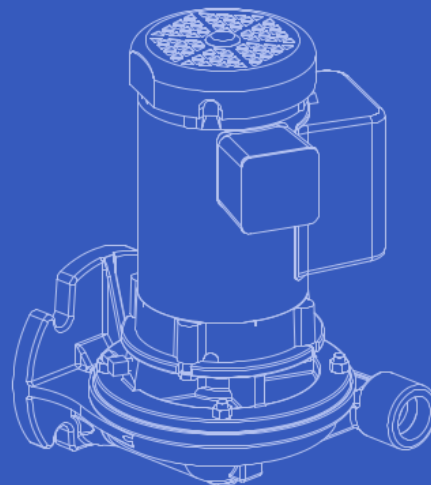
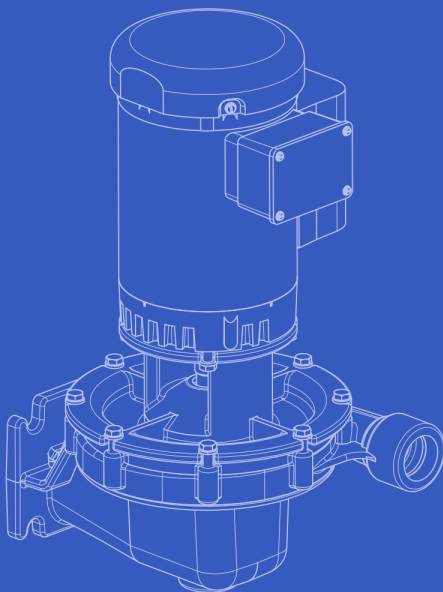
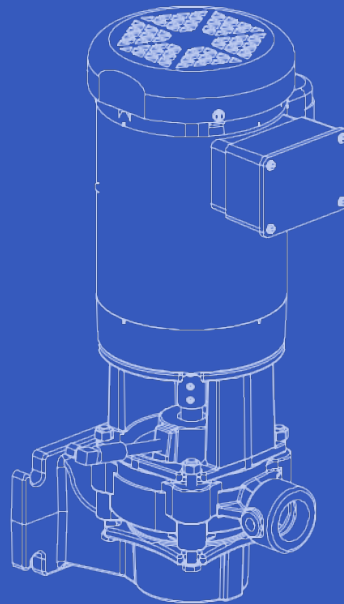
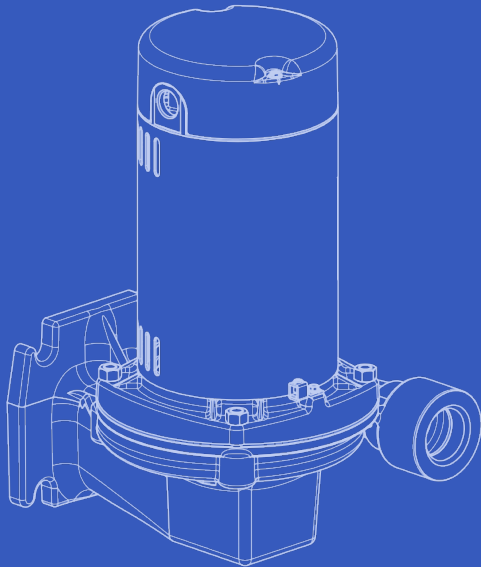


Skidmore®

A Swan Group Company



CAST IRON CENTRIFUGAL PUMPS

V-Series

The Skidmore V-Series

Skidmore offers four V-series cast iron centrifugal pump families: VC, VE, VJ, and VN. These pumps can be found in installations from condensate return units serving single pieces of equipment all the way up to complex feed systems moving hundreds of gallons of water per minute. In every case, Skidmore's hundred years of expertise in condensate handling and wide variety of pump offerings provide decades of efficient, dependable service.

Common Design Features

Vertical Flange Mounting

- Vertical mounting reduces system footprint and eases maintenance access.
- A flange-mounted pump is well-supported and requires minimal clearance to install or service, and is very compact when mounted directly to a tank.

Close-Coupled Motors

- Close coupling removes parts and increases durability and eases access for maintenance.

Cast Iron Construction

- The pump volutes (bodies) are made of close-grained cast iron, with typical service lifetimes stretching well past one or two decades.

Carbon-Ceramic Mechanical Seals

- Mechanical seals are simple to remove and replace when required and are rated for operating temperatures of 250° F.
- All V-series pumps use carbon-ceramic seals by default, with an option for Viton seals.

Bronze Impellers

- Fully enclosed bronze impellers provide efficiency and durability in all forms of condensate.

Isolated Rotating Parts

- V-series pumps are constructed with all rotating parts anchored to a seal plate that is separate from the main pump body. The rotating parts can be removed without disturbing the suction or discharge piping.

Pump Families

The V-series cast iron line contains four different families of pumps: VCS, VES, VJS, and VNS, with VCS containing both low-speed (1750 RPM) and high-speed (3450 RPM) models. The following pages contain breakdowns of the individual characteristics of each pump family.

TYPICAL MODEL NUMBER

VCS - 1 0 0 0 - 1 .00

	VCS	1	0	0	0	-	1	.00
	Pump Line	Volute Size	Speed	Unused			Impeller Type	Impeller Trim
VCS			0 = 3450 RPM					
VJS			1 = 1750 RPM					
VES								
VNS								

VC Pumps – 1750 RPM

General Information

- 1.5 to 150 GPM
- Discharge pressures of 10, 15, or 20 PSI
- 1/3 HP through 3/4 HP
- Various operating points with 2' NPSH capabilities
- Maximum liquid working temperature of 212°F

Motor Options

- ODP - Standard
- TEFC
- Wash Down Duty / IP55
- Explosion Proof

Motor Voltages

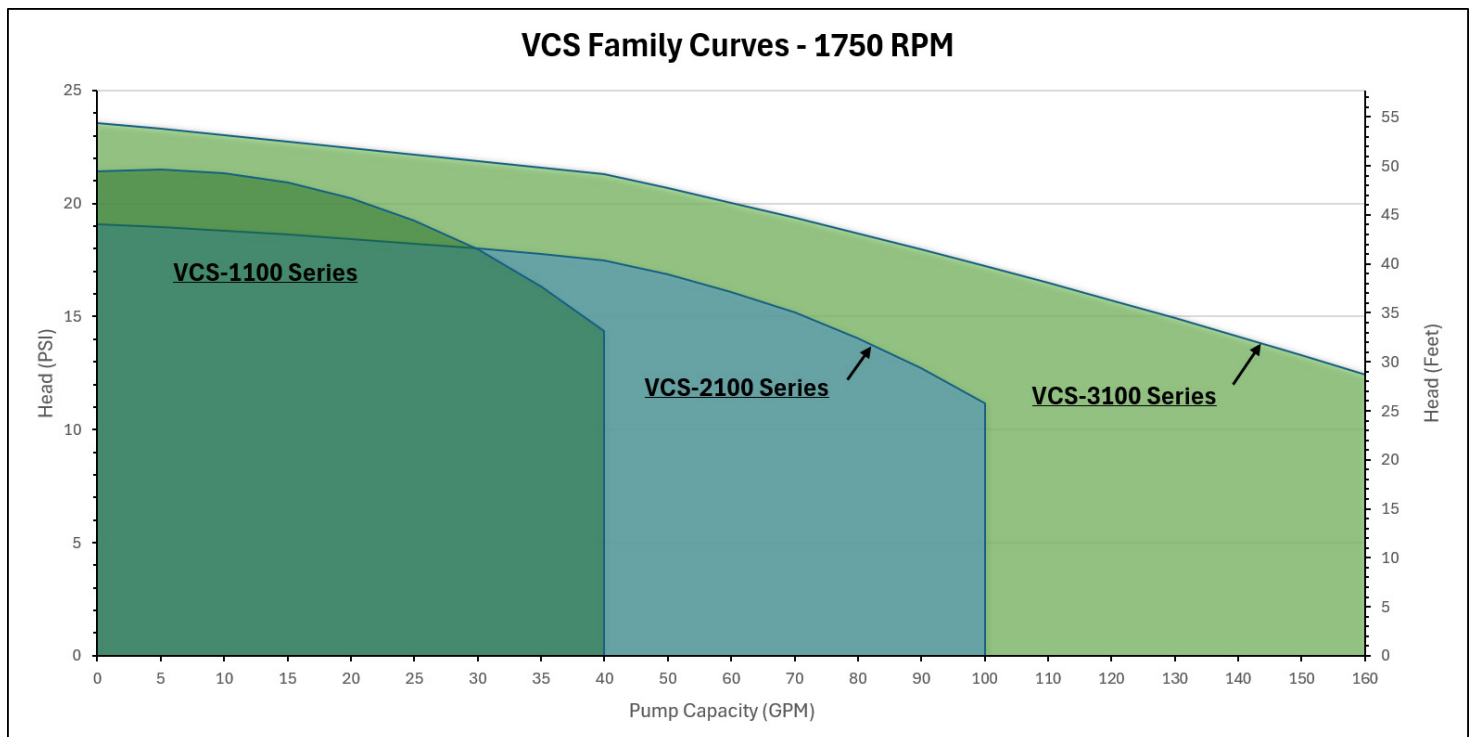
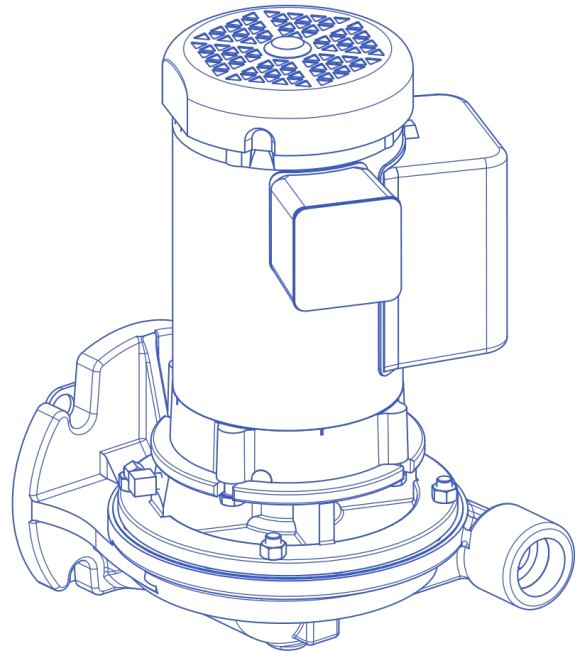
- Single Phase: 115/230 V, 60 Hz
- Three Phase: 208 or 230/460 V, 60 Hz
- 575 V available upon request

Discharge Sizes (NPT)

- VCS-1100 → 1-1/4"
- VCS-2100 → 1-1/2"
- VCS-3100 → 2"

Materials Of Construction

- Brass Impeller
- Cast Iron Volute
- Cast Iron Seal Plate
- Carbon / Ceramic Mechanical Seal



VC Pumps – 3500 RPM

General Information

- 1.5 to 150 GPM
- Discharge pressures from 30 to 75 PSI
- 3/4 HP through 10 HP
- Various operating points with 2' NPSH capabilities
- Maximum liquid working temperature of 212°F

Motor Options

- ODP - Standard
- TEFC
- Wash Down Duty / IP55
- Explosion Proof

Motor Voltages

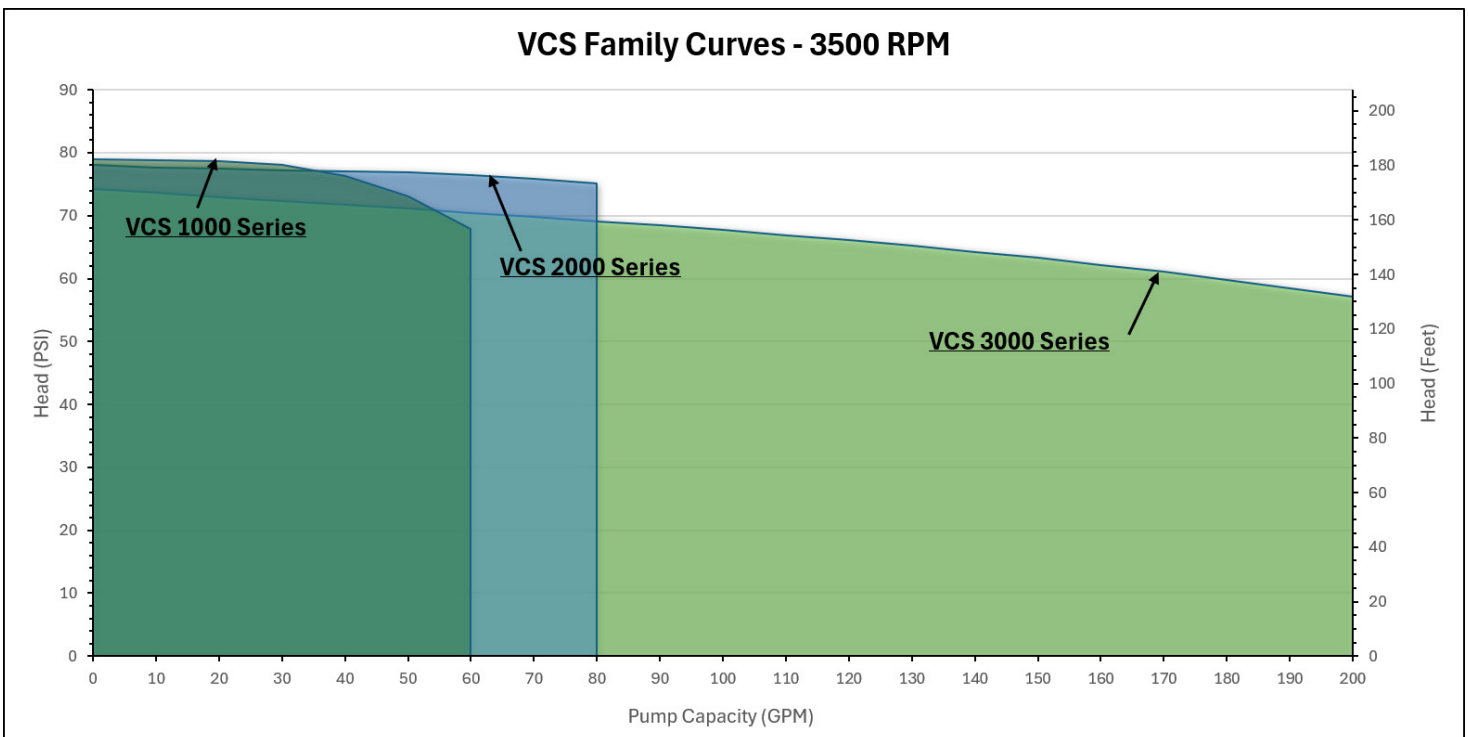
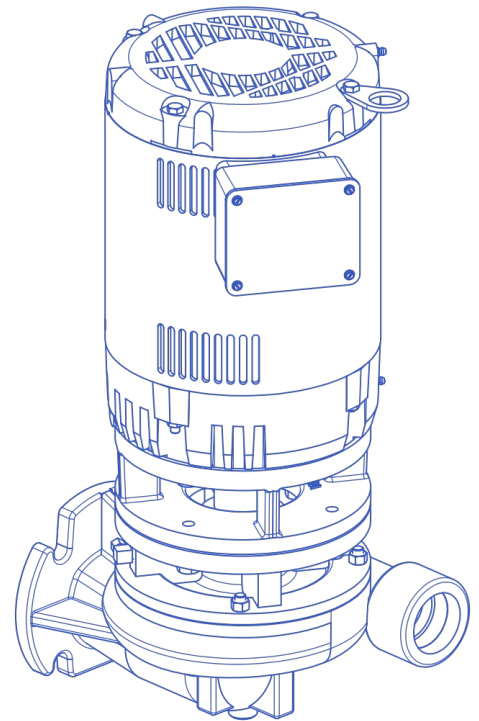
- Single Phase: 115/230 V, 60 Hz
- Three Phase: 208 or 230/460 V, 60 Hz
- 75 V available upon request

Discharge Sizes (NPT)

- VCS-1000 → 1-1/4"
- VCS-2000 → 1-1/2"
- VCS-3000 → 2"

Materials Of Construction

- Brass Impeller
- Cast Iron Volute
- Cast Iron Seal Plate
- Carbon / Ceramic Mechanical Seal



VE Pumps

General Information

- 1750 RPM only
- 9 to 75 GPM
- Discharge pressures from 10 to 30 PSI
- 1/2 HP through 2 HP
- All standard operating points require less than 2' NPSH
- Maximum liquid working temperature of 212°F

Motor Options

- ODP - Standard
- TEFC
- Wash Down Duty / IP55
- Explosion Proof

Discharge Sizes (NPT)

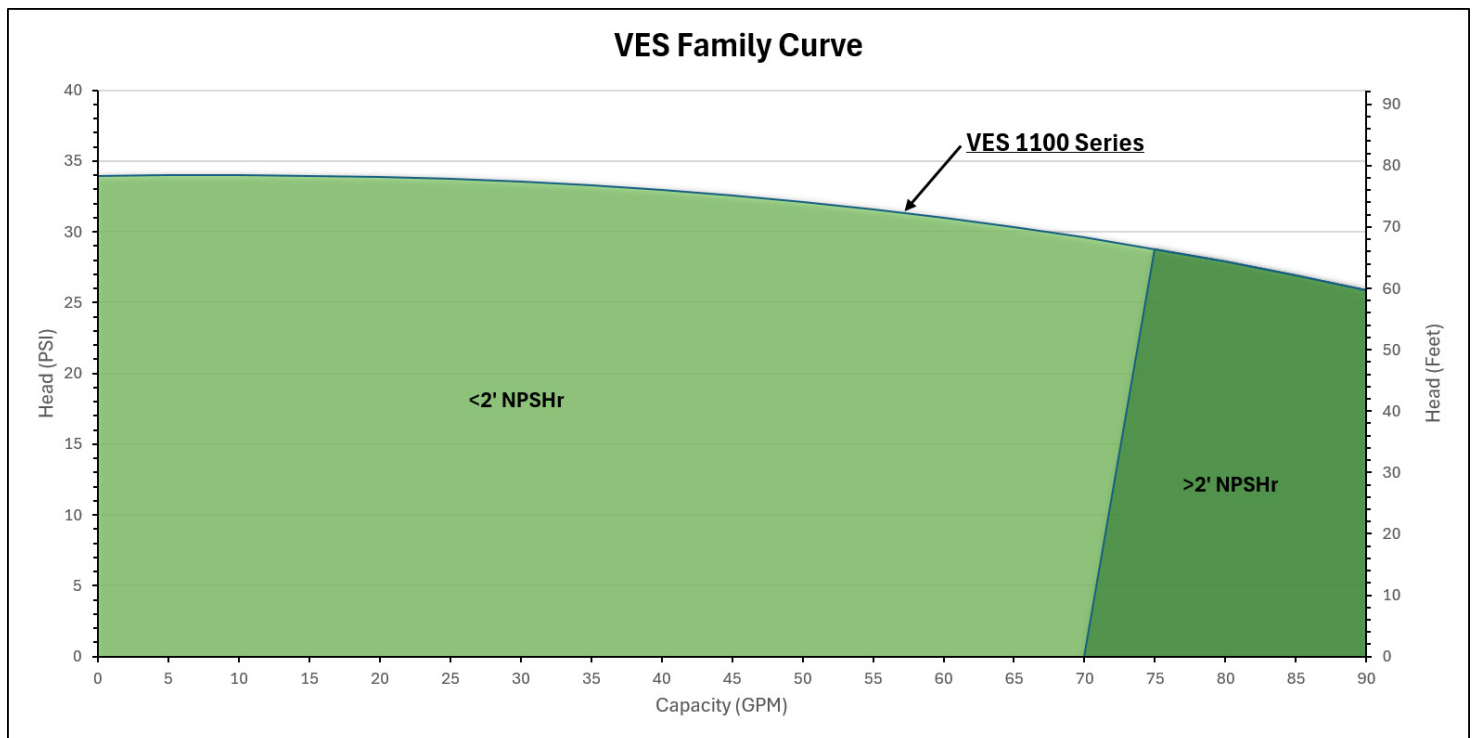
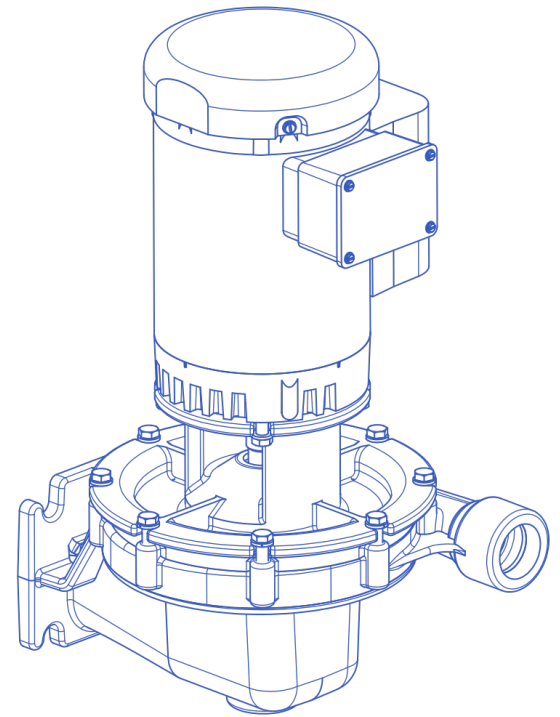
- VES-1100 → 1-1/2"

Materials Of Construction

- Brass Impeller
- Cast Iron Volute
- Cast Iron Seal Plate
- Carbon / Ceramic Mechanical Seal

Motor Voltages

- Single Phase: 115/230 V, 60 Hz
- Three Phase: 208 or 230/460 V, 60 Hz
- 575 V available upon request



VJ Pumps

General Information

- 3500 RPM only
- 1.5 to 97.5 GPM
- Discharge pressures from 10 to 50 PSI
- 1/2 HP through 2 HP
- Maximum liquid working temperature of 212°F

Motor Options

- ODP - Standard
- TEFC
- Wash Down Duty / IP55
- Explosion Proof

Motor Voltages

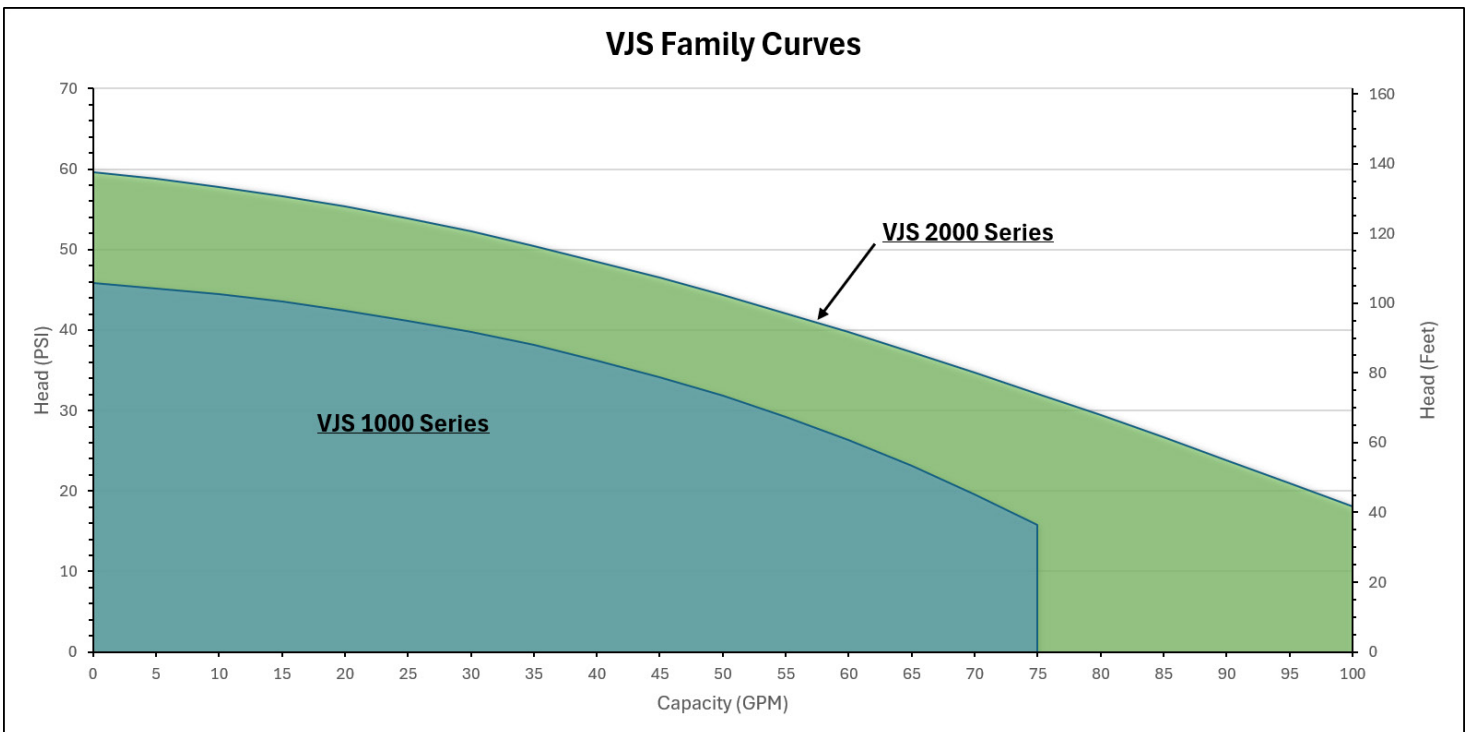
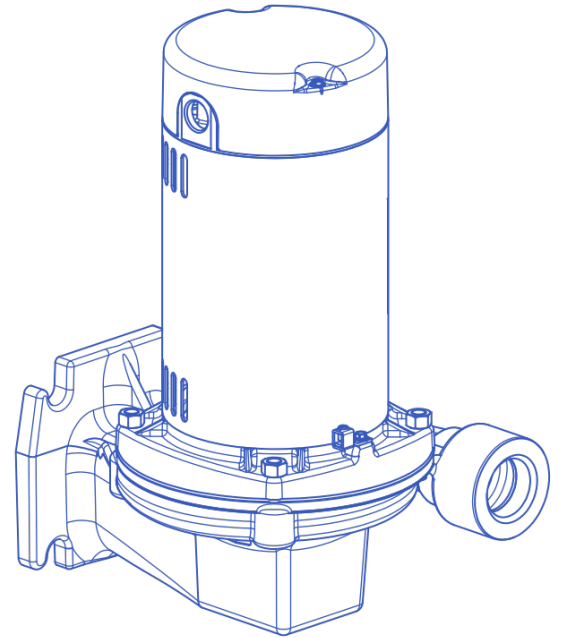
- Single Phase: 115/230 V, 60 Hz
- Three Phase: 208 or 230/460 V, 60 Hz
- 575 V available upon request

Discharge Sizes (NPT)

- VJS-1000 → 1-1/4"
- VJS-2000 → 1-1/2"

Materials Of Construction

- Brass Impeller
- Cast Iron Volute
- Cast Iron Seal Plate
- Carbon / Ceramic Mechanical Seal



VN Pumps

General Information

- 3500 RPM only
- 9 to 90 GPM
- Discharge pressures from 20 to 60 PSI
- ½ HP through 7.5 HP
- All models require less than 2' NPSH
- Maximum liquid working temperature of 212°F

Motor Options

- TEFC- Standard
- Wash Down Duty / IP55
- Explosion Proof

Motor Voltages

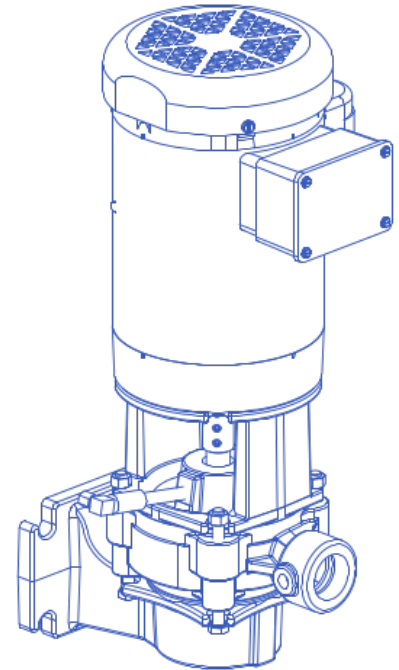
- Single Phase: 115/230 V, 60 Hz
- Three Phase: 208 or 230/460 V, 60 Hz
- 575 V available upon request

Discharge Sizes (NPT)

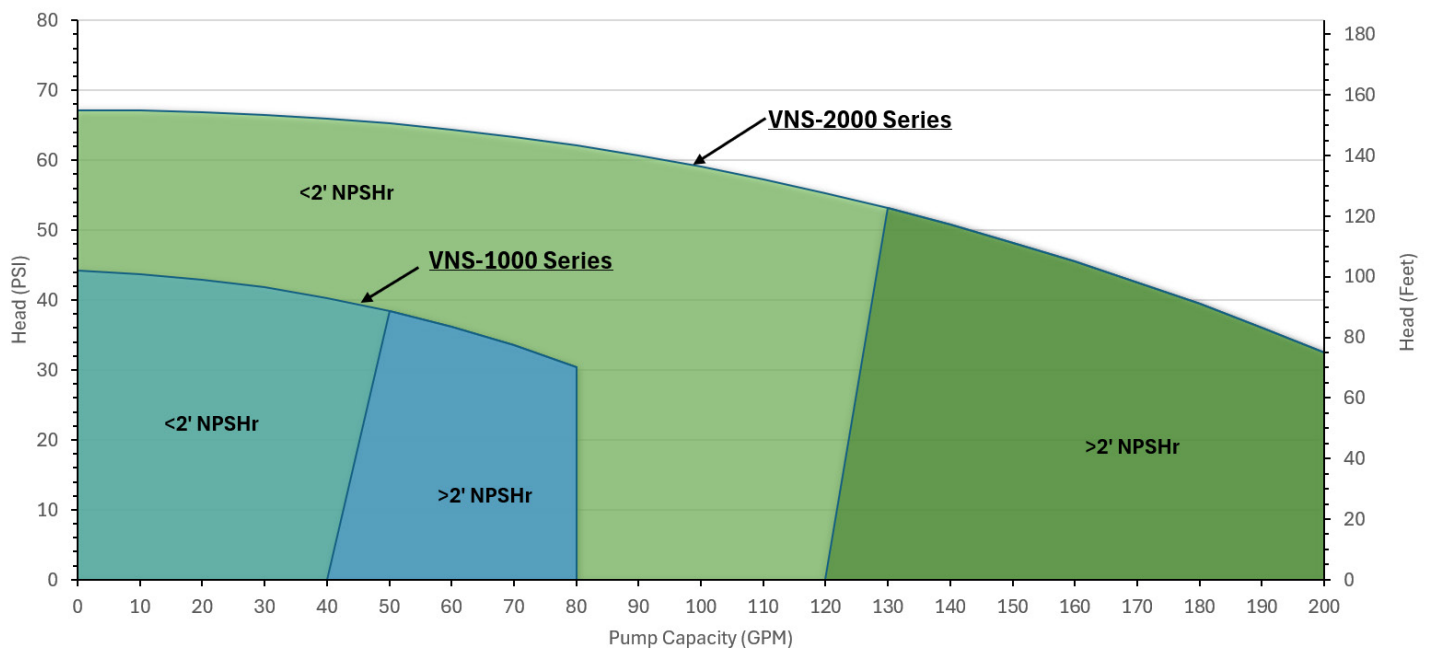
- VJS-1000 → 1-1/4"
- VJS-2000 → 1-1/2"

Materials Of Construction

- Brass Impeller
- Cast Iron Volute
- Cast Iron Seal Plate
- Carbon / Ceramic Mechanical Seal



VNS Family Curves



Skidmore has been building the highest-quality condensate return pumps, boiler feed systems, vacuum systems, and accessories since 1921. From custom designs to compact solutions—our skilled representatives are armed with the knowledge and expertise to assist you in the selection, design, installation and service of your pump system. They are backed by a highly skilled team of application specialists who will provide solutions to custom engineering questions or special building capabilities and are committed to developing the most energy efficient pump to fulfill your needs. Every pump that leaves our factory has been carefully crafted and tested against the strictest standards, ensuring you receive the highest-quality product possible.

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MANUFACTURING AND DESIGN OF QUALITY HVAC SYSTEMS SINCE 1921