Eccentric screw pumps

SP6/1B

SP5 B03 with variable speed gear, adjustable via handwheel

SP5/1B (optionally with fruit hopper)
Eccentric screw pumps
Our pumps are the ideal supplement for your voran® fruit-processing machines. Be it the further transport of your pitted fruits or the ground fruit or vegetable mashes. The pumps establish the connection between milling, pressing, or pitting systems and tanks.

Our eccentric screw pumps are distinguished by their gentle handling of the products, their precisely controllable flow rate (for control pumps), their self-pumping capacity and their multifaceted applications ranging from water to heterogeneous and highly viscous products.

Functioning
The cavities between the eccentrically supported screw and the matching stator always remain the same size during pumping and move toward the pump outlet. This ensures that the pumped product is gently pushed from the extraction to the discharge side. The pumps are suited for grain and fruit mashes and also for whole berries, ground vegetables, and wines or juices. Cores and pits are barely destroyed so that stone fruit can also be pumped, particularly with type SP 6 B. All pump components are produced from stainless steel. In addition to this, a large stainless-steel funnel can be delivered with a feed screw for manual feed.

Optional accessories
We offer all of the accessories required to integrate our pumps in your complete solution: Fruit hoppers, fixtures, hoses, and connectors for the upstream and downstream voran® machines. Switchboxes can also be offered which can be used to automatically switch the pumps on and off from our voran® processing machines.

Benefits
- Easy cleaning, no areas which are difficult to clean and no dead spaces
- Extremely gentle, pulsation-free transport
- Large self-extraction capacity of up to a 6-metre water column.
- Compact mobile design, stainless-steel rust-proof frame
- All of the parts coming into contact with the transported medium are produced from rust-proof stainless steel 1.4301
- Non-porous welded structure
- Pumps operated completely drip-free due to installed mechanical axial shaft seals
- Low destruction of seeds and pits
- No increase in tanning agents or cloudiness
- Transport of whole fruits and grapes
- Transport of hot media (standard design up to 60° C)
- Transport of juiced mashes, pomace and grapes
- Complete range of accessories available

SP 6 B model: All pump parts are made of stainless steel.

Typical pump combination

<table>
<thead>
<tr>
<th>Type</th>
<th>SP 5/1B</th>
<th>SP 5B03</th>
<th>SP 6/1B</th>
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</thead>
<tbody>
<tr>
<td>Pump capacity (water) in l/h</td>
<td>5,000/10,000</td>
<td>500 – 3,000</td>
<td>10,000/20,000</td>
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<tr>
<td>Connected load in kW</td>
<td>1.0/1.9</td>
<td>2.2</td>
<td>2.3/3.5</td>
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<tr>
<td>Speed in rpm</td>
<td>700/1,400</td>
<td>280 – 1,400</td>
<td>700/1,400</td>
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<tr>
<td>Electrical connection*</td>
<td>400 V/50 Hz (three-phase)</td>
<td>400 V/50 Hz (three-phase)</td>
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<tr>
<td>Dimensions L/W/H in mm</td>
<td>1,270/500/810</td>
<td>1,270/500/810</td>
<td>1,270/500/810</td>
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<tr>
<td>Weight in kg</td>
<td>57</td>
<td>78</td>
<td>90</td>
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<tr>
<td>Design</td>
<td>Stainless steel**</td>
<td>Stainless steel**</td>
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</tbody>
</table>

*Other mains voltages and designs on request
**Fulfils EC 1935/2004

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