

UNIBLOC®-PD

POSITIVE DISPLACEMENT PUMP



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UNIBLOC®-PUMP

VERSATILITY IN UNIBLOC®

The most innovative and advanced PD-pump has been developed to meet tomorrow's needs expressed by today's users. The **UNIBLOC®** pumps both thin and thick liquids at a high rate of efficiency and capacities up to 525GPM (2000 LPM).

UNIBLOC®

UNIBLOC® is applicable in many industries, including pharmaceutical, food, beverage and bakery and is designed to conform to **3-A, ATEX, USDA, EHEDG** and **FDA** requirements. Each pump is available with several seal options without modifications to the rotor housing. Pumps with stainless rotors are CIP & SIP able.

UNIBLOC®

UNIBLOC® can be mounted with either **horizontal** or **vertical** through-put and operates equally well in **both directions**. Pump versions for **400 PSIG (27 Bar)** are available.



ROTOR HOUSING

UNIBLOC's® large streamlined inlet & outlet ports allow for smooth and low shear product flow. The **vertical** through-put version lowers the NPSH to a minimum and allows for **self draining**. The flush and **cavity free front** cover prevents product build up and promotes cleanability. The ports are machined directly from the housing eliminating porosity concerns possible with welding.

ROTORS

The unique geometry of the rotors results in a non-pulsating flow. The rotor arch design produces a long sealing path which results in easier priming and reduces internal leakage. The unique rotor design, in combination with the rotor housing, minimizes cavitation risks and provides for large particles to be pumped. **The rotors can only be mounted on the shaft one way.** Tri-Lobe rotors and High Pressure (HP) circumferential piston rotors are now available with no modifications required to Rotor Housing and Shafts. Also Asceptic design rotors allows for high purity operations and cleaning.

TEMPERATURES

Standard pumps are engineered for operation up to 250°F (121°C). With hot clearance rotors, the pump can perform up to 400°F (205°C).

SEALS

UNIBLOC® standard seals consist of single & double mechanical, O-ring seals and O-lip seals. All seal options are available with flush glands. One design pump rotor housing allows to accept all seal options without modifications to pump.

SHAFTS

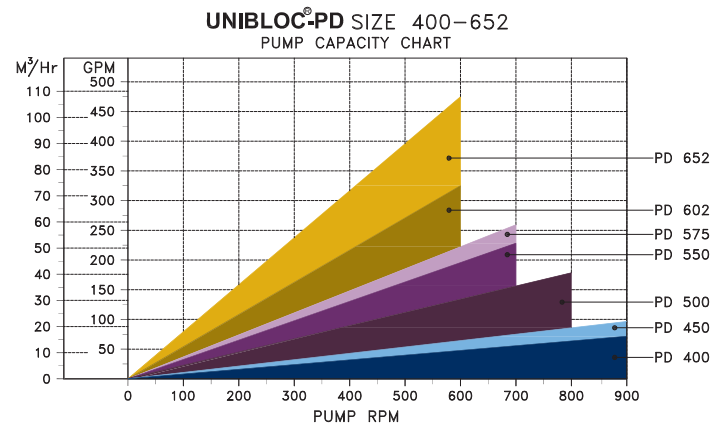
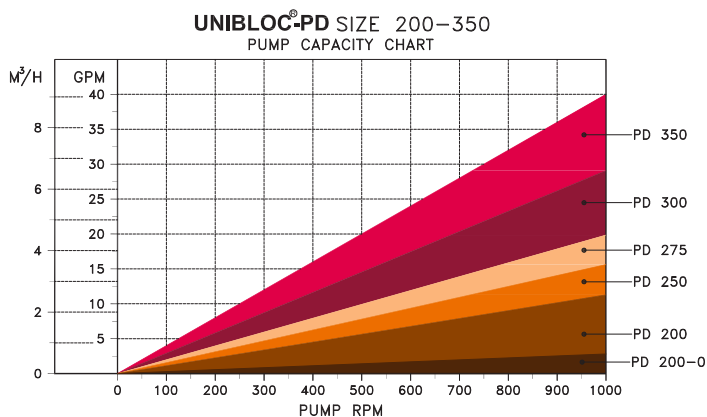
The robust and oversized shafts are supported in the UNIBLOC® designed gearbox with TIMKEN® roller bearings..



GEARBOX

UNIBLOC's® uniquely engineered heavy duty gearbox design makes it the most service friendly available. The gearbox is available as **permanently lubricated** and high precision helical cut gears assure smooth and quiet operation.

UNIBLOC® 5000 SERIES FEATURES ALL STAINLESS STEEL COMPONENTS, INCLUDING THE GEARBOX AND FOOT, FOR TOTAL CLEANLINESS AND RUST PREVENTION.



MATERIALS

Standard materials are 316 or 316L non-galling stainless and non-metallic. **AL6XN** and **Hastelloy C** parts are available on request. Material documentation are also available.

MAINTENANCE

The **UNIBLOC®** is engineered with little and easy maintenance in mind. **No special tools are needed.** Many parts are similar for several sizes of pumps. Automatic and accurate rotor timing has been engineered into the pump and parts fit only one way, the right way. No special fitted rotors that are interchangeable.

OPTIONAL

- Vented cover with various spring loads
- Aluminum or steel gearbox
- Heating or cooling jackets for front cover and rotor housing
- Electric, pneumatic or hydraulic drives
- Controllers for drivers
- Electropolishing/Mechanical Polishing
- ATEX rated pumps available
- Special Rotor Designs for specific applications
- Side on Pump Rotor Housing
- Electronic or Paper documentation available



WARRANTY

Available at our distributors.

We reserve the right to technical changes without notice, including orders received.

UNIBLOC® is a Registered Trademark. Patented Design

Distributor:



JH Process Equipment Inc. | 617 Jeffers Circle, Exton, PA 19341 | 610-903-0900 | www.jhprocess.com