QUICKSERVICE PROGRESSIVE CAVITY PUMP

CavityComfort progressive cavity pump: quicker service, straightforward and more practical
POWER-PERFORMER WITH MAXIMUM SERVICING CONVENIENCE

The practical CavityComfort progressive cavity pump for heavy-duty applications

Sturdy Cardan shaft with protective sleeve; this does not have to be removed for rotor or stator change.

Quality cartridge mechanical seal

Easy and quick service with a highly compact footprint

Seal replacement without opening the pump

Clever combination: Reliable pumping and simple parts replacement

As rotating, positive displacement pumps, Vogelsang’s CavityComfort (CC series) have proven themselves especially in demanding applications. The robust progressive cavity pumps demonstrate their durability and reliable pumping performance in applications involving highly viscous and abrasive media that may also have a high content of foreign matter. Thanks to the innovative design, CC series pumps are especially favored when long periods of downtime for service and maintenance are simply unacceptable.

The principle

The CC progressive cavity pumps from Vogelsang combine a helical rotor with a stator surrounding the rotor, which also has a helical mount. Because of their geometry and the eccentric rotation of the rotor, cavities are created within the stator through which highly viscous media can be pumped. Since the pumping principle relies on sealing contact between the rotor and stator, pumping against high pressures is also possible without loss of power.

SERVICEmode: Unique concept for rapid parts replacement

Our customers appreciate the straightforward accessibility of pumping elements in CC series pumps. This enables parts to be replaced with speed and ease unparalleled among progressive cavity pumps – so the pump is ready for operation again in a short time. The stator and rotor to be replaced are simply replaced as a unit. The entire rotating unit (stator, rotor, Cardan shaft) can also be replaced if necessary. Alternatively, the stator can be removed after pivoting the pumping elements as unit out. Next the rotor and/or Cardan shaft are replaced, if necessary. But however you decide to proceed, it is not necessary to remove the sleeve that protects the robust Cardan shaft. And thanks to the clever swiveling mechanism, it’s not necessary to disassemble parts of the pipe system for maintenance and repair.

Practical sealing change

The tried-and-trusted cartridge mechanical seal is used for the pump shaft seal. Since it is a preassembled mechanical seal, it can be quickly and easily replaced on-site – usually after removing the Cardan shaft through the pump chamber. When the parallel shaft geared motor is removed, the seal is accessible from the drive end, where it can be replaced with just a few motions – without opening the pump.

Clever details ensure a long lifetime

In designing the CC series, the Vogelsang developers worked to optimize many factors that affect service life. To prevent faults, for example, the Cardan shaft is generously dimensioned and is protected by a durable sleeve as standard. Sturdy parallel shaft geared motors supply the drive power. The flow-optimized StreamLine suction housing ensures extremely large free passage within the entire pump and avoids blockages. As an alternative, the MultiConnect suction housing allows multiple pipe systems of different sizes and connector forms to be easily and directly connected. The integrated stone trap protects against damage caused by heavy matter.

Advantages of CC series:

- Easy and quick to service with minimal space requirements
- No disassembly of pipelines necessary
- QualityCartridge mechanical seal
- Seal replacement without opening the pump
- Sturdy cardan shaft with protective sleeve
- Rotor, stator or seal replacement without dismantling the protective sleeve

SPECIFICATION

<table>
<thead>
<tr>
<th>Type*</th>
<th>Max. capacity**</th>
<th>Max. pressure</th>
<th>Max. free passage</th>
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</table>

* D1/M1: single-stage progressive cavity pump, M2: two-stage progressive cavity pump
** Maximum theoretical capacity. In practice, the capacity is normally lower, depending on pressure difference, medium viscosity and pump installation.
What we offer
We provide solutions in the following sectors:
AGRICULTURE, BIOGAS, INDUSTRY,
TRANSPORTATION, WASTE WATER

Our broad range of products and services
• Consulting and service
• Data management and control technology
• Disintegration technology
• Individually tailored solutions for special applications
• Pumps and pump systems
• Solid matter feeders
• Solids reduction, separators and mixers
• Spreading technology
• Supply, disposal and cleaning