



123A SERIES™, 4123A 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



Component Seal



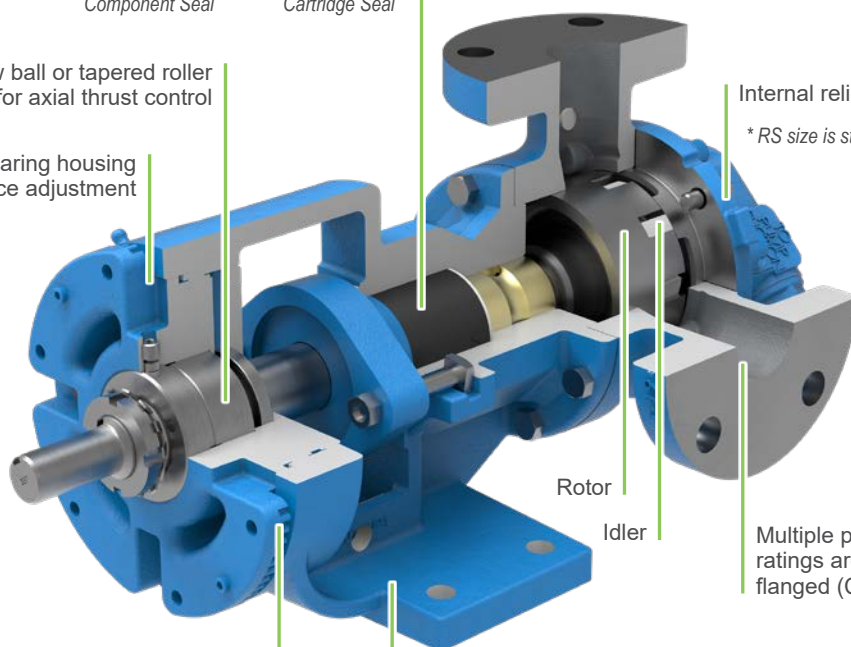
Cartridge Seal

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

Double row ball or tapered roller bearings for axial thrust control

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

H123A
Shown with Packing



Internal relief valve standard*

* RS size is standard with jacketed head, no valve.

Rotor

Idler

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

Large diameter threaded bearing housing allows easy removal of cartridge seals

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)



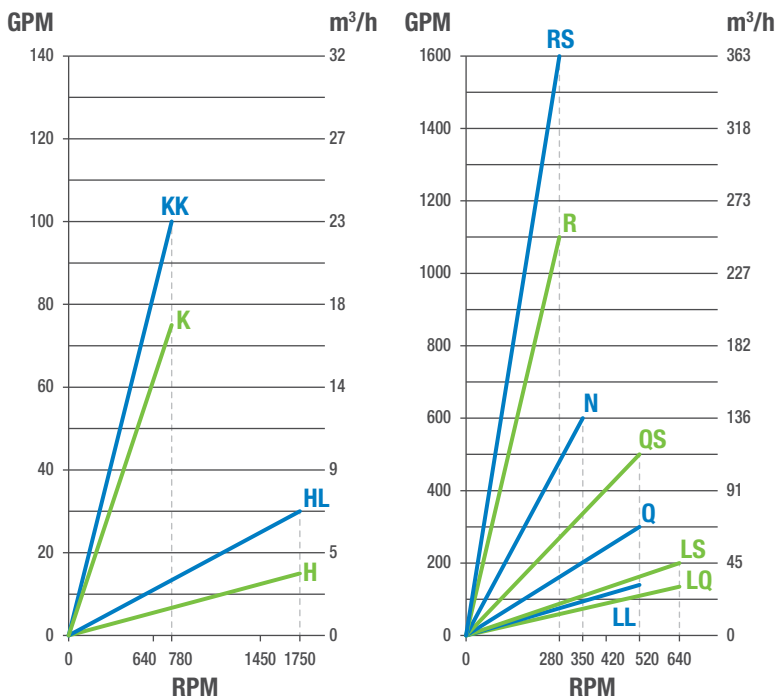
TEMPERATURE
-20°F to +800°F
(-30°C to +430°C)

PERFORMANCE

MODELS		SPECIFICATIONS				
Non-Jacketed*		Performance			Standard Ports	
Packing	Mechanical Seal	Max Speed, RPM	GPM	m ³ /h	Size, Inches	Type
H123A	H4123A	1750	15	3.4	1.5	Flange
HL123A	HL4123A	1750	30	6.8	1.5	Flange
K123A	K4123A	780	75	17	2	Flange
KK123A	KK4123A	780	100	23	2	Flange
LQ123A	LQ4123A	640	135	31	2.5	Flange
LL123A	LL4123A	520	140	32	3	Flange
LS123A	LS4123A	640	200	45	3	Flange
Q123A	Q4123A	520	300	68	4	Flange
QS123A	QS4123A	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

- Jacketing (223A, 4223A Series)
- 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



(H4123A D Drive)

TYPICAL APPLICATIONS

- Crude Oil
- Fuels
- Lube Oil
- Basic Petrochemicals
- Asphalts & Bitumens
- Heat Transfer Fluids

VIKING PUMP

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