

PB Three Rotor Screw Pump Series

**Shanley Pump
& Equipment, Inc.**



PB

Features

Seim screw pumps are positive displacement, self-priming pumps suited to handle various oils and other fluids with minimum lubricating properties. They are also used for pumping water-based coolants for machine tool and lubrication systems. The three rotor screw pump design makes them intrinsically reliable and efficient in their applications.

The SEIM PB three rotor screw pump series is designed to work with fluid viscosities as low as 1 cSt (31 ssu) – 400 cSt (1,800 ssu) in low to medium pressure pumping applications. It's self-priming capability and low noise level allows continuous duty at 580 PSI (40 bar).

Description

The PB series inlet port is available in axial and radial configurations. A magnetic coupling version of the pump is also available upon request. The series operates at a flow range of 5-50 GPM, with maximum differential pressure of 580 PSI. It is also suitable up to 302°F. For applications such as machine tools and lubrication, the PB series is the most suitable pump option. It is used ideally to replace gear, internal gear and centrifugal pumps, due to its low noise levels, high efficiency and reliability. Its compact design with hardened screws, are used in submersible or out of tank arrangements. We supply complete PB pump units with motors upon request.



**Shanley Pump
& Equipment, Inc.**








2525 S. Clearbrook Drive
Arlington Heights, IL 60005
P: 847.439.9200
F: 847.439.9388
www.shanleypump.com
sales@shanleypump.com

Usage

Functional characteristics of a PB Screw pump are:

- Very low noise levels
- Wide range viscosity compatibility
- High rotation rates = minimizing the size and cost of the pump
- No vibrations
- Minimum sensitivity to particle pollution
- High self-priming capacity
- Special design for systems with entrained air in the lubricant
- During operation, the PB entraps air bubbles inside its body to suppress system noise
- Minimum pulsations
- Integrated safety pressure valve for full range

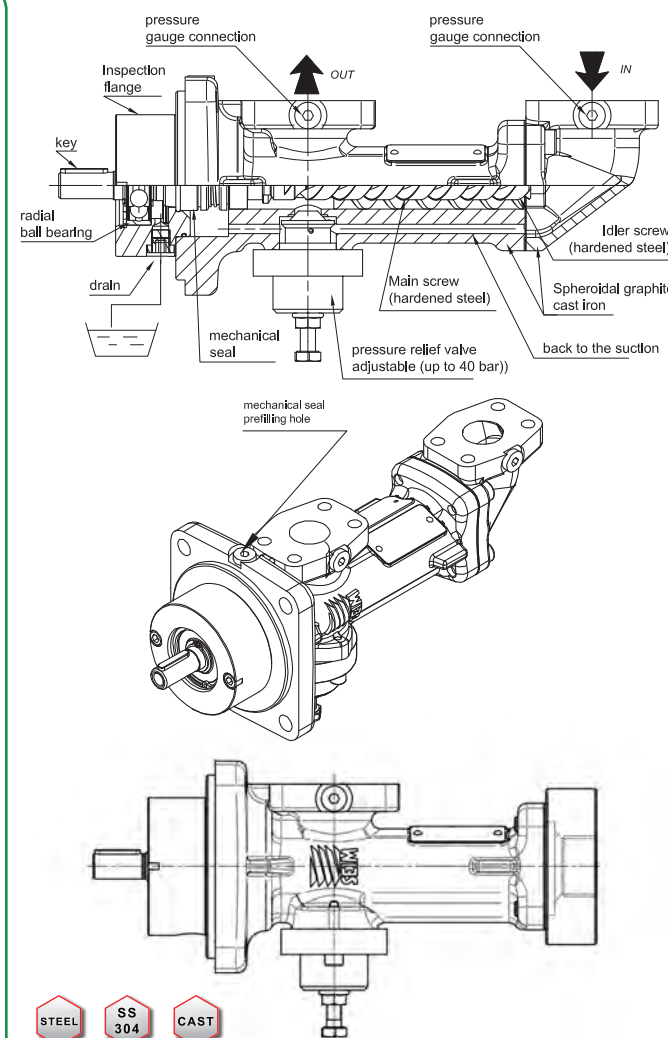
Main Applications

-  Glycol & Water Based Coolant Applications
-  Oil Pumping Applications
-  High Viscosity Fluid Pumping
-  Plant Engineering Pumping
-  Recirculation Systems Pumping
-  Lubrication Systems Pumping
-  Fuel Firing Application

GPM 5 - 50 GPM

PSI up to 580 PSI

TEMP 32°F - +302°F



**Dimensions
Drawings**

[Click here for complete dimensional drawings](#)



Performance Curve

For specific applications data on viscosity and pressure please contact us and we send you details about flow rates.



To download our screw pump fax form click here