



Industrial Pumps S.A

The products that last a lifetime

We have experience with thousands of liquids that allow us to deliver proven solutions for your application, whether it is thin/thick, hot/cold, edible/toxic, liquid/solid and so much more

COMPANY PORTFOLIO



ABOUT US



Industrial Pumps SA is a company that specializes in the selling, distributing, servicing, repairing and installation of all types of pumps.

Channel support group of application, sales and design engineers develops unique pumping solutions for both OEM manufacturers and pump end users with unique requirements

Each pump is uniquely designed for the task at hand, from simple solutions to your most advanced and demanding needs.

Offering one of the broadest selections of pumping principles, designs, materials and options available, Our pumps are time and field tested to meet or exceed your expectations.

WHAT WE DO

**INDUSTRY &
APPLICATION
SUPPORT**

**SOLUTIONS
PROVIDER**

**RELIABILITY,
QUALITY &
PERFORMANCE**

OUR SELECTION INTERNAL GEAR PUMP - VV95

FLOW RANGE
To 115 GPM
(26 m³/h)

PRESSURE
to 250 PSI
(17 BAR)

TEMPERATURE
-40°F to +350°F
(-40°C to 180°C)

Viscosity
28 to 25,000 SSU
(1 to 5,500 cSt)



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Bearings are lubricated and sealed, meaning no maintenance time spent lubricating.

Casing encompasses the majority of the pump's components. This ensures proper alignment for rotating parts.

Gauge Ports are pre-tapped to accommodate suction and discharge gauges.

Ports are threaded NPT.

Bushings are carbon graphite.

Mechanical Seal is located behind the rotor, isolating the bearings from the fluid.

Internal Safety Pressure Valve is standard on all pumps. Pressure setting is calibrated at the factory. Adjustment bolt must always point towards the suction side of the pump. It is not recommended to adjust the pressure setting.

End Clearance is externally set by rotating the bearing housing.

O-Rings are utilized for maximum sealing, especially useful for thinner fluids.

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DID YOU KNOW?

**GEAR PUMPS
ARE USED IN THE
WORLD'S
LARGEST
CHOCOLATE
FOUNTAIN.**



VV95 - Internal Gear Pumps

FEATURES & BENEFITS

The most compact gear pump to fit the tightest space constraints.

High speed operation for the most economical pump option for thin to moderate viscosity applications

Vertical mounting can be done to help save space

FEATURES & BENEFITS

Internal gear pumps offer a wide range of benefits. Although, they are not meant to handle solids, they are a good option for **abrasive applications**.



The VV95 Pump is designed for **higher operating speeds**, which eliminates the gear drives or VFD (variable frequency drive). This means lower costs and less maintenance.

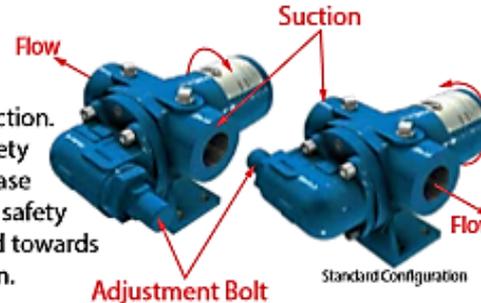
The VV95HL and VV95HJ, VV95AK and VV95AS, respectively, have the capability to swap internal parts to **adjust maximum flow rates**. This feature allows for **maximum adaptability** without the cost of a new pump.

The VV95 Pump is equipped to handle **lower viscosity fluids**, by utilizing O-rings for sealing and the ability to handle **higher operating speeds**.

180 degree porting allows for simple installation and reduction with line losses. VV95 Pumps utilize lubricated sealed bearings, which are designed and positioned to handle **pressures to 250 PSI**.

CONFIGURABILITY

VV95 has the ability to operate in either direction. Consideration must be given to the internal safety relief valve or the system's pressure release mechanism. When equipped with an internal safety relief valve, the **adjustment bolt** must be pointed towards the **suction** side of the pump for proper operation.



Model VV95GG Shown

PERFORMANCE DATA

Standard Material - Cast Iron Pumps							
Size		VV95GG	VV95HJ	VV95HL	VV95AS	VV95AK	VV95AL
GPM	Nominal: 100 SSU & 25 PSI	10	20	30	55	85	115
RPM		1750	1750	1750	1750	1750	1750
Differential Max PSI		250	250	250	250	250	250
Port Sizes (NPT)		1 in	1.5 in	1.5 in	2.5 in	2.5 in	3 in
Appx. Shipping Weight		20	44	44	85	85	86

Contact your local Summit Pump Distributor for further performance data

TYPICAL APPLICATIONS

Refined Fuels

Lube Oils

Rotating Equipment

Lubrication

Glycols

Pipeline Sampling

Isocyanates

Compressor Lubrication

Additives

INTERNAL GEAR PUMP - VV40

FLOW RANGE
To 470 GPM
(106 m³/h)

PRESSURE
to 200 PSI
(14 BAR)

TEMPERATURE
-40°F to +350°F
(-40°C to 180°C)

Viscosity
28 to 2,000,000 SSU
(1 to 440,000 cSt)



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Bracket is one unit. This puts the pump packing or seal between the thrust bearing and bracket bushing, keeping movement to a minimum for longer seal life.

Multiple **Configuration** options conform to your system design with a simple change to casing orientation and/or shaft rotation.

Bearing Housing assembly is designed for ease of maintenance without lengthy downtime.

Stuffing Box is designed to easily accept alternate sealing methods.

Ports are either NPT or flange type.

Bearing is a double row ball bearing to handle thrust loads. (VV40Q and VV40QS sizes have two taper roller bearings.)

End Clearance is externally set by rotating the bearing housing.

Bushings are either bronze or carbon graphite and reduce moving parts and maintenance.

Standard Gland will accommodate packing or a component seal.

Internal Pressure Relief Valve is standard on all pumps. Pressure setting is calibrated at the factory.

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An important feature is that they are designed to accommodate virtually all types of seals.

This can be packing, component or cartridge mechanical seals which can be easily fitted, usually without bracket modifications



FEATURES & BENEFITS

Rugged and reliable, yet economical

Widest range of sizes and options available to suit almost any non-corrosive application

Tightest clearances for high efficiency and excellent priming capability

VV40 - Internal Gear Pumps

FEATURES & BENEFITS



Internal gear pumps offer a wide range of benefits. Although, they do not handle solids, they are a good option for abrasive applications.

Shear sensitive fluids can be pumped with this type of pump. Fluids are transferred in "chunks" as the gears rotate and very little pumped fluid is actually sheared. If needed, operating at slower speeds, selecting a larger pump or adjusting end clearances are ways to adapt to higher shear sensitive materials.

CONFIGURABILITY

Installation configurations are obtainable since the VV40 pumps are designed for adaptability. There are 16 possible configurations by simply choosing a casing orientation and shaft rotation (*Notice relief valve positions*).

The images to the right are four main configurations. Standard configuration is right hand orientation and clockwise rotation, unless otherwise stated on the purchase order.

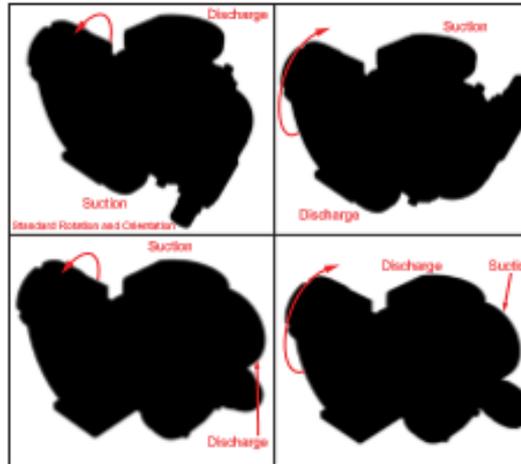
Material options are cast iron, ductile iron, steel and stainless steel. NPT or flanged ports are determined by pump size and material. Consult your local Summit Pump, Inc. Distributor for specific details.

Shaft Rotation
(As viewed from motor)

Clockwise

Counter Clockwise

Casing Orientation
Right Hand
Left Hand



PERFORMANCE DATA



		Standard Material - Cast Iron Pumps											
Size		VV40H	VV40HL	VV40AK*	VV40AL*	VV40K	VV40KK	VV40L	VV40LQ	VV40LL	VV40LS	VV40Q	VV40QS
GPM	100SSU->	15	31	70	90	77	100	140	140	140	200	300	470
RPM	Viscosity	1750	1750	1450	1450	780	780	640	640	520	640	520	520
Max Discharge PSI	<750SSU	200	200	200	200	200	200	200	200	200	200	200	200
Appx. Shipping Weight		38	40	82	85	105	110	155	175	185	190	440	540

TYPICAL APPLICATIONS

Adhesives

Asphalt & Bitumen

Paints & Inks

Polymers

Resins

Chocolate

Peanut Butter

Molasses

Refined Fuels

Edible Oils

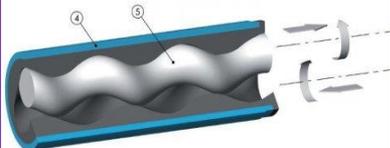
Non-Corrosive Chemicals

Additives

PROGRESSIVE CAVITY PUMPS

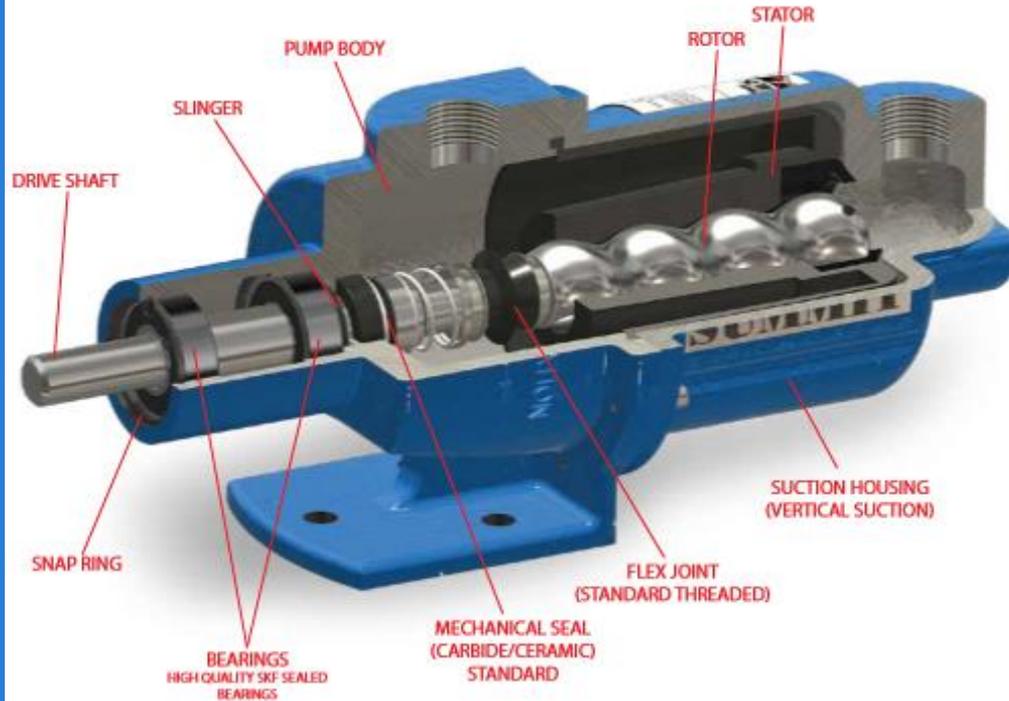
AN ADVANTAGE

Don't forget that this type of pumps can also have the ability to reverse flow. Again, there are numerous situations where this is attractive or even required.



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Frame Mounted



Applications

- Abrasives
- Waste & Water Treatment
- Oils and Lubricants
- Polymers
- Bilge Pumps
- Mobile Friendly Applications
- Chemical Slurries
- Irrigation
- Limestone Slurries
- Paint
- Sand
- Marine Applications



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DID YOU KNOW?

Progressive cavity pumps are high suction and have the ability to self prime.

This is nice because you don't have to worry about ever forgetting to prime your pump again so it will save you some time.

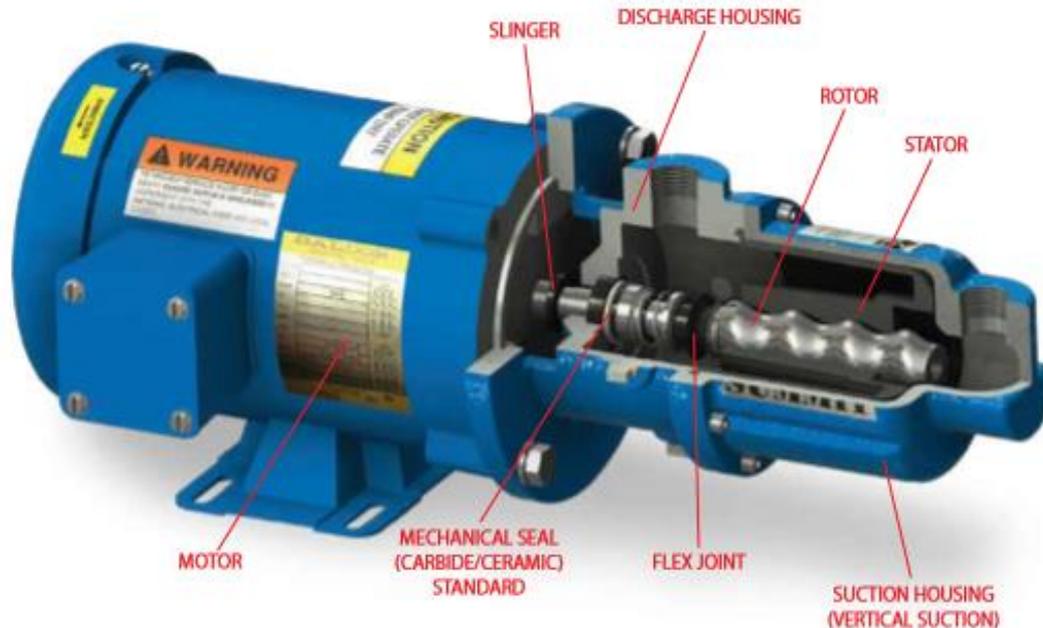
Progressive Cavity Wobble Pumps

AN ADVANTAGE

Progressive Cavity Pumps are extremely easy to maintain. Especially when using viscous fluids that also act as lubricants, these pumps offer a long reliable life with very little maintenance.

Features and Benefits

- SWP15, SWP22, SWP33, SWP44 and motorized versions have interchangeable rotors and stators with their respective sizes
- Numerous material options to precisely fit your application needs
- Pumps are simple and compact, perfect for mobile units or restrictive areas
- Capable of pumping viscous liquids
- Able to handle fluids with high solid content
- Self-Priming
- Suction lifts to 25 feet
- Continuous non-pulsing flow
- Smooth & quiet operation provides
- Motorized or non-motorized
- Metal rotor revolves inside a rubber stator generating the progressive pumping principle



AN ADVANTAGE

The pumps has excellent self-priming features, even with dry substance content up to 45%.

Close-Coupled [Activate Windows](#)
Go to Settings to activate Windows.



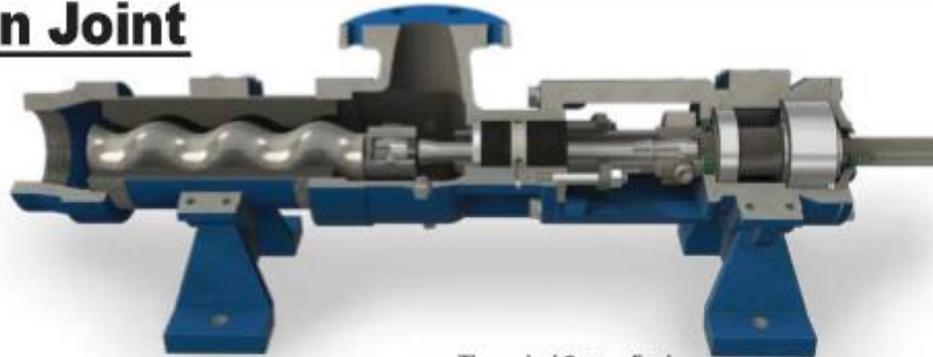
AN ADVANTAGE

The areas of contact between the rotor and stator creates seal lines which separate the cavities.

The positive separation of the cavities makes progressing cavity pumps a unique type of positive displacement pump with predictable, pulsation-free flow rates

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Pin Joint



Features and Benefits

- Open pin joint design for cost effective maintenance
- Non-pulsating accurate metered flow control
- Outstanding handling abrasive materials
- Solids up to 1" in diameter
- Low vibration resulting in quiet operation
- High volumetric and mechanical efficiencies
- Threaded Stator Ends
- Temperatures up to 350°F/175°C
- Smooth continuous flow with a wide range of NPSH
- Suction lift up to 28 feet
- No pistons, valves or timing gears to wear or clog up
- Self-priming prevents air or vapor lock

Options

- Variety of drives and mounting configurations
- Mechanical seals or packing
- Open and closed loop systems
- Variable speed control
- Tachometers, Gauges and other accessories

Applications

- Mortar
- Grout
- Asphalt
- Coating
- Lubricants
- Drilling muds
- Coal/water
- Coal/oil slurries
- Burner feed
- Oil/Water separations
- Mastics
- High pressure water
- Polymer transfer
- Lime slurries
- Sampling
- Chemical feed
- Paper
- Starch
- Clays
- Pastes and Gels
- Paint
- Soaps and detergents
- Crude Oil
- Polymers



Cross Section of Pin Joint in the Rotor Head

AN ADVANTAGE

The flowrate is directly proportional to the operating speed of the pump. This means that the flowrate can be easily adjusted by changing the speed of the pump.



AN ADVANTAGE

This pumps can handle both fragile and viscous fluids, since the pump applies low levels of shearing to the material, the more shear sensitive ones will not be negatively influence.



Progressive Cavity Pumps

Sealed Gear Joint

Features and Benefits

- Sealed gear universal joint handles the thrust and radial loads in the toughest applications
- Low overall cost of ownership
- Available in six frame sizes: E, F, G, H, J & K
- Open inlet set-ups in 1, 1.5 and 2 meter lengths to match common feed spaces from centrifuges
- Exceptional abrasion resistance
- Close coupled and flange models
- Sealed gear joint allows for pumping adhesives
- Snap Ring Connection on Stator Ends

Options

- Flush gland to prevent damage to seals and packing
- Deflectors to stop binding around rotor head and connecting rod
- Available shaft sleeves to prevent wear
- Large selection of drive options, mechanical seals and couplings

Applications

- Municipal sludge
- Lime slurry dosing
- Filter press and incinerator feed
- Raw sewage transfer
- Adhesives
- Coatings latex
- Starch
- Crude oil transfer
- Treater battery system
- Oil/water separator
- Grape must
- Ground meat emulsions
- Sauces and juices
- By-product and wastes
- Caustics
- Detergents
- Paint
- Solvents
- Gypsum
- Plaster
- Resins
- Clay slurries
- De-icing fluids
- Hazardous waste
- Industrial sledges



Cross Section of Sealed Gear Joint in the Rotor Head



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DID YOU KNOW?

A Progressive cavity pump is a type of positive displacement pump. It transfers fluid by means of the progress, through the pump, of a sequence of small, fixed shape, discrete cavities, as its rotor is turned.

SUMMIT™

SN

SN



**Self-Priming
Non-Clogging**



Cover Plate/Inspection Port:

The cover plate is designed to make cleaning and/or inspecting the pump quick and simple, without disconnecting any piping.

Impeller:

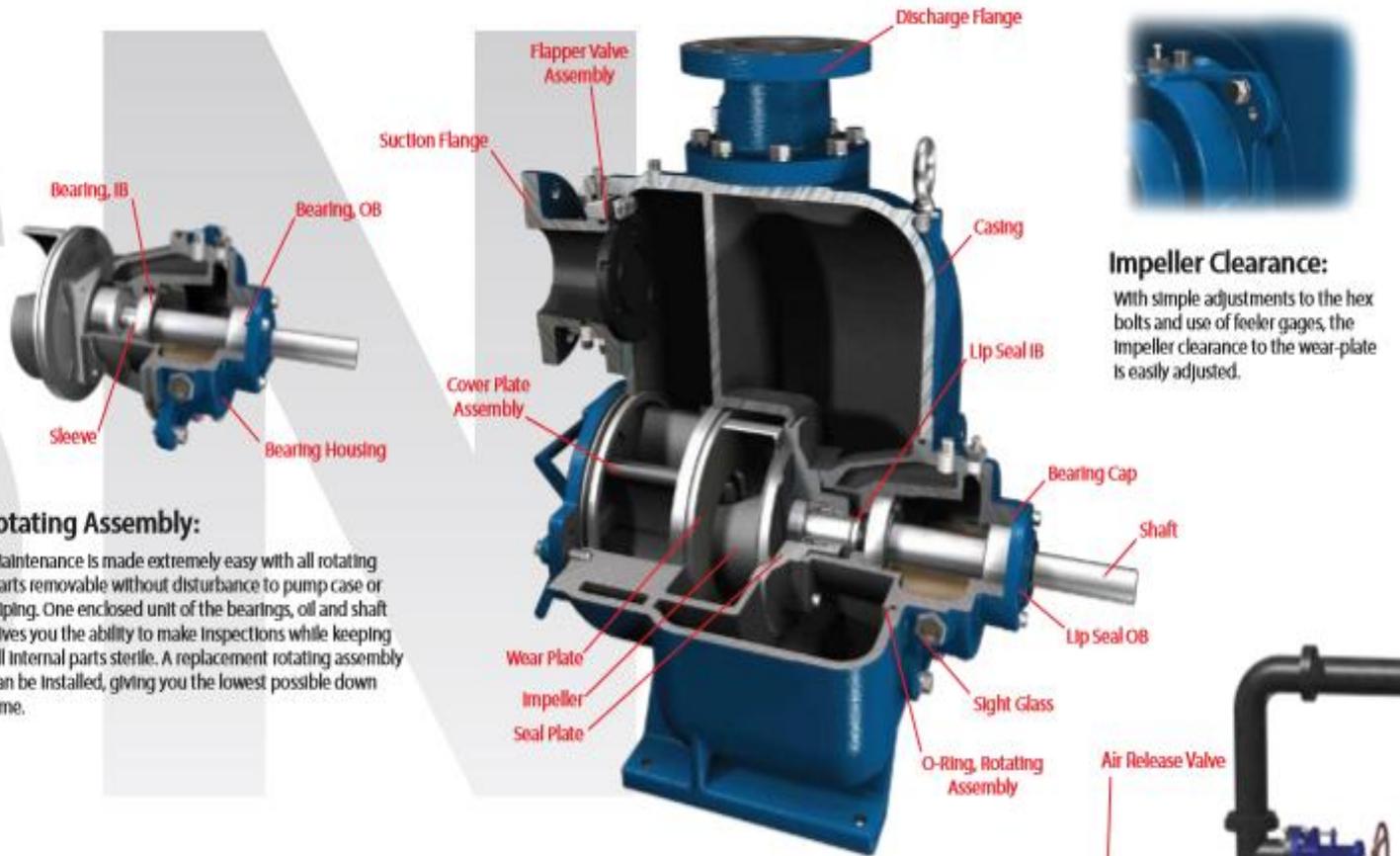
Semi-open, two vane non-clog type impeller handles as large as 3" solids. The presence of shrouds on the backside of the impeller reduce material build-up and reduce pressure on seal and bearings, resulting with longer time between maintenance.

Rotating Assembly:

Maintenance is made extremely easy with all rotating parts removable without disturbance to pump case or piping. One enclosed unit of the bearings, oil and shaft gives you the ability to make inspections while keeping all internal parts sterile. A replacement rotating assembly can be installed, giving you the lowest possible down time.

Impeller Clearance:

With simple adjustments to the hex bolts and use of feeler gages, the impeller clearance to the wear-plate is easily adjusted.



Additional Features

These self-priming centrifugal pumps are designed for economical use with solid handling, slurries and mild corrosives utilizing Stainless or CD4 materials. Available in 6 different sizes: 2", 3", 4", 6", 8" and 10". The casing is specifically engineered for a large volume of liquid retention giving, SN pumps superior priming and re-priming dependability.

Priming is done automatically after the initial prime, with no need for suction or discharge check valves. The ability to overcome air in the pump is no obstacle compared to other centrifugal pumps. With the addition of an air release valve the chances of a priming failure is remote.



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PROCESS PUMP MODEL 2175

SUMMIT™ PUMP, Inc

SUMMIT™

2175

Applications

Pulp & Paper:

Cleaners
Filtrate
Liquor
Screen Rejects
Low NPSH Digester

Steel:

Cooling Water
Descaling
Slurries
Tailings

Food:

Beet & Cane Sugar
Cane Juices
Fruit Pulp
Wet Corn Milling
Brewing

General:

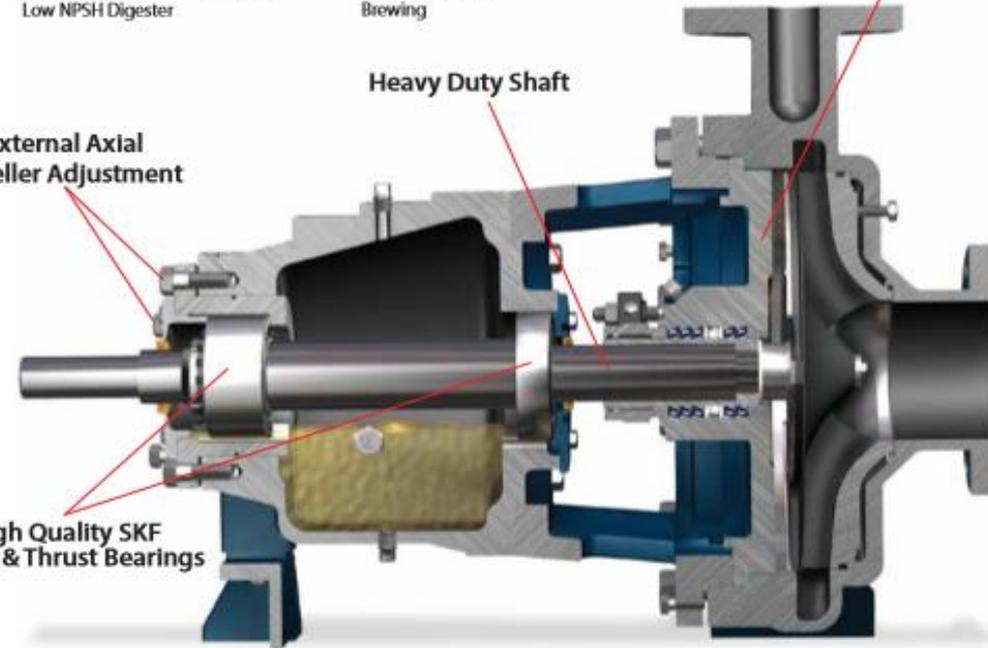
Mine Water
Waste Treatment
Textile Slurries

Open/Non-Clogging
Impeller

Heavy Duty Shaft

External Axial
Impeller Adjustment

High Quality SKF
Radial & Thrust Bearings



Features

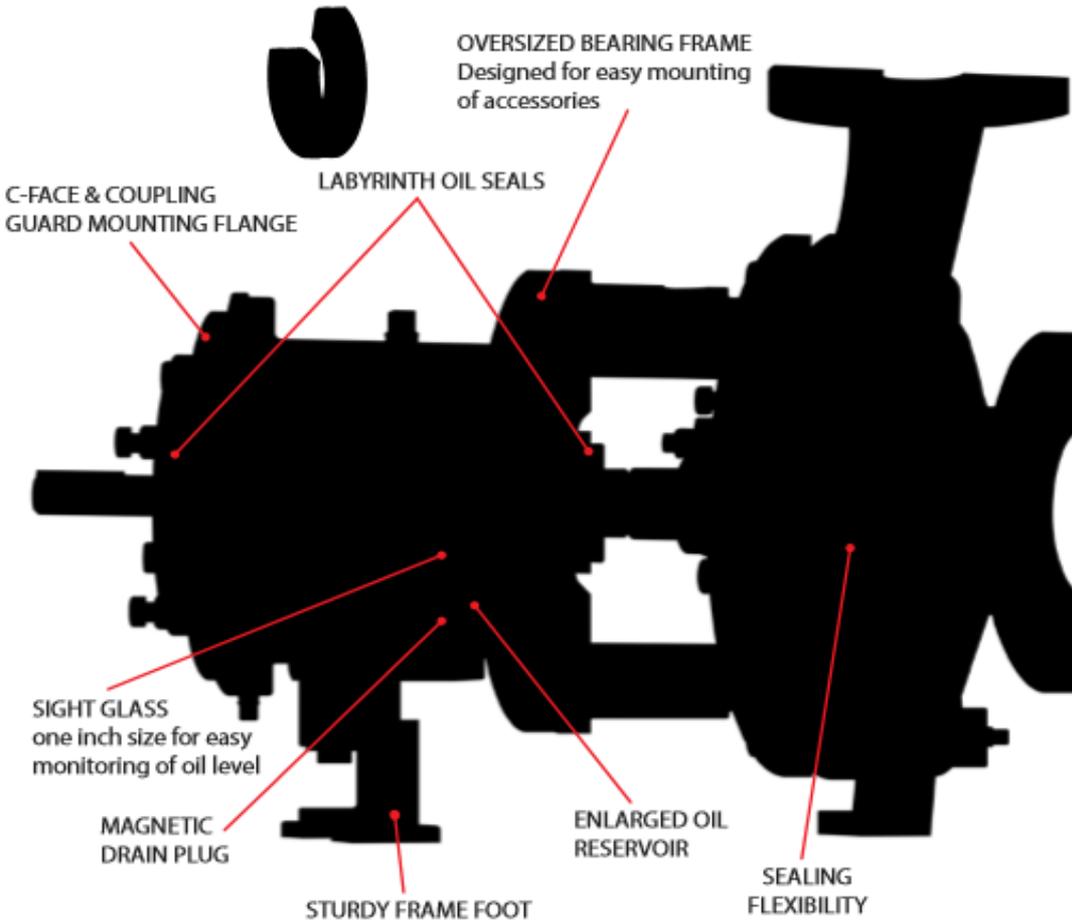
Rear Pull-out Design
Interchangeability of Parts
Sacrificial Wear Items
Double Volute for Larger Sized Pumps
Fully Open Impeller



PROCESS PUMP MODEL 2196 ANSI

SUMMIT™ PUMP, Inc

SUMMIT™ **2196 ANSI**



OPTIONAL: FINNED-TUBE OIL COOLER Can be installed in field



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PROCESS PUMP MODEL 2196 LF/R ANSI

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SUMMIT™

**2196 LF
ANSI**

Applications

Additive Chemicals
Batch/Continuous Chemical Reactors
Chemical Dryers
Chemical Process
Condensate Service

Evaporators
Petro Chemical Service
Prototype Processes
Shower Service
Seal Water

Open/Non-Clogging
Radial Vane Impeller
with Balance Holes

External Axial
Impeller Adjustment

High Quality SKF
Radial and Thrust Bearings

Magnetic Drain Plug

Heavy Duty Shaft

2196 LF



Benefits

Reduced shaft vibration
Low NPSHr
Low seal chamber pressure
Extended MTBF on pump and
mechanical seals

Designed Specifically for Trouble-Free
Operation at Low Flows



Features

Radial vane impeller with
balance holes
Interchangeability with
existing ANSI pumps
Circular non-expanding case

2196R



SELF PRIMING PROCESS PUMP MODEL 2796

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SUMMIT™

2796

Applications

Chemical Transfer
Industrial Sump
Mine Dewatering

Bilge Water Removal
Filter Systems

Open/Non-Clogging
Radial Vane Impeller
with Balance Holes

Heavy Duty Shaft

External Axial
Impeller Adjustment

High Quality SKF
Radial and Thrust Bearings

Magnetic Drain Plug

2796



Features

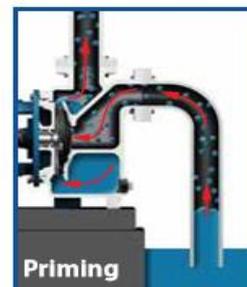
Rear pull-out
External axial impeller adjustment
Orion/Seal bearing isolators standard
Open non-clogging impeller

Parts interchangeable with SUMMIT 2196 ANSI

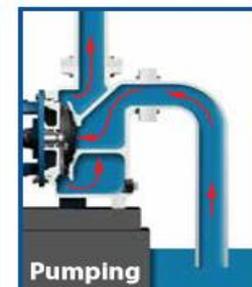


Reliable Self-Priming Operation

Dual volute design primes suction with only an initial charge of liquid in the casing.



Priming



Pumping

Priming Cycle: The lower volute provides intake as upper volute discharges liquid and entrained air into separation chamber. Air separates from liquid and is expelled through pump discharge while liquid is recirculated into lower volute.



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CLOSED COUPLED & FRAME MOUNTED PUMP MODEL CC & FM

SUMMIT™ PUMP, Inc

Close Coupled & Frame Mounted

Features

SUMMIT™ CC & FM pumps are horizontal, end suction, centrifugal pump designed for general service such as water, solvents, light oils, non-corrosive chemicals, coolants and brines. Available in capacities to 2300 GPM heads to 200 feet, these pumps are an economical and dependable solution for your pumping needs. All flanges are 125lb ANSI B16.1 rating; NPT connections are standard on 6" and 8" sizes. A renewable bronze shaft sleeve is standard on cast iron pumps and a 316ss shaft sleeve is standard on alloy pumps.

Close Coupled Pump - Model CC

The close coupled pump is directly mounted to a NEMA "C" face motor, and designed to use minimal space. Motors with TEFC frames use a standard mechanical seal (JM frame), or packing (JP frame). ODP motors and stainless steel shafts are optional.

Frame Mounted Pump - Model FM

Frame mounted pumps are constructed with a rigid bearing frame, flexibly coupled and mounted on a fabricated steel base with optional drip pan. The casing, adaptors, and bearing frames share mating registers for maximum interchangeability. Coupling guards meet ASME B 15.1

Interchangeable Parts

Component parts of similar sizes are interchangeable with the Frame Mounted and Close Coupled Pumps. This means less spare parts inventory and fast delivery of required parts.

316ss Wet End Option

316ss wet ends are available for corrosive application. All wetted surfaces are constructed of 316ss including: Casing, Impeller, Adaptor, Sleeve, Washer, Impeller Screw and Key.



Mechanical Seals

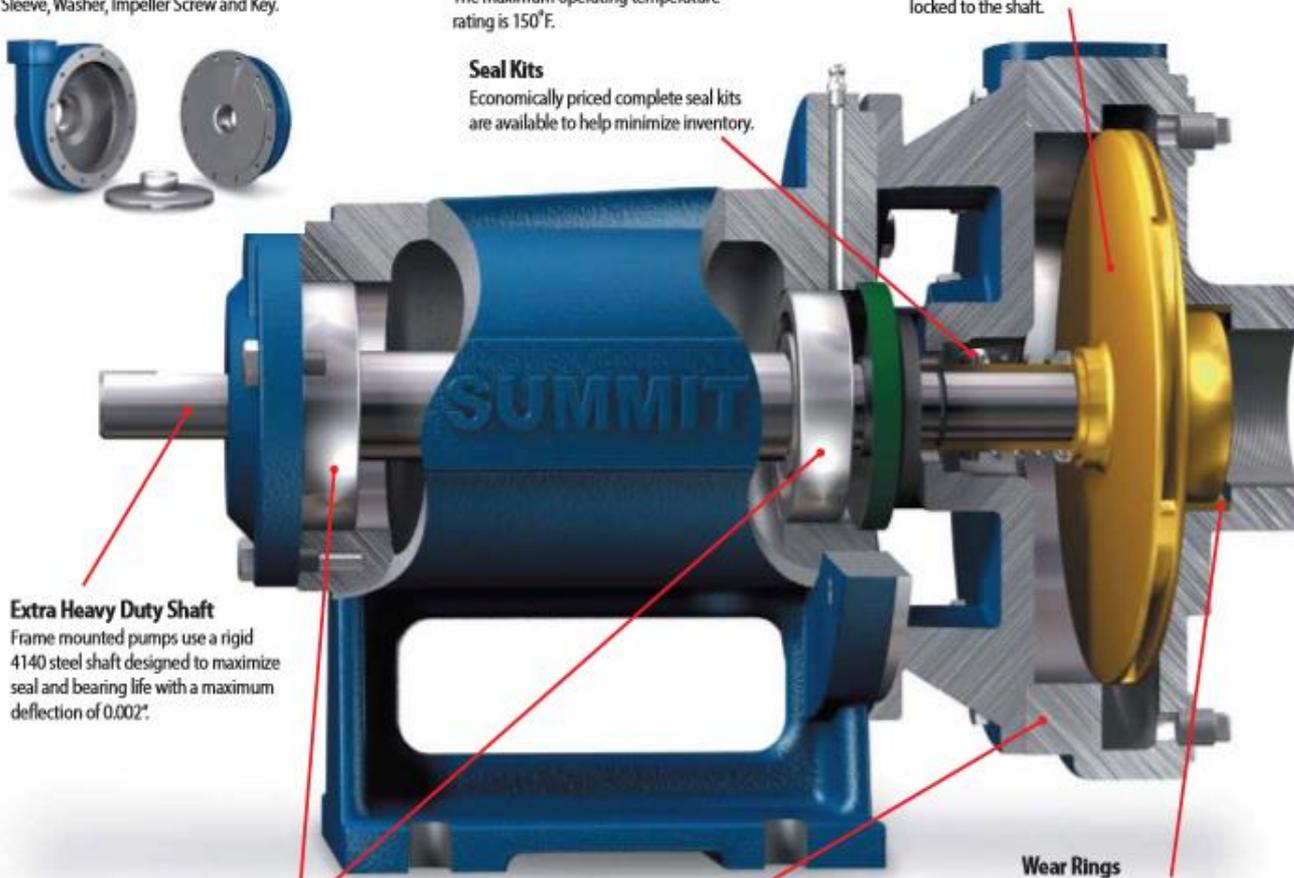
Type 1 seal is standard; constructed of Carbon vs. Silicon Carbide faces, viton elastomers and stainless steel metal parts. The maximum operating temperature rating is 150°F.

Seal Kits

Economically priced complete seal kits are available to help minimize inventory.

Impeller

The enclosed impeller ensures the highest efficiency, and is hydraulically balanced which reduces axial thrust, and increases bearing life. The impeller is keyed and locked to the shaft.



Extra Heavy Duty Shaft

Frame mounted pumps use a rigid 4140 steel shaft designed to maximize seal and bearing life with a maximum deflection of 0.002".

Bearings

Frame mounted pumps have regreaseable SKF single row deep groove ball bearings with a minimum B-10 life of 20,000 hours

Split Casing Design

Back pull out design allows maintenance of bearing frame without disturbing the suction and discharge piping. Eight casing discharge positions are possible.

Wear Rings

Bronze wear rings are easily replaced and prevent casing wear. Rings are not required on 316ss wet ends.



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**CLARK 3
ANSI**

CLARK 3



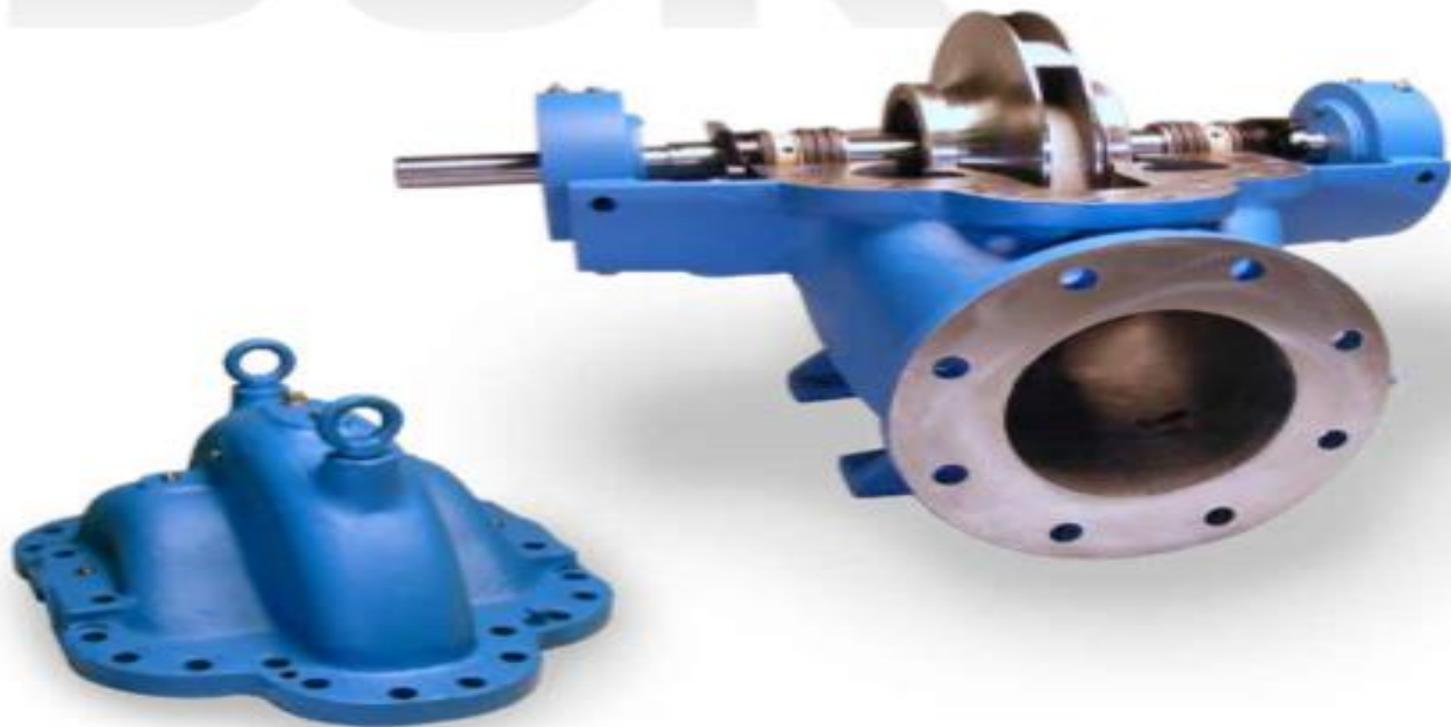
**ANSI Dimensional
Model Clark 3**


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DSR

DSR



**Double Suction
Split Case Pumps**



SUMMIT™

SP

SP



**HEAVY DUTY
SLURRY PUMP**
Metal or Rubber Lined


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CONTACT US



Industrial Pumps S.A

The products that last a lifetime



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