td>1”</td>
<td>1”</td>
<td>102</td>
<td>11,7</td>
</tr>
<tr>
<td>PDS 3-100</td>
<td>437</td>
<td>431</td>
<td>1”</td>
<td>1”</td>
<td>102</td>
<td>12,7</td>
</tr>
<tr>
<td>PDS 6-100</td>
<td>420</td>
<td>529</td>
<td>1”</td>
<td>1”</td>
<td>118</td>
<td>15,2</td>
</tr>
<tr>
<td>PDS 6-125</td>
<td>447</td>
<td>529</td>
<td>1”</td>
<td>1”</td>
<td>118</td>
<td>16,3</td>
</tr>
</tbody>
</table>
Pressdrive 05 Booster

Automatic start and stop device

Applications
Assembled on a pump, automatic start and stop based on water demand. Adjustable starting pressure range from 1,5 to 2,5 bar.

Materials
Plastic components in technopolymer. Internal membrane in EPDM.

Equipment
Built-in check valve.
Unions included.
Model NP: Cables without plug.
Model 2E: Cables with plug type F.
Dry-protection function.
Automatic reset function.

Feature table

<table>
<thead>
<tr>
<th>Model</th>
<th>I [A] max.</th>
<th>Hz</th>
<th>Protection</th>
<th>Maximum pressure</th>
<th>Starting pressure</th>
<th>Differential pressure</th>
<th>Stopping pressure</th>
<th>Max. temp. [°C]</th>
<th>Ø Connection</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressdrive 05</td>
<td>12</td>
<td>50/60</td>
<td>IP XS</td>
<td>10 bar</td>
<td>1,5 - 2,5 bar</td>
<td>≥ 1 bar</td>
<td>Max. given by the pump</td>
<td>40</td>
<td>1”</td>
<td>205331</td>
</tr>
</tbody>
</table>

Dimension and weight

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressdrive 05</td>
<td>213</td>
<td>155</td>
<td>1”</td>
<td>108</td>
<td>195</td>
<td>1,5</td>
</tr>
</tbody>
</table>
PDS 05 Booster

Automatic set for water supply

**Applications**
Automatic pumping of clean water for domestic, industrial, agricultural and gardening purposes.
Silent.
Self-priming up to 2m.
Adjustable starting pressure range from 1,5 to 2,5 bar.

**Materials**
Prisma:
Pump body and impellers in AISI 304.
Pump shaft in AISI 431.
Diffusers in technopolymer.
Suction and discharge in cast iron with cataphoresis coating.
Mechanical seal in aluminium-graphite.
Motor casing in aluminium.
O-rings in NBR/EPDM.
Pressdrive 05:
Plastic components in technopolymer.
Internal membrane in EPDM.

**Motor**
Asynchronous 2 poles.
IPX5 protection.
Class F insulation.
Built-in thermal protection.
Continuous operation.

**Limitations**
Maximum water temperature: 40°C.

**Equipment**
Built-in check valve.
Unions included.
2m of cable with plug type F.
Dry-protection function.
Automatic reset function.

**Operation**
Automatic start and stop based on water demand.

---

**Hydraulic performance table**

<table>
<thead>
<tr>
<th>Model</th>
<th>1~230V</th>
<th>kW</th>
<th>[µF]</th>
<th>l/min</th>
<th>20</th>
<th>40</th>
<th>50</th>
<th>60</th>
<th>100</th>
<th>120</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDS 05 3-50</td>
<td>2,7</td>
<td>0,63</td>
<td>0,37</td>
<td>0,5</td>
<td>12</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>PDS 05 3-75</td>
<td>3,5</td>
<td>0,79</td>
<td>0,55</td>
<td>0,75</td>
<td>12</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>PDS 05 3-100</td>
<td>4,1</td>
<td>0,95</td>
<td>0,75</td>
<td>1</td>
<td>12</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>204702</td>
</tr>
<tr>
<td>PDS 05 6-100</td>
<td>5,5</td>
<td>1,2</td>
<td>0,75</td>
<td>1</td>
<td>16</td>
<td>34</td>
<td>22</td>
<td>17</td>
<td>11</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>PDS 05 6-125</td>
<td>6,8</td>
<td>1,5</td>
<td>0,9</td>
<td>1,2</td>
<td>16</td>
<td>44</td>
<td>22</td>
<td>17</td>
<td>11</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

---

**Performance curve at 2900 rpm**

**Dimension and weight**

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDS 05 3-50</td>
<td>390</td>
<td>345</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td>102</td>
<td>10,8</td>
</tr>
<tr>
<td>PDS 05 3-75</td>
<td>413</td>
<td>345</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td>102</td>
<td>11,3</td>
</tr>
<tr>
<td>PDS 05 3-100</td>
<td>437</td>
<td>345</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td>102</td>
<td>12,3</td>
</tr>
<tr>
<td>PDS 05 6-100</td>
<td>420</td>
<td>443</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td>108</td>
<td>14,8</td>
</tr>
<tr>
<td>PDS 05 6-125</td>
<td>447</td>
<td>443</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td>108</td>
<td>15,9</td>
</tr>
</tbody>
</table>