



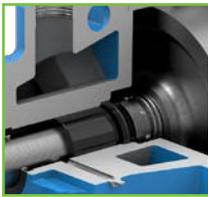
224A SERIES™, 4224A SERIES™, 4224B SERIES™, 324A SERIES™, 4324A SERIES™

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



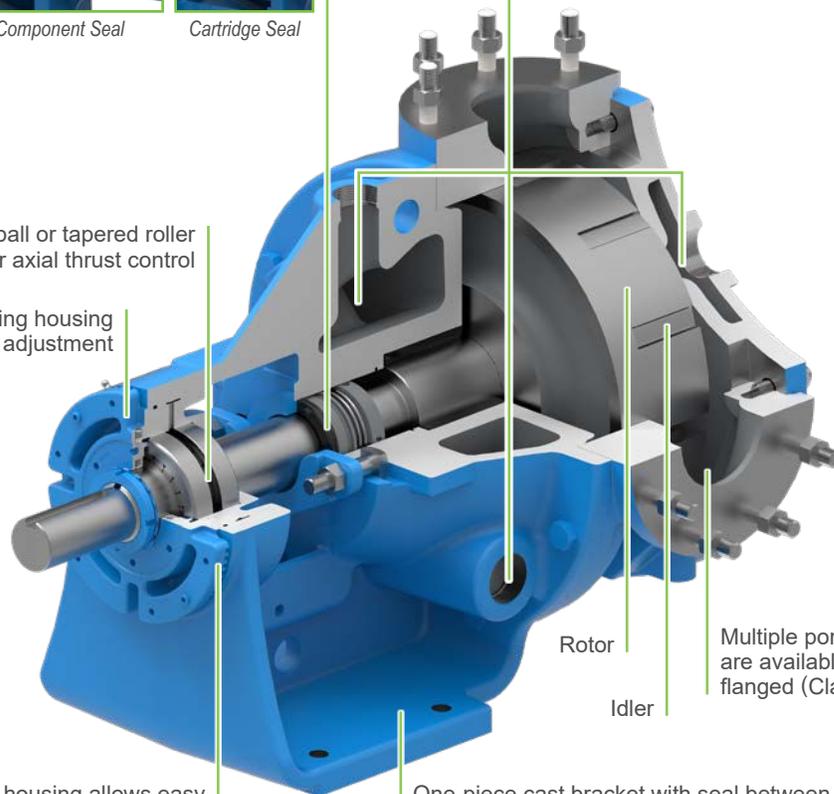
Cartridge Seal

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 m³/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)

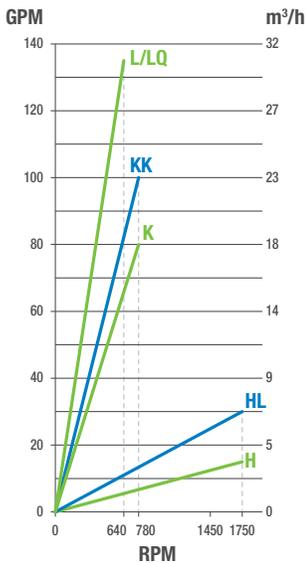
PERFORMANCE

MODELS			SPECIFICATIONS				
Jacketed			Nominal Pump Rating (100 SSU & Below)			Standard Ports	
Packed Gland	Mechanical Seal	Behind the Rotor Seal	Max Speed, RPM	GPM	m ³ /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

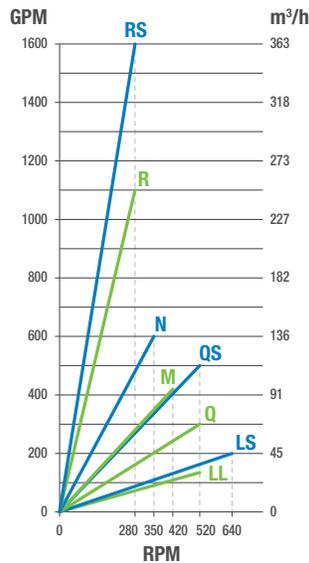
Jacketed bracket and jacketed head are standard.

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



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