

UNIBLOC® -PD

POSITIVE DISPLACEMENT PUMP



TEKNOFLOW, INC.

FLOWTECH, DIV.

ATLANTA, GEORGIA - USA

UNIBLOC® SPECIFICATIONS

MATERIALS

Standard materials are 316 316L non-galling stainless and non-metallic. AL6XN and Hastelloy C parts are available on request.

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 have been engineered into the pump and parts fit only one way, the right way.

OPTIONS

- 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
- Electro polishing

WARRANTY

Available at our distributors. We reserve the right to technical changes without notice, including orders received.

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.

UNIBLOC

Unibloc is applicable in many industries, including pharmaceutical, food, beverage and bakery and is designed to conform to 3-A, USDA and FDA requirements. Each pump is available with several seal options without modifications to the rotor housing.

Unibloc can be mounted with either horizontal or vertical through-put and operates equally well in both directions. Pump versions for 200 psi are available.

ROTOR HOUSING

UNIBLOC's large streamlined inlet & outlet ports allow for smooth and low shear product flow. The vertical throughput 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 clean ability. 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 cavitations risks. Large particles can also be pumped. The rotors can only be mounted on the shaft one way.

TEMPERATURES

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

SEALS

Unibloc standard seals consist of single & double mechanical, o-ring seals and O-lip seals. All seal options are available with flush glands.

SHAFTS

The robust shafts are supported in the Unibloc designed gearbox with TIMKEN rolling bearings.

GEARBOX

Unibloc's uniquely engineered heavy-duty gearbox design makes it the most service friendly available. The gearbox is 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.