



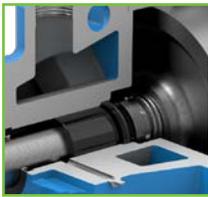
## 224A SERIES™, 4224A SERIES™, 4224B SERIES™, 324A SERIES™, 4324A SERIES™

CAST IRON CONSTRUCTION | UNIVERSAL PRODUCT LINE



### FEATURES & BENEFITS

- Rugged and reliable, yet economical
- Widest range of sizes and options available to suit almost any non-corrosive application
- Integral jacket chambers in the bracket and head surround the seal and pump internals for rapid & efficient heating using steam or hot oil



Behind the Rotor Seal



Component Seal



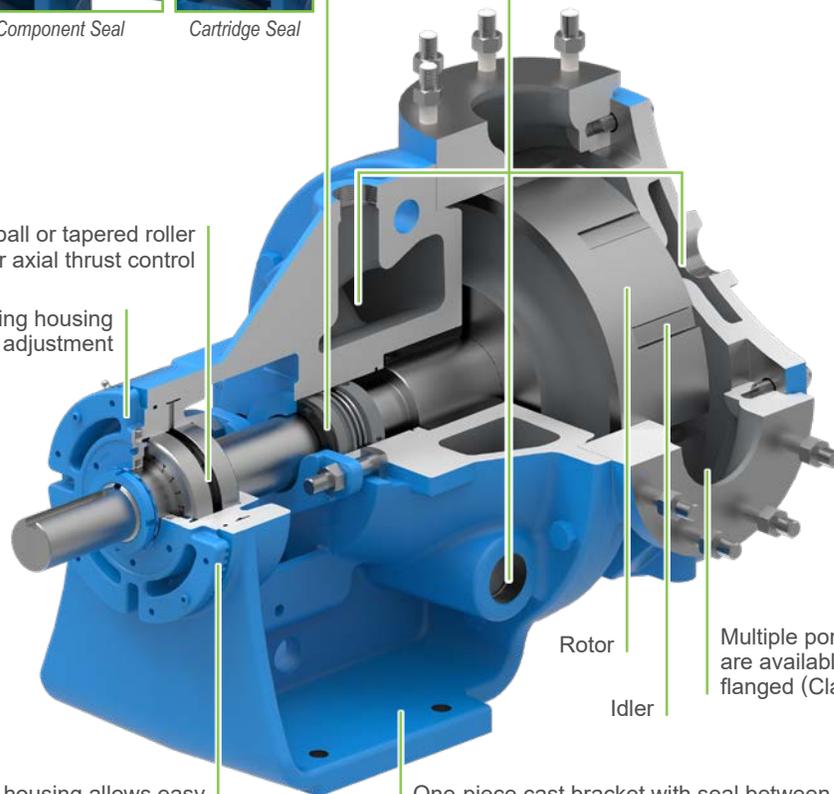
Cartridge Seal

Seal chamber accepts packing and a variety of component and cartridge style mechanical and lip seals, in both single and double mechanical seal configurations; behind the rotor seal (4224B Series™) option also available

Jacketing for steam, hot oil, or water circulation to maintain a constant temperature

Double row ball or tapered roller bearings for axial thrust control

Threaded one-piece bearing housing allows for easy end clearance adjustment



M4224A

Rotor

Idler

Multiple port sizes, types, and ratings are available including threaded and flanged (Class 125, Class 250)

Large diameter threaded bearing housing allows easy removal of cartridge seals (not 4224B Series™)

One-piece cast bracket with seal between bearings provides rigid foundation to maximize seal and bearing life



**CAPACITY**  
to 1,600 GPM  
(363 m<sup>3</sup>/h)



**PRESSURE**  
to 200 PSI  
(14 BAR)



**VISCOSITY**  
28 to 2,000,000 SSU  
(0.1 to 440,000 cSt)



**TEMPERATURE**  
-60°F to +450°F  
(-50°C to +230°C)

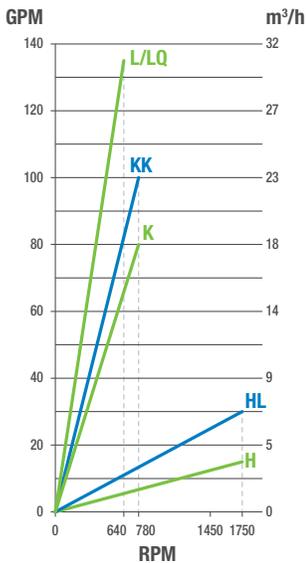
# PERFORMANCE

| MODELS       |                 |                       | SPECIFICATIONS                           |      |                   |                |        |
|--------------|-----------------|-----------------------|--|------|-------------------|----------------|--------|
| Jacketed     |                 |                       | Nominal Pump Rating<br>(100 SSU & Below) |      |                   | Standard Ports |        |
| Packed Gland | Mechanical Seal | Behind the Rotor Seal | Max Speed, RPM                           | GPM  | m <sup>3</sup> /h | Size, Inches   | Type   |
| H224A        | H4224A          | H4224B                | 1750                                     | 15   | 3.5               | 1.5            | NPT    |
| HL224A       | HL4224A         | HL4224B               | 1750                                     | 30   | 7                 | 1.5            | NPT    |
| K224A        | K4224A          | K4224B                | 780                                      | 80   | 18                | 2              | NPT    |
| KK224A       | KK4224A         | KK4224B               | 780                                      | 100  | 23                | 2              | NPT    |
| L224A        | L4224A          | L4224B                | 640                                      | 135  | 31                | 2              | NPT    |
| LQ224A       | LQ4224A         | LQ4224B               | 640                                      | 135  | 31                | 2.5            | Flange |
| LL224A       | LL4224A         | LL4224B               | 520                                      | 140  | 32                | 3              | Flange |
| LS224A       | LS4224A         | LS4224B               | 640                                      | 200  | 45                | 3              | Flange |
| Q224A        | Q4224A          | Q4224B                | 520                                      | 300  | 68                | 4              | Flange |
| QS224A       | QS4224A         | QS4224B               | 520                                      | 500  | 114               | 6              | Flange |
| M224A        | M4224A          | —                     | 420                                      | 420  | 95                | 4              | Flange |
| N324A        | N4324A          | —                     | 350                                      | 600  | 136               | 6              | Flange |
| R324A        | R4324A          | —                     | 280                                      | 1100 | 250               | 8              | Flange |
| RS324A       | RS4324A         | —                     | 280                                      | 1600 | 363               | 10             | Flange |

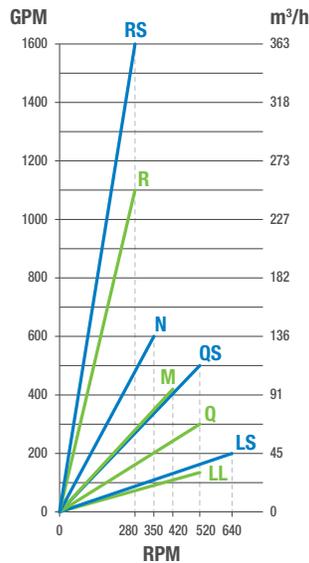
Jacketed bracket and jacketed head are standard.

# CURVES

## NPT PORTS



## FLANGE PORTS



# PORTING

- Right Angle (90°) (Rotatable Casing), H-Q & M
- Opposite (180°), QS-RS
- NPT / BSP
- Flanged (ANSI)

# SEALING

- Packing
- Behind the Rotor Seal
- Component Mechanical Seal
- Cartridge Mechanical Seal
- Cartridge Triple Lip Seal

# MOUNTING

- Foot Mount



(HL4224B R Drive)

# DRIVES

- Ⓡ Offset Gear Reducer Drive
- Ⓟ Purchased Gear Reducer Drive
- ⓓ Direct-Mounted Drive, H-HL
- Ⓥ V-Belt Drive

# TYPICAL APPLICATIONS

- Asphalt & Bitumens
- Chocolate
- Molasses
- Heavy Fuel Oil
- Waxes
- Rubber Solution



**VIKING PUMP, INC.**  
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