



## 223A SERIES™, 4223A SERIES™, 323A SERIES™, 4323A SERIES™

STEEL EXTERNALS CONSTRUCTION | UNIVERSAL PRODUCT LINE



### FEATURES & BENEFITS

- For refinery and petrochemical applications
- Recommended for extremely high temperatures
- Widest range of sealing options available
- Integral jacket chambers in the bracket and head surround the seal and pump internals for rapid & efficient heating, or to maintain a constant temperature using steam, hot oil or water

Seal chamber accepts packing and a variety of component and cartridge style mechanical and lip seals, in both single and double mechanical seal configurations

Double row ball or tapered roller bearings for axial thrust control

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

**H223A**  
Shown with Packing

Large diameter threaded bearing housing allows easy removal of cartridge seals

Jacketing for steam, hot oil or water circulation

(Shown with standard jacketed head. Available with optional relief valve)

Rotor

Idler

Multiple port sizes, types, and ratings are available (Class 150, Class 300)

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)



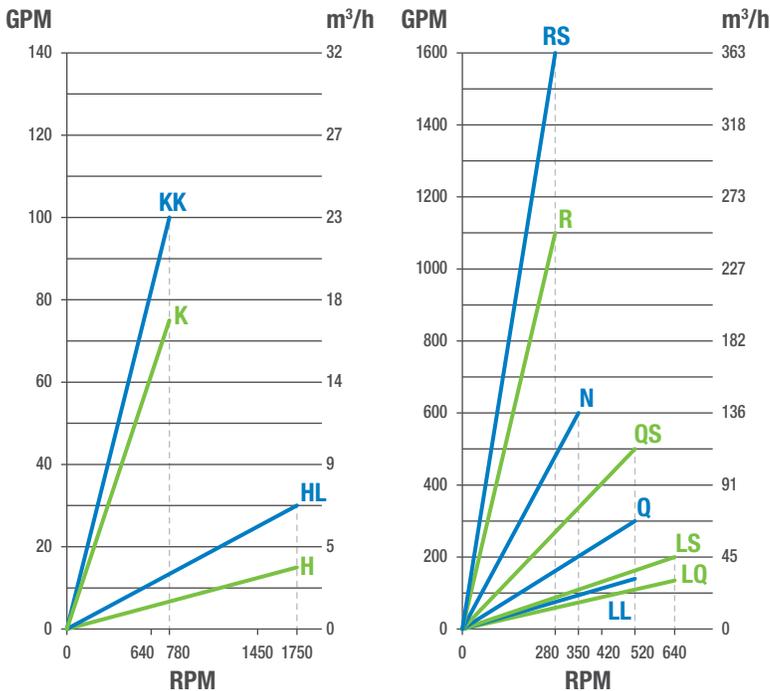
**TEMPERATURE**  
-20°F to +800°F  
(-30°C to +430°C)

## PERFORMANCE

MODELS		SPECIFICATIONS				
Non-Jacketed*		Performance			Standard Ports	
Packing	Mechanical Seal	Max Speed, RPM	GPM	m <sup>3</sup> /h	Size, Inches	Type
H223A	H4223A	1750	15	3.4	1.5	Flange
HL223A	HL4223A	1750	30	6.8	1.5	Flange
K223A	K4223A	780	75	17	2	Flange
KK223A	KK4223A	780	100	23	2	Flange
LQ223A	LQ4223A	640	135	31	2.5	Flange
LL223A	LL4223A	520	140	32	3	Flange
LS223A	LS4223A	640	200	45	3	Flange
Q223A	Q4223A	520	300	68	4	Flange
QS223A	QS4223A	520	500	114	6	Flange
N323A	N4323A	350	600	136	6	Flange
R323A	R4323A	280	1,100	250	8	Flange
RS323A	RS4323A	280	1,600	363	10	Flange

\*323A Series™ and 4323A Series™ include jacketed parts as standard.

## CURVES



## PORTING

- Right Angle (90°) (Rotatable Casing), H-Q
- Opposite (180°) (Rotatable Casing), QS-RS
- Flanged (ANSI)

## SEALING

- Packing
- Component Mechanical Seal
- Cartridge Mechanical Seal
- Cartridge Triple Lip Seal
- API 682 Seal (4223AX Series™, 4323AX Series™)

## MOUNTING

- Foot Mount

## OPTIONS

- Low temperature carbon steel down to -50°F (-45°C)

## DRIVES

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

## TYPICAL APPLICATIONS

- Crude Oil
- Heavy Fuel Oil
- Lube Oil
- Asphalts & Bitumens
- Rubber Solution
- Waxes

# VIKING PUMP®

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