



CK 2000 Series



Continental Pump Company

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WELCOME

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About Continental Pump Company

We offer a complete line of Progressing Cavity Pumps for the commercial waste water and numerous industrial markets. Our goal is to offer quality products and service at a competitive price. Our success is supported by a long standing relationship to quality; a service oriented sales staff, a facility housing thousands of parts and pumps, and a commitment to helping our valued distributors and customers. We strive to keep you informed by providing all the materials and knowledge we have to offer through our staff, engineers and website.

Continental Pump Company has grown its distributorship from a small handful to over 300 distributors in North America, Canada and Overseas; So no matter your location we have a wide network to handle your needs.

We pride ourselves in our manufacturing and delivery of our pumps and parts to our distributors, and Original Equipment Manufacturers in addition to Contractors, Utility and Municipal Plants.

Continental Progressive Cavity Pumps have been time tested with proven unique characteristics that excels in performance unlike other types of Pumps. They are built of various materials in many sizes with capacities from less than 1 gpm to 2400 and pressures to 520 psi.

Our pumps can be purchased separately or built into complete units. These units can be mounted on welded steel bases with specified couplings or belt guards and can either be driven by flexible couplings, v belts, gearbox reducers, or hydraulic motor adapters. If variable speed drives are needed the units can be driven by either electric motors, hydraulic motors, gasoline engines, diesel engines or air motors. Our pumps can also be mounted horizontally or vertically and the suction port can be rotated up to 270 ° position for appropriate entry of the liquid.

Progressive Cavity Pumps are most commonly used in these Industries: gas and oil, mining and industrial wastes with byproducts but are very versatile. They are the perfect pumps for: abrasives, transferring, circulating, metering, pastes, slurries, sludge, waste water, sewage and more.

With a variety of models to choose from Continental Progressive Cavity Pumps are the solutions to handling many types of fluids.

We also offer our compact and cost effective pump with vertical suction for those tightfitting areas.

Between our Pumps, additional features and services Continental Pump Co. can make a pump specifically for your needs.

Visit us at: www.continentalultrapumps.com for more information.

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General Sales Policy

Terms: 30 Days Net, upon approval from Credit Department, otherwise terms are CIA (Cash In Advance). All shipments are F.O.B. Warrenton, MO, USA.

Credit Ratings: New customers that have had no previous business relations must accompany their orders with 4 satisfactory credit references and a credit application. Please contact our Accounting Department for a credit application.

Prices: Prices are subject to change without notice. Prices in effect at date of order entry will prevail. Excluded from pricing is any shipping or handling fees.

Errors and Omissions: We reserve the right to correct prices quoted in error. We are not responsible for prices quoted by our distributors.

Sales and Similar Taxes: Prices do not include sales, use, excise or similar taxes.

Transport Insurance/Claims: The risk of loss passes to the purchaser upon Continental's delivery of goods to carrier. To alleviate loss of goods purchased, shipping insurance is mandatory at customer's expense. All claims for damage or shortage occurring during transit must be made directly against carrier on collect shipping terms and Continental Pump for prepay shipping terms. Before accepting goods, have carrier note any damage or shortage on BOL/freight bill. Boxes, pallets and crates are to be kept for inspection by the carrier until claim has been completed.

Inspection of Goods: Purchaser shall inspect all goods upon receipt and prior to installation or use in further manufacture. Notice of any damages, defect or deficiency must be brought to the attention of the sales department within 7 days of invoice date.

Order Changes: In the event an order is to be changed and already confirmed by Continental the following applies:

- (a) Same day shipments may require a new PO and subject to a handling fee.
- (b) Additional changes to the order may delay original shipment date.
- (c) All changes are subject to approval by Continental's warehouse.
- (d) Changes on non-inventory items may require restock depending on the OEM's return policy.

Cancellation Charges: Purchase orders accepted and acknowledged by the seller may NOT be canceled by the purchaser except with the prior written consent of Continental Pump Co. A reasonable cancellation charge that compensates Continental for all costs incurred in entering, processing and preparing to perform an order will be assessed on the approved cancellation. On standard catalog items cancellation charges will be 25% of net price, \$50.00 net minimum, or actual costs incurred, whichever is greater. Cancellations are not allowed on orders with lead times of one week or less or for special products and non-inventory items.

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Credit Hold Policy: Payment terms are Net 30. Accounts that have been placed on credit hold due to past due invoices are not allowed shipping access to outstanding purchase orders until payment has been received and the account is current with all invoices being under 30 day terms. Once the account is current any open orders will be rescheduled and the original lead time will be acknowledged the date payment is received.

Credit card payments are allowed after the net 30 term but a 4% convenience fee will be added to all past due invoices outstanding to get the account current.

Ongoing credit hold status of your account may change terms and multiplier levels at Continental Pump's discretion.

Returned Goods:

- (a) No products may be returned to the factory for credit without the Company's prior written authorization. To receive an RGA the original purchase order number and date must be provided. Boxes must contain the shippers name, address and authorized RGA number. Packages without this information will be refused and returned to the shipper.
- (b) All transportation costs to the factory for return are prepaid by the purchaser. Customs clearance and freight charges will be deducted from the final credit.
- (c) Once the returnable products are received, inspected, and found to be in like new, resalable condition in the judgment of our inspection department, credit will be allowed on the basis of original invoice value less 25% for parts and a minimum of 35% for pumps. Mechanical seals, elastomers, gaskets and O-rings are excluded from returns.
- (d) When the authorized returnable products are found to be worn or in damaged condition, credit will be allowed only for the usable parts.
- (e) The purchaser will be notified concerning those material returned to the factory which have no salvage value, and return shipping instructions or permission to scrap such items will be requested. If no instructions are received within 30 days after such notice, the material will be scrapped.
- (f) Any non-standard parts, or parts manufactured to customer specification, will not be accepted for return.
- (g) Any items shipped in error by Continental Pump Co. are returnable for full credit, including shipping charges, as long as the items are returned in resalable condition and the error is reported promptly. Contact the sales department for an RGA.

Shipment delays: Shipment dates are estimates only, and all deliveries are subject to unforeseen delays caused by accidents, fires, weather, strikes, riots, government action, supplier delays or shortages and other contingencies beyond Continental's reasonable control.

Minimum Order: A minimum order of \$25.00 net will be made for shipments to any one address.

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Handling Charge: Depending on what is necessary to safely and efficiently package your products, all invoices will include a minimum handling charge of \$8.00 per box, \$10.00 per pallet or \$20.00 per crate for standard shipping. If custom packaging and crates are requested the price of such will be furthered onto the purchaser.

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PUMP WARRANTY

We warrant our pumps against material and workmanship defects under normal use and service of which its products were designed. This warranty is for a period of one year from date of shipment from our plant.

- Given the Purchaser provides the Factory with written notice within the warranty period of such defects and such claims are substantiated by the Seller upon their authorized prepaid return to the Factory.
- The correction of defects in Material and/or Workmanship shall constitute a fulfillment of this Warranty and shall be returned to the user prepaid and credit issued for the incoming transportation.
- The failure of Pumping components due to normal or abnormal wear in operation or by operating conditions beyond the Factory's knowledge or control shall not be considered as evidence of defective material, unless the Factory's examination of these parts discloses such a defect.

Except for the above Warranty the Factory makes no warranty, expressed or implied and no warranty of suitability for a particular use and operation when they have no detail knowledge of all the data prior to purchase surrounding the application of the pump.

The Warranty does not cover any expenses incurred by repairs or alterations made outside of the Factory, nor does it cover in any way the performance of equipment which has been revised or altered by others.

It is essential that Continental Pump Co. be provided all Application Data requested for return/Warranty qualification. Information that will be requested is:

- *Serial Number
- *Pump Series
- *Type of Application
- *Liquid Pumped
- *Pumping Temperature
- *Viscosity Specific Gravity
- *Corrosive Content
- *Abrasive Content
- *Service Cycle
- *Pipe Sizes- Valves- Controls
- *Pump Drive
- *Suction Line
- *Discharge Line

The Customer is fully responsible for the selection of the product for his particular application and for the operating condition in which do not exceed the Factory's said product limitations. Any recommendations offered by Distributors, or Dealers and their representatives are to be considered as their best judgment and as matters of opinion without liability to the Factory. Under no circumstances shall the Continental Pump Co. be liable for damages to good will, loss of profits or for any type of consequential damage.

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PUMPS AND APPLICATIONS

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Pump Guide

How Progressing Cavity Pumps work:

Progressive Cavity Pumps have similar characteristics to rotary or reciprocating pumps, such as piston, diaphragm, lobe, and screw pumps. They are also known as an eccentric screw pump due to the motion of the rotor. The one common feature being the sealed cavities with operational similarities like being able to pump at extremely low rates, to even high pressures. The similarity between other pumps and progressive cavity pumps generally ends there. Of all the types of pumps available, progressive cavity pumps are able to handle a wider range of fluid viscosities and properties than any other type of pump. The unique design of the pump makes them useful for a variety of pumping applications, such as transferring and metering while handling shear sensitive, abrasive and viscous fluids.

The rotors are made of hardened alloy steel or stainless steel and are covered with a chrome plating to give resistance to corrosive and abrasive materials. Some types of liquids affect the chrome plating and in those applications a non-plated rotor should be used.

Stators are metal tubes with internally molded cavities of synthetic or natural rubber.

The rotor seals tightly against the flexible rubber inside the stator as it rotates, forming tightly sealed cavities which carry the liquid toward the discharge port. The liquid does not change in shape or size when pumped due to the tightly sealed cavities. The effect of the progressive cavity design is that the fluid is moved at a very predictable and steady rate. Positive displacement of the pump starts the instant the rotor turns. The liquid acts as the lubricant between the pumping elements and should not run dry.



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The reason progressive cavity pumps are used are because they are durable with only one moving part, rated for longevity. In operation our pumps are primarily a fixed flow rate pump and offers long life and reliable service transporting thick, viscous fluids. Abrasive fluids can shorten the life of the stator, but by slowing down the RPM's will help reduce the wear. Slurries can also be pumped reliably if the slurry is viscous enough to maintain a lubrication layer around the particles and protect the stator.

At the points where the rotor touches the stator, the surfaces are generally traveling diagonally, so these areas need to be lubricated by the fluid being pumped. This means that more torque is required for starting. Rapid deterioration of the stator can happen as a result of the pump operating without fluid, this is called "Run Dry".

The 7 key advantages Progressing Cavity Pumps:

Positive Displacement

This occurs at the turning of the rotor which develops a positive pumping action similar to a piston moving through a cylinder. The pump pressure developed does not depend upon the speed of the rotating rotor. The capacity of the pump, the approximate viscosity, and pressure can be projected for particular operating conditions.

Uniform Discharge Flow

Fluids are uniformly discharged without pulsation in a constant steady flow. Displacement remains the same with each revolution of the rotor permitting accurate and predictable metering relative to the fluid being pumped. Because of the unique flow characteristics, these pumps are well suited for low-shear applications.

Internal Velocity of Fluids

When the pump is in process, all fluids are pumped with a minimum amount of turbulence, agitation, pulsation or separation disturbance.

Self-Priming

Pumping action starts at the time the Rotor is turned and it is capable of 28 feet of suction lift based on water in an appropriate installation. The liquid being pumped acts as a lubricant between the rotor and stator, and forms a continuous seal to create good suction and discharge capabilities. **Do Not Run Dry.**

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Solids in Suspension

Solid particles over a wide range of size and shapes, as large as 1 1/8 inches in diameter, are pumped with no difficulty.

Reversible

Our pumps can be operated clockwise or counter-clockwise with effective performance in most installations. Contact us to see if your application is suitable for reverse operation.

Installation

Our pumps can be purchased separately or built into complete units. These units can be mounted on welded steel bases with specified couplings or belt guards and can either be driven by flexible couplings, v belts, gearbox reducers, or hydraulic motor adapters. If variable speed drives are needed the units can be driven by either electric motors, gasoline engines, diesel engines or air motors. Our pumps can also be mounted horizontally or vertically and the Suction Port can be rotated up to 270 ° position for appropriate entry of the liquid.

Pump Selection Guide

Understanding the pump terminology helps to properly select the best performing Continental Progressive Cavity Pump to fit your pumping needs. Here are a few things you should know:

The **Capacity or Volume** is the rate of flow in gallons per minute or GPM.

Pressure is determined by how much is required to move the liquid that is being pumped through the piping system and the kind of liquid being handled. The difference between the pressure required at the pump discharge and the pressure being introduced into the pump suction is the differential pressure and is expressed as pounds per square inch or PSI

Viscosity is the resistance to flow as expressed by various scales of measurement; however, the most commonly used is centipoise. The viscosity usually changes with temperature and should always be considered.

For conversion purposes the formulas below are of value:

Centipoises = centistokes x specific gravity

Centipoises = $\frac{SSU}{5}$ x specific gravity

SSU= saybolt seconds universal

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Temperature refers to the maximum and minimum temperatures at which the fluid is to be pumped. This is a highly important factor in pump selection. High temperatures can cause distortion and swelling of the stator materials and low temperatures can affect viscosity that reflects in flow characteristics and horsepower requirements.

Operating Time or Operating Cycle of the pump should also be considered; whether the pump is to run continuously or intermittently can be a factor in the selection of the drive.

Corrosion depends on whether the fluid being pumped is neutral, acid or alkaline. All should be considered when selecting the proper materials of pump construction. The pH value of the fluid should be known or determined. A pH of 7 is neutral, below 7 is acid and above 7 is alkaline.

Abrasion depends on the abrasive properties of the fluid to be pumped and how they are classified. Abrasives can look alike and appear to have similar properties; however, they can produce different wearing characteristics. You must classify the fluid in order to select the proper pump construction and operating speed. These 4 classifications will serve as a guide and help in the determination of the necessary materials needed in the pump construction:

No Abrasives

Example: Clear Water, Gasoline, Fuel Oil, Lubricating Oil.

Light Abrasives

Example: Dirty Water containing Silt and/or small amounts of Sand or Earth.

Medium Abrasives

Example: Clay Slurries, Potters Glazes, Porcelain Enamel, Frit, Sludge, Wood Dust in Water.

Heavy Abrasives

Example: Slurries containing large amounts of Sand, Emery Dust, Lapping Compounds, Mill Scale, Plaster, Grout, Roof Gypsum.

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Pump failure is a possibility if inaccurate pump application information is given.

The **pump application data sheet** is a convenient tool used to relay the required information to the application specialists to help them assist in making the proper pump selection.

There are **6 key components** that should be known about your pumping application. They are: flow rate, pressure, pH, viscosity, temperature, and the material being pumped. All components are necessary for proper sizing of pump for your specific application requirements.

Continental Progressive Cavity Pump Models

Rigid Stator Pump with Crown Gear Joint Connections

CK 2000 Series- Designed to handle the heavier applications of sewage, industrial waste, polluted liquids and slurries. Incorporated into this more rugged pump is a drive train using crown gear joint connections to the rotor and drive shaft. This model's suction housing can be rotated from 90° to 270° upon request.



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Liquids that can be handled by Continental Progressing Cavity Pumps

The various materials used in the manufacturing of Continental Pumps allows our pumps to handle almost any fluid. If it will push through pipe, you can pump it with Continental Progressive Cavity Pumps. Whether it be acidic, abrasive or viscous, we can help you with your application needs.

Set forth in the accompanying chart is a partial list of liquids that have been successfully handled along with an indication of the basic materials for the pump body, the rotor and the stator.

Rotors are made of hardened alloy steel (D) or stainless steel (S) and are covered with a chrome plating to give resistance to corrosive and abrasive materials. Some liquids affect the chrome plating and in those applications a non-plated rotor should be used.

Stators are metal tubes with internally molded cavities of synthetic or natural rubber.

When 'D' rotors are used the drive shaft and connecting rod will be carbon steel (CS). When 'S' rotors are used the drive shaft and connecting rod will be stainless steel (S). Maximum allowable temperatures for stators: B (EPDM) 240°F, F (Viton®) 400°F, Q (Buna) 250°F, R (Natural Rubber) 175°

Please see the compatibility chart below for a few of the liquids that can be handled by our progressive cavity pumps. Your liquid not listed? Please contact us for assistance.

Liquid Compatability Chart for Continental Progressive Cavity Pumps									
Liquid	Pump Body		Rotor		Stators				
Acetic Acid (cold dilute)		S		S*	B		Q	R	
Acetone	C	S	D	S	B				
Acid Mine Water	C			S			Q	R	
Alcohol, Ethyl (grain)	C		D				Q	R	
Alcohol, Methyl (wood)	C		D				Q	R	
Alum (paper mill)		S		S	B	F	Q	R	
Aluminum Hydroxide	C		D				Q	R	
Aluminum Sulphate		S		S	B	F	Q	R	
Ammonium Bicarbonate	C	S	D	S	B			R	
Ammonium Chloride		S		S*	B		Q	R	
Ammonium Phosphate	C	S	D	S	B		Q	R	
Ammonuim Nitrate	C	S	D	S	B		Q	R	
Ammonium Sulphate	C	S		S*	B		Q	R	
Aromatic Hydrocarbons	C	S	D	S		F			
Asphalt	C	S	D	S		F			
Barium Chloride	C	S		S	B	F	Q	R	
Barium Hydroxide	C	S	D	S	B	F	Q	R	
Barium Nitrate	C	S	D	S			Q	R	
Barium Sulphate	C	S	D	S			Q	R	
Beer		S		S			Q	R	
Beer Wort		S		S				R	
Beer Sugar Liquor		S		S	B	F	Q	R	
Benzene (coal tar product)	C		D	S		F			
Benzine (petroleum product)	C	S	D			F	Q		
Black Liquor	C	S	D	S		F	Q		
Boiler Feed Water	C		D				Q		
Bordeaux Mixture	C		D				Q	R	
Boric Acid		S		S		F	Q	R	
Brine, Calcium Chloride	C	S		S*	B	F	Q	R	
Brine, Sodium Chloride	C	S		S*	B	F	Q	R	
Calcium Chlorate	C	S	D	S		F			
Calcium Chloride	C	S	D	S	B	F	Q	R	
Calcium Hypochlorite	C	S		S	B	F			
Calgon (sodium hexametaphosphate)		S		S			Q	R	
Carbon Bisulfide	C	S	D	S		F			
Carbon Disulphide	C	S	D	S		F			
Carbonic Acid	C			S			Q	R	
Castor Oil	C	S	D	S		F	Q	R	
Caustic Potash (lye)	C	S	D	S			Q	R	
Caustic Soda (lye)	C	S	D	S	B		Q	R	
Caustic Zinc Chloride		S		S			Q	R	

Note: *non-plated rotor

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Liquid	Pump Body		Rotor		Stators				
China Wood or Tung Oil									
-Drying Oil	C		D				Q		
-Vegetable Oils	C		D				Q		
Chlorinated Hydrocarbons									
-Chloroform		S		S		F			
-Dichloroethylene	C	S	D	S			Q		
-Methyl Chloride	C	S	D	S		F			
-Tri Chloroethylene		S		S		F			
Chromic Acid (diluted)		S		S		F			
Citric Acid		S		S	B	F	Q	R	
Clay Slip	C		D			F	Q	R	
Copper Nitrate		S		S			Q	R	
Copper Sulphate		S		S*		F	Q	R	
Copperas		S		S*			Q	R	
Corn Oil	C	S	D	S		F	Q		
Cotton Seed Oil	C	S		S		F	Q		
Creosote	C	S	D	S		F	Q		
Cyanide	C		D				Q	R	
Cyanide of Potassium	C		D		B	F	Q	R	
Diethylene Glycol (alcohol)	C	S	D	S		F	Q	R	
Distilled Water or Deionized	C	S		S			Q	R	
Distillery Wort	C	S	D	S			Q	R	
Epsom Salts	C	S	D	S	B	F	Q		
Ethyl Alcohol	C	S	D	S	B	F			
Fatty Acids	C	S	D	S		F			
Ferric Hydroxide		S		S	B		Q	R	
Ferrous Sulphate		S		S*			Q	R	
Formaldehyde		S		S		F	Q		
Formic Acid		S		S		F			
Fuel Oils	C	S	D	S		F	Q		
Furural	C	S	D	S	B				
Fusel Oils	C		D				Q		
Gasoline	C		D				Q		
Glucose	C	S	D	S	B	F	Q	R	
Glue	C	S	D	S	B	F	Q	R	
Glycerine	C	S	D	S	B	F	Q	R	
Glycerol	C	S	D	S	B	F	Q	R	
Grain Alcohol	C		D				Q	R	
Hops	C	S	D	S			Q	R	
Hydrocyanic Acid		S		S	B	F			
Hydrogen Peroxide		S		S		F			
Hydrogen Sulfide		S		S	B	F			

Note: *non-plated rotor

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Liquid Compatability Chart for Continental Progressive Cavity Pumps									
Liquid	Pump Body		Rotor		Stators				
Kerosene	C		D				Q		
Lard	C	S	D	S		F	Q		
Lime Water	C		D				Q	R	
Linseed Oil	C	S	D	S	B	F	Q		
Lubricating Oils	C		D				Q		
Lye (sodium hydroxide)	C	S	D	S	B	F	Q	R	
Magnesium Chloride	C	S	D	S	B	F	Q	R	
Magnesium Sulphate	C	S	D	S*	B	F	Q		
Mercury	C	S	D	S			Q	R	
Methanol	C	S	D	S	B		Q	R	
Methyl Chloride	C		D				Q	R	
Milk of Lime	C			S			Q	R	
Mine Water	C			S			Q	R	
Molasses	C		D	S	B	F	Q	R	
Naphtha	C		D				Q		
Nickel Chloride		S		S	B	F	Q	R	
Nickel Sulphate		S		S*	B	F	Q		
Oil - Paraffin Base	C		D				Q		
Oil - Vegetable	C		D				Q		
Paints - Water Base	C		D				Q	R	
Palmitic Acid	C		D			F	Q		
Phosphoric Acid		S		S		F			
Potassium Carbonate	C		D				Q	R	
Potassium Chloride	C		D		B	F	Q	R	
Potassium Nitrate	C		D		B	F	Q	R	
Potassium Phosphate	C		D				Q	R	
Potassium Sulphate	C		D		B	F	Q		
Salammoniac		S		S	B		Q	R	
Salt Brine (to 30%)	C	S		S			Q	R	
Sea Water	C			S			Q	R	
Sewage	C		D				Q	R	
Shellac	C		D				Q		
Soap Liquor (thin)	C	S	D	S	B	F	Q		
Sodium Aluminate	C		D		B		Q	R	
Sodium Bicarbonate	C			S	B	F	Q	R	
Sodium Bisulfite		S		S	B		Q	R	
Sodium Carbonate	C			S	B	F	Q	R	
Sodium Chloride	C	S		S*	B	F	Q	R	
Sodium Hydroxide	C	S	D	S	B		Q	R	
Sodium Nitrate	C		D		B				
Sodium Silicate	C		D		B	F	Q	R	

Note: *non-plated rotor

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Liquid Compatability Chart for Continental Progressive Cavity Pumps									
Liquid	Pump Body		Rotor		Stators				
Sodium Sulfate		S		S	B	F	Q		
Soy Bean Oil	C		D			F	Q		
Starch	C	S	D	S	B		Q	R	
Steric Acid		S	D				Q		
Sugar	C		D				Q	R	
Tar	C		D				Q		
Tar & Ammonia in Water	C		D				Q		
Titanium Chloride		S		S		F			
Toluene (toluol)	C		D			F			
Trub Sludge	C		D				Q	R	
Turpentine	C		D			F	Q		
Varnish	C		D			F			
Vinegar		S		S*	B	F	Q		
Vitriol - Blue		S		S	B	F	Q		
Vitriol - Green		S		S			Q	R	
Waste Water	C		D				Q	R	
Whiskey	C	S	D	S			Q	R	
Wine		S		S	B		Q	R	
Wood Pulp	C		D				Q	R	
Yeast		S		S	B		Q	R	
Zinc Chloride		S		S*	B	F	Q	R	
Zinc Nitrate		S		S			Q	R	
Zinc Sulfate		S		S*	B		Q	R	

Note: *non-plated rotor

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HOW TO SELECT A CK 2000 SERIES PUMP

The performance data in the chart below is based on CK 2000 Series pumps with standard flanged suction and 70 durometer stators pumping clean water at 68° F. To select a pump with other fluids, or with high abrasion and high viscosity applications, please refer to the guides found on pages 23-24.

PUMP		PRESSURE, PSI											
MAX RPM	MODEL NO.	0		45		87		175		300		450	
		GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
750	1E012	89	5	85	5	76	7.5	-	-	-	-	-	-
750	2E012	89	7.5	88	7.5	85	7.5	76	15	-	-	-	-
750	4E012	89	10	89	10	88	10	85	15	80	20	-	-
750	6E012	89	15	89	15	88	15	87	15	84	20	-	-
750	6F012	89	15	89	15	88	15	87	20	84	25	80	30
725	1E022	158	5	149	7.5	128	10	-	-	-	-	-	-
725	2E022	158	7.5	155	7.5	149	15	128	20	-	-	-	-
650	4E022	142	7.5	141	7.5	139	15	133	20	-	-	-	-
650	4F022	142	15	141	15	139	15	133	20	119	30	-	-
650	6F022	142	20	142	20	141	20	138	20	132	30	-	-
550	6G022	120	20	120	20	119	20	116	20	110	30	97	40
650	1F036	223	7.5	211	10	178	15	-	-	-	-	-	-
650	2F036	223	15	220	15	211	20	178	30	-	-	-	-
600	4F036	206	20	205	25	203	25	194	30	-	-	-	-
600	4G036	206	25	205	25	203	25	194	30	175	50	-	-
600	6G036	206	30	206	30	205	30	202	40	195	50	-	-
500	6H036	171	30	171	30	170	30	167	30	158	40	140	60
575	1G065	368	15	346	20	278	25	-	-	-	-	-	-
575	2G065	368	20	362	20	346	30	278	50	-	-	-	-
500	4G065	320	30	319	30	316	30	299	50	-	-	-	-
500	4H065	320	30	319	30	316	30	299	50	258	75	-	-
450	6H065	288	40	287	40	283	40	279	50	260	75	-	-
450	6J065	288	40	287	40	283	40	279	50	260	75	226	100
500	1H115	563	20	537	25	482	40	-	-	-	-	-	-
500	2H115	563	25	555	30	538	40	482	75	-	-	-	-
450	4H115	507	50	504	50	499	50	482	75	-	-	-	-
450	4J115	507	50	504	50	499	50	482	75	445	100	-	-
400	6J115	450	50	449	60	447	60	438	75	420	100	-	-
400	6K115	450	60	449	60	447	60	438	75	420	100	388	150
450	1J175	748	25	711	40	633	60	-	-	-	-	-	-
450	2J175	748	40	737	50	713	60	632	100	-	-	-	-
400	4J175	665	60	662	60	655	75	630	100	-	-	-	-
400	4K175	665	60	662	60	655	75	630	100	576	150	-	-
400	6K175	665	75	663	75	660	100	648	125	621	175	-	-
300	1K335	985	30	907	50	744	75	-	-	-	-	-	-
300	2K335	985	60	961	60	912	100	742	150	-	-	-	-
300	3K335	985	75	973	75	947	100	863	150	-	-	-	-
300	1K620	1860	75	1700	100	1200	150	-	-	-	-	-	-
300	2K620	1860	100	1810	100	1700	150	-	-	-	-	-	-

STEP 2. SELECTING MATERIALS OF CONSTRUCTION

The most commonly used materials of construction are CDQ (cast iron body, alloy steel internals and rotor, nitrile stator). However, compatibility of the various materials with the fluid to be pumped must be checked and selections made accordingly.

Standard Materials		
Pump Body	C, Cast Iron S, 316 Stainless Steel	
Internals, Including Rotor	D, Alloy Steel S, 316 Stainless Steel	
Stators	B, EPDM (to 260°F) F, Fluoroelastomer (to 400°F) Q, Nitrile (to 210°F) R, Natural Rubber (to 185°F) Y, HNBR (to 300°F)	

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STEP 2. SELECTING PUMP ELEMENTS

The initial pump element selection is based on the required flow rate, the maximum particle size in the fluid and the viscosity of the fluid.

Capacity and Viscosity

Determine the size of the pumping elements needed to deliver the required capacity at the viscosity involved from the table above. Select elements large enough to deliver more than the required capacity when operating at the maximum speed shown. For flow rates lower than the maximum listed, the pump would have to operate at a lower speed than the maximum listed. An approximate speed can be determined by multiplying maximum listed speed under the appropriate viscosity column by the ratio of the desired capacity to the maximum listed capacity.

ELEMENT SIZE	VISCOSITY (CENTIPOISE)											
		1	500	1000	2000	3000	5000	10000	20000	30000	50000	100000
008	MAX RPM	750	750	750	750	750	750	550	300	205	130	70
	MAX GPM	54	46	42	38	36	30	20	11	8	5	3
012	MAX RPM	750	750	42	750	750	750	550	300	205	130	70
	MAX GPM	90	76		62	59	50	33	18	12	8	4
022	MAX RPM	600	600	600	600	600	600	550	300	205	130	70
	MAX GPM	132	116	106	95	83	73	60	33	23	14	8
036	MAX RPM	600	600	600	600	600	600	550	300	205	130	70
	MAX GPM	216	190	173	156	145	127	99	54	37	23	13
050	MAX RPM	600	600	600	600	600	600	550	300	205	130	70
	MAX GPM	324	285	260	235	218	191	149	81	56	35	20
065	MAX RPM	550	550	550	550	550	550	550	300	205	130	70
	MAX GPM	357	313	293	261	243	213	179	98	67	42	23
090	MAX RPM	550	550	550	550	550	550	550	300	205	130	70
	MAX GPM	536	470	440	392	365	320	269	147	101	63	35
115	MAX RPM	450	450	450	450	450	450	450	300	205	130	70
	MAX GPM	517	476	439	393	367	326	279	172	118	75	40
175	MAX RPM	400	400	400	400	400	400	400	300	205	130	70
	MAX GPM	700	651	602	546	504	462	392	262	179	114	61
345	MAX RPM	400	400	400	400	400	400	400	300	205	130	70
	MAX GPM	1050	977	903	820	756	693	588	393	269	171	92
620	MAX RPM	300	300	300	300	300	300	300	300	205	130	70
	MAX GPM	1860	1820	1675	1525	1450	1300	1115	930	635	403	215
800	MAX RPM	300	300	300	300	300	300	300	300	205	130	70
	MAX GPM	2604	2548	2345	2135	2030	1820	1561	1302	889	565	301

Note: The table above is based on viscosities for true fluids and is not correct for slurries or emulsions where you are dealing with two viscosities: that of the fluid by itself and that of the resultant mixture. the recommended pumping speed for a slurry will be somewhere between the speed recommended for the viscosity of the suspending fluid and the apparent viscosity of the slurry.

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Particle Size

Once a preliminary selection of elements has been made, determine from the table above if the elements are large enough to pass the largest particle size expected. If not, a larger element size operating at a slower speed will be required.

MAX. PARTICLE SIZE (IN.)	PUMP ELEMENT SIZE							
	012	022	036	065	115	175	335	620
	.07	.085	1.1	1.3	1.5	1.7	1.8	2.0

STEP 3. DETERMINING THE PROPER OPERATING SPEED

PUMP SIZE ELEMENT	ABRASIVE CHARACTERISTICS				
		NONE	LIGHT	MEDIUM	HEAVY
008	MAX RPM	750	600	450	300
	MAX GPM	62	45	38	25
012	MAX RPM	750	600	450	300
	MAX GPM	90	72	54	36
022	MAX RPM	600	475	350	250
	MAX GPM	130	100	77	55
036	MAX RPM	600	475	350	250
	MAX GPM	216	171	126	90
050	MAX RPM	550	400	300	200
	MAX GPM	260	180	150	95
065	MAX RPM	550	450	325	225
	MAX GPM	360	300	210	150
090	MAX RPM	500	400	300	200
	MAX GPM	450	350	260	180
115	MAX RPM	450	350	275	175
	MAX GPM	520	400	320	200
175	MAX RPM	400	325	250	150
	MAX GPM	700	570	440	260
345	MAX RPM	350	200	150	100
	MAX GPM	1000	700	500	320
620	MAX RPM	300	250	175	125
	MAX GPM	1900	1600	1100	780
800	MAX RPM	250	200	150	100
	MAX GPM	2000	1600	1200	700

Using the table above, select the proper operating speed as related to the abrasive characteristics of the fluid pumped. If the speed of the pump elements selected in Step 2 exceeds that given in the above table, select a larger element size that delivers the desired capacity below the maximum recommended speed.

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STEP 5. DETERMINING THE NUMBER OF STAGES

Determine the approximate number of stages required by dividing the maximum differential pressure by the maximum recommended pressure per stage as shown in the table below.

APPROXIMATE DIFFERENTIAL PRESSURE PER STAGE (PSI)				
	ABRASIVE CHARACTERISTICS			
	NONE	LIGHT	MEDIUM	HEAVY
NATURAL RUBBER (R) STATORS 55 DUROMETER	60	45	30	15
ALL OTHERS (B,F,Q and Y) STATORS 70 DUROMETER	87	65	45	25



ADDITIONAL THINGS TO CONSIDER

Solids content and suction conditions can have a significant effect on pump selection and on the HP requirements.

Solids—Fluids containing solids may require an adjustment to HP.

Suction conditions—For high suction lift applications, or for applications involving viscous fluids and net positive suction heads available at the pump that differ significantly from atmospheric pressure (14.7 PSI), it may be necessary to adjust the performance of the pump to compensate for these factors.

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CONTINENTAL PUMP APPLICATION DATA

Please fill out all asterisk areas to adequately size the pump. Please allow 2-3 days for complete In-line base quotes. Without proper information pump failure can occur.

*Company Name: _____

*Name of Material Being Pumped: _____

SERVICE CYCLE

*Capacity:

*Speed:

*Time Per Cycle:

*Hours Per Cycle:

DISCHARGE PRESSURE

*Minimum Pressure: PSI

Constant Pressure: PSI

*Maximum Pressure: PSI

PUMPING TEMPERATURE

Normal:

*Minimum:

*Maximum:

Viscosity: CPS at Normal Temperature:

*Viscosity: CPS at Minimum Temperature:

Specific Gravity:

*Viscosity: CPS at Maximum Temperature:

Weight Per Cubic Ft.:

*Does Liquid Contain Abrasive Materials?

*Size of Abrasive Particles:

Corrosive Chemical Content:

*pH: Acidity: % Concentration:

What Percentage of the Material is Liquid?: %

SUCTION/DISCHARGE

*Is It Flooded:

*Suction Lift:

*Size of Piping Discharge:

*Size of Piping Discharge:

Pump Unit Configuration:

Mounting Arrangement:

Space Limitations:

POWER UNIT

Unit Type:

Control Type:

Motor Type:

Drive Type:

Phase:

Cycle:

Volts:

Enclosure:

HP:



Installation and Operational Instructions

1. **Dry friction is harmful to Progressing Cavity Pumps. Do no operate the pump until it is filled with the liquid to be pumped.** This liquid serves as a lubricant and as a seal between the rotor and stator and is not a priming operation. Approximately 10% of the pump's displacement rating will satisfy the cooling and lubricant requirements until full displacement capacity is attained.
2. Mount the pump on a properly machined and fabricated steel base that is anchored with bolts on a level solid foundation.
3. **Alignment of direct driven pumps** that are driven by a motor or a speed reducer should be carefully checked after the pump base has been mounted on the foundation. Check the alignment of the coupling halves with a straight edge. Alignment should be checked at least four points 90° around the O.D. of the coupling. A space between the pump and driver shaft ends should be held to no less than 1/8".
4. **Belt driven pumps** should be checked after mounting the pump base on the foundation. Make sure, with the help of a straight edge, that the belts and pulleys are in alignment and that the belts have the proper tension.
5. **Pump rotation:** The recommended operating direction is clockwise when viewing the pump from the driveshaft end. However, the pump can be operated in either a clockwise or counterclockwise direction when viewing the pump from the driveshaft end. The inlet and discharge ports are related to the rotation of the pump.
6. **Piping** to pump should always be the same size as the pump inlet port and discharge port openings. Those systems handling viscous, volatile high pressure or high temperature materials may have to be more appropriately sized.
 - a. All threaded joints should be coated and sealed with pipe compound.
 - b. Provide for expansion in the piping system to allow for movement and deflection.
 - c. Use pipe supports to keep the weight of the piping system from causing strain on the pump.
 - d. Make all lines as direct and free of fittings as possible. Minimize suction line by locating the pump below or close to the liquid being pumped.
 - e. When the pump is handling abrasive, corrosive liquids, slurries, sludges, cements, adhesives or any liquids that harden, it should be flushed **clean**. The rotation of the



pump can be operated both clockwise and counterclockwise to accomplish this operation most thoroughly.

- f. It is a good practice to consider installing pressure and/or vacuum gauges in both the inlet and outlet pipes to the pump to check that it conforms to your operating specifications.

Progressing Cavity Pumps are **positive displacement** and the discharge outlet must be kept open or a **relief valve** or a **by-pass piping** arrangement should be provided. If the discharge or inlet into the system is to be shut off or closed, provisions must be made for a relief valve or by-pass arrangement or damage can be done to the pump and the drive, including the motor. Strainers, filters and foot valves should be properly sized so as not to affect performance of the pump and should usually be installed in the suction line.

7. **Pump Bearings** are anti-friction ball type and should be periodically greased. They are initially packed when assembled at the factory.
 - a. **Do not over lubricate.**
 - b. Use quality anti-friction bearing grease.
 - c. It is recommended that under normal use, that no lubrication be added for the first 1200 hours of operation unless it is uncomfortable to hold the hand on the bearing housing.
 - d. The bearing shaft assembly should be inspected and cleaned after running the pump for approximately 2500 hours.
 - e. All old grease should be removed from the bearing and bearing housing. Inspect bearings for wear and repack the bearings with new grease.
 - f. Add a few drops of oil to bearing seals before reassembling.
8. **Packing maintenance procedures**
 - a. The packing gland should be firmly tightened so as to prevent excessive leakage through the packing, but not so tight that it will cause overheating. Always adjust packing gland evenly. Align the packing gland so that it evenly goes into the packing gland cavity of the pump housing.
 - b. **Continental Progressing Cavity Pumps** are supplied with a lantern ring in the midsection of the packing with access to a lubrication fitting on the external surface of the pump body. Lubricating the packing regularly with small amounts of lubricant or flushing with water will extend the life of the packing and help maintain a good seal.
 - c. A scored driveshaft reduces the life of packing and should be replaced.
 - d. When replacing worn packing use standard die-cut formed packing. Do not use one piece spiral packing. Press into place the die-cut and preformed packing rings and stagger the joints 180° apart.

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- e. After packing is installed, tighten the gland bolts finger-tight and evenly. The packed stuffing box is designed to control leakage, not to stop it completely. Leakage is necessary to reduce friction and dissipate heat. Bolts should be backed off gradually as the stuffing box warms up, to avoid overheating of the packing area.
- f. A small amount of leakage through the packing can be normal and helpful for good operation and easily drained away from the base. A leakage rate of 50-100 drops per minute until the packing has seated and adjusted to the operating temperature (approximately 10-15 minutes). If excessive leakage is present after 15 minutes of operation, tighten the gland bolts 1/6 of a turn. Tighten the bolts another 1/6 of a turn after an additional 15 if necessary, and repeat until desired leakage of 1-2 drops per minute is obtained. **Note:** Do not tighten until zero leakage is obtained. Over tightening of the packing gland may result in accelerated wear on the packing and damage to the shaft.

Pre-Start-Up Checks

1. Read and understand all information furnished with pump.
2. Review operating conditions.
3. Check setting of relief valve in discharge line.
4. Check for proper position of belt or coupling guards. Do not operate pump without guards.
5. Fill the pump with the liquid to be pumped. **Do not operate pump dry.**
6. **Rotate driveshaft** of pump four or five rotations. This creates a seal between the rotor and stator to create pumping action.
7. Make sure the inlet and discharge lines are open.
8. Start the unit.
9. Check to see if the pump is delivering liquid. If it is not, refer to the section on checking pump performance.

General Storage Guidelines

- Loosen packing gland to decompress packing set.
- Base units that will be stored for long periods can be rotated every 6 months or remove the stator and belts. If they cannot be removed seal the discharge port. Do not use oil on natural rubber.
- Rotate shaft manually up to 180° every 3 months.
- Spray unprotected metals with a good rust preventative and re-inspect every 3 months.
- It is best to store in warm, dry area with low humidity. Inside is preferred, but if stored outside wrap tightly with a weatherproof cover.

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Start-up after storage

- Fill with fluid
- Check packing. Tighten or replace if necessary.
- Refer to Pre-Start-Up Checks for procedures.

Troubleshooting Pump Performance

A summary of possible causes of improper performance of Progressing Cavity Pumps

No liquid delivered

1. Pump rotating in wrong direction
2. Suction lift too high
3. Clogged suction line
4. Air pockets or vapor lock
5. Air leaks in suction line
6. Faulty relief valve in system
7. Pump not properly primed
8. Suction line not submerged in product
9. Worn pump

Pump Takes Too Much Power

1. Speed too high
2. Liquid more viscous than anticipated
3. Operating pressure higher than specified. Check this with gauge at the pump outlet
4. Outlet line obstructed
5. Mechanical defect, such as bent shaft, tight packing gland, or misalignment of piping
6. Relief valve in system not operating properly

Insufficient Liquid Delivered

1. Air leaks in suction line
2. Air leaks in through packing
3. Speed too low
4. Suction lift too high
5. Partial air pockets or vapor lock
6. Restricted suction line
7. Faulty relief valve in system
8. Worn pump

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Excessive Noise

1. Starved pump, liquid not getting into pump
2. Air leaks in suction line
3. Air or gases in liquid
4. Pump speed too high
5. Improper mounting, check alignment thoroughly
6. Excessive discharge pressure

Rapid Wear of Stator

1. Pump ran dry
2. Grit or dirt in liquid
3. Pump running too fast
4. Excessive pressure
5. Corrosion

Loss of Suction after Start-up

1. Pump not properly primed
2. Suction piping not submerged
3. Suction piping too small
4. Air leaks in suction
5. Insufficient liquid supply

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CK 2000 SERIES MODEL

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CK Model Overview

Our **Rigid Stator Pump Line** consist of our CL, CM, CG and CK Models. Based on your piping situation the suction housing can be rotated from 90° to 270° upon request.



The **CK Model**- is designed to handle the heavier applications of Sewage, Industrial Waste, Polluted Liquids and Slurries. Incorporated into this more rugged Pump is a drive train using **Crown Gear Joint** connections to the Rotor and Drive Shaft.

This model is equivalent to the Moyno® 2000 Series.



Crown Gear Joint

All Moyno® Parts, models and identification numbers are listed for reference purposes only. Continental Pump Co, Inc. is not affiliated with or a representative of Moyno® nor its parent company.



Materials of Construction

Part Description	Continental Letter Key	Moyno ® Letter Key	Materials
Pump Body	C	C	Cast Iron
	S	S	316 Stainless Steel (CF8M)
Rotor	D	D	Chrome Plated Alloy Steel
	S	S	Chrome Plated Stainless Steel
Stator	Q	Q	Buna Nitrile
	R	R	Natural Rubber
	B	B	EPDM
	F	F	Viton®
	Y	Y	HBNR
Internal Parts	CS	CS	Carbon Steel
	S	S	Stainless Steel

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Materials of Construction

All Continental Pump casting materials are Class 40# grey cast iron and CF8M (316) stainless steel. The best metal for your application would depend on how corrosive your liquid is. We offer an epoxy coating for an additional charge and can be applied to the suction housing and reducer. The epoxy seals the cast iron from the material being pumped.

Stators are available in 4 types of elastomers. The rubber materials are: Buna Nitrile, Natural Rubber, EPDM and Viton®. The rubber that is best for your application depends on what liquid you are pumping and at what temperature, as it plays a vital role in which to select.

The rotors are available in Chrome Plated Alloy Steel and Stainless Steel, but is dependent on the pH level and the corrosiveness of your liquid. In certain pH levels a non plated rotor may need to be used, as it could lift the chrome off of the rotor.

Looking for simplicity? We offer complete Progressive Cavity Pump Units. They are constructed on a steel base to fit your specific application needs. The Unit consists of a Pump, a Steel Base & Guard, a Gear Reducer and Motor. Also available are Belt Drive Units and many other base options.

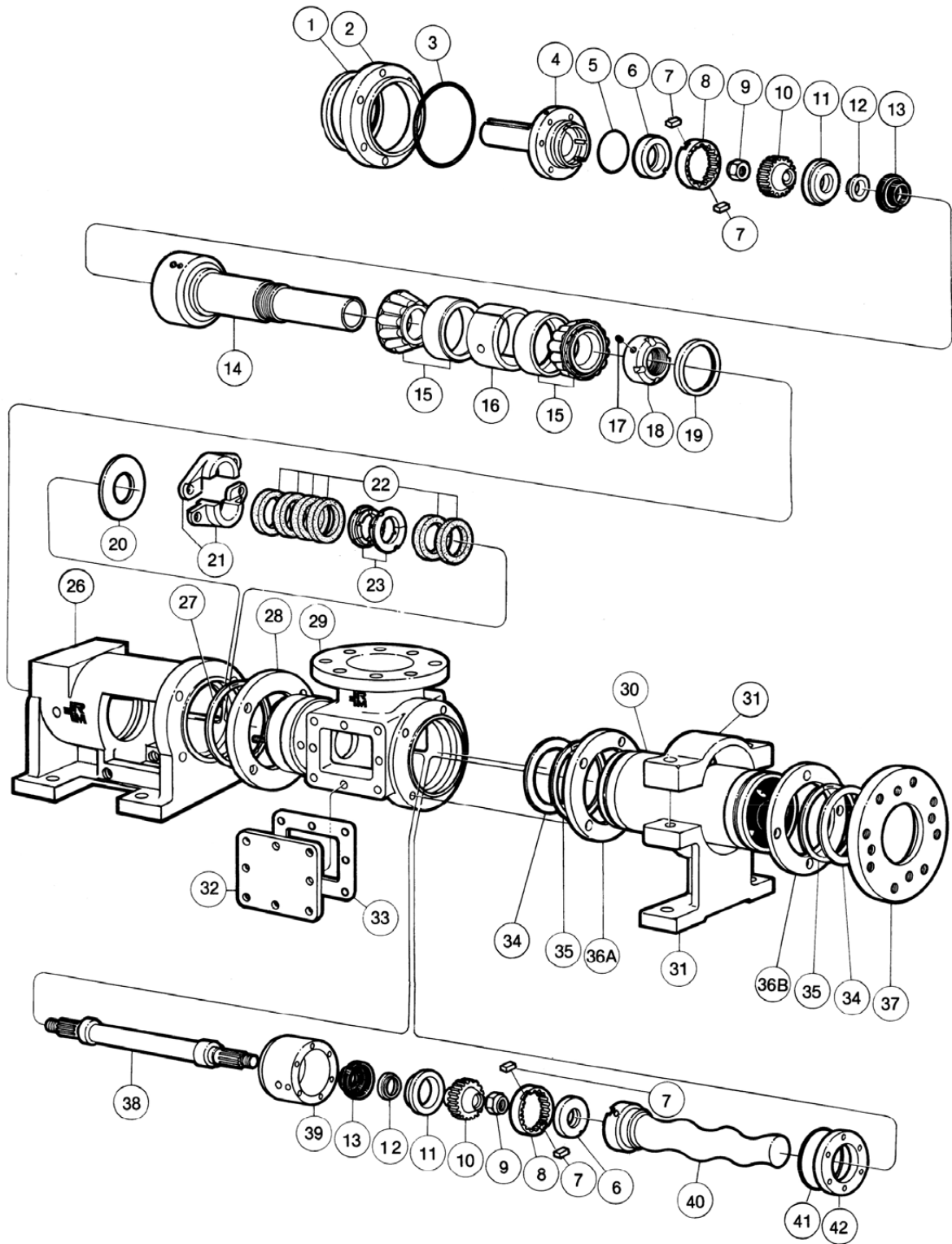
Space Challenged? If you are needing a different arrangement from traditional piping, we can rotate the housing up to 270° for the CL, CM & CG Model Pumps.

Don't need a complete pumping unit but looking for drive options? We can still help, whether attached to a pump or sold separately we can supply you with Hydraulic Adapters, VFD's, Gear Boxes and Motors.

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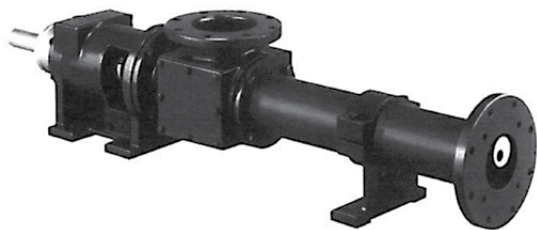
Disassembly and reassembly of a CK 2000 Series pump



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CK 2000 SERIES PUMPS



4-8. DISASSEMBLY

Note: The following instructions cover **ONE** procedure for disassembling all pump components. Major pump components can be disassembled in various ways since specific installation location limitations will determine method of component removal.

4-9. Disconnect Pump

1. Flush the pump (preferably with clean water) to remove the pumpage from the unit.
2. Shut off pump.
3. Close suction and discharge valves.
4. Turn off flush water to packing or mechanical seal, if used.
5. Disconnect power source.
6. Drain any fluid in pump by removing the drain plug or inspection plate.
7. Remove inspection plate (32) and gasket (33).

4-10. Packing Removal

1. Shut off pump.
2. Complete Section 4-9, steps 3 - 6.
3. Remove gland adjustment nuts (F), gland studs (H) and gland halves (21) from stuffing box.
4. Remove packing rings (22). This is best done by using flexible packing extractors (see fig. 4-2). Use two extractors simultaneously on opposite sides of each ring. Pull evenly.
5. Remove lantern rings (23) in similar fashion. Twist split rings to remove from shaft.
6. Remove additional packing rings.

4-11. Stator Removal

1. Complete Section 4-9.
2. Remove section of discharge pipe attached to discharge flange (37).
3. Remove top half of stator support (31).
4. Unbolt stator clamp ring (36A) from suction housing (29). Pull stator off rotor. Remove stator gasket (34). Use a screwdriver tip to carefully remove stator retaining ring (35). Remove stator clamp ring (36) from stator (30).
5. Remove discharge flange by unbolting from stator clamp ring (36B) and remove stator gasket (34). Remove stator retaining ring (35) and stator clamp ring from stator (30).
6. Check rotor (40) and stator (30) for wear. See Sections (4-21) and (4-22) for instructions.

4-12. Drive End Gear Joint Removal

1. Complete Section 4-9.
2. Remove drive coupling or V-belts and pulley from drive shaft head (4).
3. Remove vent plugs (C) from drive shaft head (4) and drive shaft (14). Remove set screw (D) from drive shaft (14). Remove six socket head screws (E) from drive shaft head (4) and remove drive shaft head. Remove primary thrust plate (6) from drive shaft head and remove two keys (7).
4. Remove lock nut (9) from end of connecting rod (38). Remove ring gear (8), gear ball (10), secondary thrust plate (11), seal support (12), and gear joint seal (13).

Note: It is recommended that each time the drive end gear joint is disassembled, the drive shaft O-ring (5) and gear joint seal (13) should be replaced.

4-13. Rotor and Connecting Rod Removal

1. Complete Sections 4-9, 4-11 and 4-12.
2. Pull the rotor/connecting rod assembly from the pump. Remove the vent plug (C) and set screw (S) from the gear joint shell (39).
3. Remove six socket head screws (T) from head ring (42) and remove head ring and O-ring (41). Slide connecting rod/ gear joint assembly off rotor head. Remove gear joint keys (7) and primary thrust plate (6) from rotor (40).
4. Slide gear joint shell (39) off gear ball/connecting rod assembly. Slide ring gear (8) off gear ball (10).
5. Clamp connecting rod (38) in vice or hold with pipe wrench and remove lock nut (9). Remove gear ball (10), secondary thrust plate (11), seal support (12), and gear joint seal (13) from connecting rod.

Note: It is recommended that each time the rotor end gear joint is disassembled, the rotor head O-ring (41) and gear joint seal (13) should be replaced.

4-14. Drive Shaft and Bearings Removal

Note: If the space immediately in front of the pump is unobstructed for a distance equal to the length of the drive shaft, follow steps 1 through 3.

1. Complete Sections 4-9 and 4-12.
2. Remove six hex head screws (A) from bearing cover plate (2). Slide bearing cover plate (2) with radial grease seal (1) and O-ring (3) off drive shaft.
3. Pull drive shaft/bearing assembly out of bearing housing, taking steps to support the weight of the assembly as the bearings clear the housing. Remove grease seal (19) from the bearing housing.

Note: If the space in front of the pump is obstructed, and the obstruction is not easily moveable, follow steps 4 through 6.

4. Complete Sections 4-10 and 4-11, and pull the rotor/connecting rod assembly from the pump.

5. Remove the four cap screws (0) from the clamp ring (28), and the four cap screws fastening the bearing Housing (26) to the base. Slide the bearing housing/shaft assembly out of the suction housing until the quill clears the stuffing box. Assembly may now be turned or removed to an area where sufficient space is available to permit removal of the shaft/bearing assembly.

Note: Some pumps have a sleeve installed on the drive shaft to receive any possible wear caused by the packings. (See fig. 4-10.) To remove sleeve, refer to Section 4-47.

CAUTION: The bearings are pressed on the shaft during assembly. Care must be taken during disassembly to avoid damaging the bearings or shaft.

6. Remove bearing lock screw (17) from bearing nut (18). Using suitable spanner wrench or soft punch and hammer, thread lock nut off drive shaft. Do not use a pipe wrench to remove the lock nut.
7. Remove both halves of bearing spacer (16) from shaft, and using suitable bearing press and adapters, press bearings off shaft.

4-15. CLEANING

Clean all parts in a suitable cleaning solvent being careful to observe all safety precautions regarding the use of solvent.

4-16. INSPECTION

4-17. Bearings. After cleaning, rotate bearings very slowly under hand pressure to feel for smoothness and even action. Never spin a dry bearing. Check for cracks, galling, pitting, burrs, etc. Replace bearing if there is any doubt concerning complete serviceability.

4-18. Drive Shaft. Inspect drive shaft (14) for scoring, burrs, cracks, etc. Replace as necessary.

4-19. Seals. It is sound practice to always replace grease seals (1 and 19) whenever drive shaft and tapered roller bearings are removed. Apply Loctite 690 to outside diameter of both grease seals.

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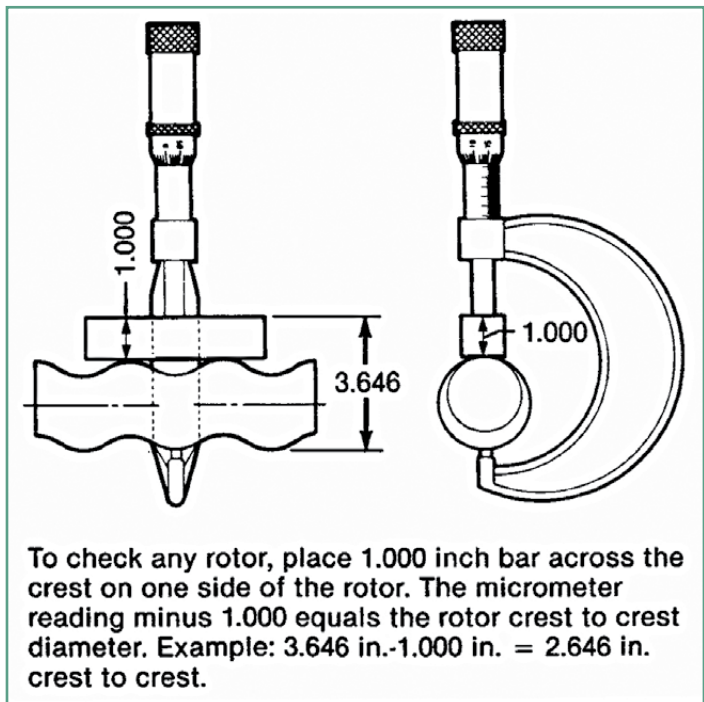
4-20. Packing. It is sound practice to always replace pack-ing (22) whenever the pump bearing housing is disassembled.

4.21. Rotor.

1. To check for excessive wear of rotor (40), measure the rotor crest-to-crest diameter (see fig. 4-4) and compare with the following chart:

Rotor Capacity	Standard *Crest to Crest Dia. (inches)
008	2.772 + .000/— .004
012	2.676 + .000/— .004
022	3.425 + .000/— .004
036	4.015 + .000/— .004
050	4.015 + .000/— .004
065	4.906 + .000/— .004
090	4.906 + .000/— .004
115	5.709 + .000/— .004
175	6.584 + .000/— .004
335	5.800 + .000/— .005
345	7.260 + .000/— .004
620	7.128 + .000/— .005
800	7.658 + .000/— .004

Note: The rotor is designated by the third, fourth and fifth numbers in the Model Number, i.e., 1G065G1



2. If the measured crest to crest diameter is within 0.010 inch of the standard value and is free of deep nicks, gouges, or other surface defects, the rotor is re-usable.
3. Rotors with crest to crest values 0.011 to 0.050 inch under the standard values should be replaced. These rotors can be renewed by chrome plating to standard dimensions provided that:
 - a. The key slots are not excessively worn.
 - b. The rotor surface is not cracked, pitted or deeply grooved (1/32 inch or more).
 - c. The base surface metal is not pitted or corroded.
4. Rotors may be sent in for evaluation.

4-22. Stator. A worn stator may appear pitted and gouged, or may appear smooth similar to when new. Performance is the best measure of rotor to stator fit. If unable to measure performance adequately, suspected stator wear.

4-23. All Other Parts. Check for cracks, excessive wear, damage to threaded holes, burrs, etc. Replace as necessary. Replace O-rings and all gaskets at each disassembly and reassembly.

4-24. ASSEMBLY

The CK 2000 pumps are reassembled in the reverse order of dismantling. The following suggestions are offered:

1. While pump is dismantled, check all gaskets, seals, packing, and O-rings. Replace all worn items. It is recom-mended that the gear joint seals (13), gear joint O-ring (41), and drive shaft O-ring (5) be replaced each time either of the gear joints is disassembled.
2. During the assembly process, cleanliness is important. To avoid premature failure, bearings and gear joint compo-nents must be handled with care and kept clean.

4-25. Lubrication During Assembly

Note: The bearings are lubricated at the factory, and will only need to be re-lubricated when the shaft/ bearing assembly is completely removed from pump.

1. **Bearings.** Pack bearings after installation on shaft (Section 4-28). Lubricant should be packed around all of the rollers and should completely cover the faces of the races. The void inside the spacer between the bearings should be filled approximately half way with lubricant.

2. Gear Joints. Both gear joints should be packed with lubricant during assembly (Sections 4-30 and 4-32). DO NOT use zerk fittings to lubricate gear joints after assembly. The pipe plugs (C) in the drive shaft head, drive shaft, and gear joint shell are vent plugs and MUST BE REMOVED during assembly of the gear joints to allow excess lubricant to vent from the gear joints.

3. Packing. Lubricate packing rings during assembly. Ad-ditional grease can be added after assembly through the zerk fittings installed in the side of the stuffing box.

4. Approved lubricants:

CAUTION: Do not mix different brands of lubricants for the same application.

Area to Lubricate	Approved Lubricant or Equivalent
Bearings, Gear Joints & Packing	ACG-2 (Dubois Chemical, Inc.)

4-26. Packing Installation

1. The standard packing set (22) consists of six braided packing rings. Lantern ring halves (23) must be ordered separately.

2. Install packing and lantern ring halves into the stuffing box area of the suction housing (29) in the following sequence:

- Wipe a film of lubricant on each packing ring and install two rings. Push each ring firmly in place.

Note: Install the packing rings with the splits staggered at 90 degrees to the adjacent ring of packing. On initial assembly, one ring of packing may not fit in stuffing box. This final ring of packing should be installed after pump is started and packing is seated.

CAUTION: Always use a proper packing tamper tool to install packing. Do not use a pointed or sharp tool, as damage to the packing material or drive shaft could result. To assure proper shaft lubrication, never use a one-piece spiral wrap packing.

- Install the two lantern ring halves with the flat side against the packing.
- Install final four packing rings, firmly pushing each ring into place.

3. Install packing gland studs (H), packing gland halves (21), and gland adjusting nuts (F). Tighten nuts finger tight at this time.

4-27. Bearing Housing/Suction Housing Assembly

This procedure may be performed now or after the bearing/drive shaft assembly is installed in the bearing housing.

- Place clamp ring (28) on suction housing (29) and install retaining ring (27) in groove on suction housing.
- Slide turned diameter of suction housing into bore on end of bearing housing (26). Align holes in clamp ring (28) with four threaded holes in bearing housing (26) and thread four hex head screws (0) with lock washers into threaded holes. Tighten finger tight.
- Rotate suction flange to desired position (if not already fastened to piping) and tighten four hex head screws (0).

Note: Refer to Torque Guidelines Chart (page 12) for the proper torque requirement for all threaded fasteners.

4-28. Bearing/Drive Shaft Assembly

- Bearings must be pressed on the shaft in the following sequence: [Larger units (G drive end and larger) require heating of the bearings to 250° F before assembly.]
 - Press bearing cone on shaft (14), making sure rollers face in proper direction to receive cup (step b). Cone should be pressed firmly against shoulder on shaft.
 - Place cup on rollers.
 - Place bearing spacer (16) halves on cup.
 - Place second cup on spacers.
 - Press second bearing cone on shaft with rollers facing seat in cup. Cone should be pressed on until face of cone is flush or even with shoulder on shaft.

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CAUTION: Do not press second cone past shoulder on shaft.

2. Thread bearing nut (18) on shaft (14) and tighten until it rests against the shoulder on the drive shaft. Install brass tip set screw (17) in bearing nut and tighten.

Note: The tapered bearings are designed such that when properly installed there may be a very slight end play in the bearings (bearing spacer halves may slip freely out of place) or they may have a slight pre-load (bearing spacer halves held tightly in place and bearings do not turn freely).

3. Remove bearing spacer halves (16). Thoroughly pack lubricant around rollers and on bearing races. Install one half of bearing spacer. Fill area between bearings half full of lubricant, and install other half of bearing spacer.

Note: Assuming the bearings are not too hot, an alternate method of lubricating bearings is as follows: Pack the rollers of the first cone immediately after it is pressed on shaft. Lubricate race of first cup before it is installed. Place bearing spacer halves in place and fill it full of lubricant. Lubricate race of second bearing cup and place on spacer. Pack rollers of second cone with lubricant, and press on shaft until flush with shoulder.

Note: If too much grease is packed into the bearings during assembly, it may seep from the grease seals during the first few hours of operation until the proper lubricant level is achieved. This lubricant should be wiped from the seal area, when the pump is not operating, to prevent contaminants from collecting in the seal area.

4. Install (light press) grease lip seals (1 and 19) into bearing cover plate (2) and bearing housing (26) with Locktite. The lip of the radial grease seal (1) should be facing outward with spring visible. The lip of the seal (19) should be facing the bearings. The lips of both seals should be wiped with grease.

5. Install drive shaft with bearings in bearing housing, being careful to avoid damaging the grease seal (19).
6. Place O-ring (3) on bearing cover plate and bolt bearing cover plate to bearing housing using six hex head screws (A) and lock washers. The six screws should be tightened evenly, and care should be taken to insure the O-ring becomes seated in the step in the bearing housing. When the bearing cover plate is fully secured to the bearing housing, a small gap of 0.010 to 0.020 inch will exist between the bearing cover plate and the bearing housing.

Note: Some pumps have a sleeve installed on the drive shaft to receive any possible wear caused by the packing. (See fig. 4-10.) If the sleeve is used, install at this time. Refer to Section 4-48 for details.

4-29. Rotor/Stator Assembly

1. Slide head ring (42) over rotor (40) contour to the rotor head. The side of the head ring with the smallest diameter holes should be facing the rotor head.

Note: On some models the head ring is a two-piece component which eliminates this step.

2. Slide stator clamp rings (36) on both ends of the stator (30) and secure in position with retaining rings (35).
3. On F012, G022, H036, H050 and K115 models, place one stator gasket (34) in recess of adapter flange (25A), and fit adapter flange with gasket to end of stator.
4. Coat the rotor (40) contour with waterless hand cleaner, glycol or other lubricant compatible with the stator elastomer. Insert rotor into stator so that rotor head is at the specified distance from the end of the stator (Dimension "A," fig. 4-5). On F012, G022, H036, and K115 models, be sure the rotor is inserted in the end of the stator fitted with the adapter flange (25A) and gasket (34).

Note: Turning the rotor counterclockwise while inserting into stator will ease assembly.

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4-30. Rotor Gear Joint Assembly

1. Slip O-ring (41) over the rotor head and allow to hang loose with head ring. Insert primary thrust plate (6) into rotor head, flat side first. Thrust plate and rotor head surfaces must be flush to assure proper assembly and operation of the pump. (See fig. 4-6.)
2. Assemble the rotor end gear joint by first fitting a gear joint seal (13) onto the connecting rod assembly (38). The seal must be positioned so that the flat face of the seal neck fits into the seal retainer component of the connecting rod assembly. Apply a small coating of approved gear joint lubricant to the inside surfaces of the seal.
3. Apply a small amount of lubricant to the flat face of the seal support (12) and slide it onto the connecting rod so that the flat face and radius of the support is against the seal.
4. Grease the concave spherical surface of the rear thrust plate (11) and position thrust plate against the seal (13) with the lip on the outside diameter of the seal fitting the step on the back side of the thrust plate.

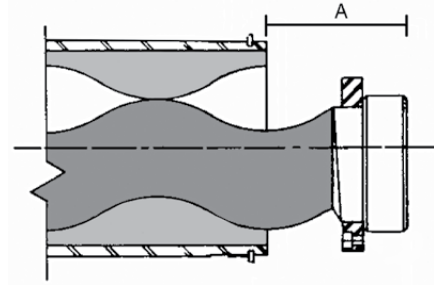


Figure 4-5. Rotor Installation

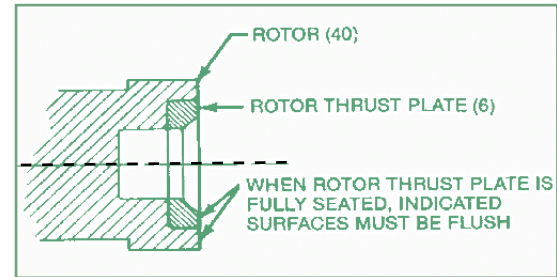


Figure 4-6. Rotor Thrust Plate Seating Detail

Frame Designation	A (inches)
1E008G1	4.06
2E008G1	4.06
4E008G1	4.06
6E008G1	4.06
1E012G1, 1E018EG1	4.06
2E012G1, 2E018EG1	4.06
4E012G1	4.06
1E022G1, 1E033EG1	3.62
2E022G1, 2E033EG1	3.62
1E036G1	4.56
1F022G1	4.62
2F022G1	4.62
4F022G1	4.62
6F01231	5.00
1F036G1, 1F0543G1	4.00
2F036G1, 2F054EG1	4.00
1F050G1, 1F075EG1	4.00
2F050G1, 2F075EG1	4.00
4F050G1	4.00
1F065G1	4.75
1G036G1	5.68
2G036G1	5.68
4G036G1	5.68
4G050G1	5.68
6G050G1	5.68
6G022G1	6.06
1G065G1, 1G098EG1	6.06
2G065G1, 2G098EG1	6.06
1G090G1	6.06
2G090G1	6.06
1G115G1	6.19

Frame Designation	A (inches)
1H065G1	6.25
2H065G1	6.25
4H065G1	6.25
2H090G1	6.25
4H090G1	6.25
6H036G1	6.62
6H050G1	6.62
1H115G1	6.25
2H115G1	6.25
1H175G1	6.75
1J115G1	6.84
2J115G1	6.84
4J115G1	6.84
6J065G1	6.84
6J090G1	6.84
1J175G1	7.00
2J175G1	7.00
1J335G1	7.19
1K175G1	8.70
2K175G1	8.70
4K175G1	8.70
6K115G1	9.20
1K335G1	8.70
2K335G1	8.70
3K335G1	8.75
1K345G1	8.75
2K345G1	8.75
3K345G1	8.75
1K620G1	8.75
2K620G1	8.75
1K800G1	7.50
2K800G1	7.50

5. Apply a film of grease to the splines on the inside of the gear ball (10). Install gear ball on connecting rod (38), with counter-bored end (end without splines) first on connecting rod. Gear ball should slide freely against shoulder on connecting rod. Place lock nut (9) on connecting rod and tighten against gear ball. Apply grease to spherical surfaces and teeth of gear ball.
6. Apply grease to the teeth of the ring gear (8), and slide ring gear onto the gear ball. When ring gear is in place, keyways should be facing the lock nut end of connecting rod.
7. Apply a thin coating of grease to the spherical surface of the thrust plate (6) already installed in the rotor head. Fill the recessed area in the rotor head with grease.
8. Slide the gear joint shell (39) over the connecting rod and assembled gear joint components, being careful to seat the outside diameter of the gear joint seal (13) in the end of the gear joint shell (39). The two tapped holes in the gear joint shell should be in line with one of the keyways in the ring gear.
9. Place keys (7) in the keyways in the ring gear. Check to insure the tapped holes in the side of the gear joint shell are aligned with one of the keyways.

10. Align the keys in the ring gear with the keyways in the rotor head. Slide assembled gear joint shell onto the rotor head, checking to be sure the keys are properly engaged in the rotor head and ring gear. The shallow hole in the rotor head should be aligned with the first threaded hole in the outside of the gear joint shell. Thread the set screw (S) into the threaded hole in the shell until light contact is made with the hole in the rotor head.
 11. Place O-ring (41) into step in gear joint shell. Align holes in head ring (42) with six threaded holes in end of gear joint shell and install stainless socket head screws (T). Tighten the six socket head screws evenly, checking to insure O-ring (41) remains in place. When tightened properly, a small gap of a few thousandths of an inch may exist between the shell (39) and head ring (42).
 12. Excess grease in the assembly will be purged from the vent hole while the socket head screws are tightened. Tighten the setscrew (S) in the shell. Move the free end of the connecting rod in a circular motion to assure that the joint is free and assembled properly. This will also help to purge excess grease from the assembly.
 13. Install the stainless steel pipe plug (C) in the second hole in the shell and tighten.
4. Check the dimension "C" between the end of the connecting rod and face of the drive shaft as shown in fig. 4-7. For proper assembly of the drive end gear joint, this dimension should be no less than that shown in column C, and should not exceed the amount in column C by more than 1/8 inch. Reposition rotor/stator assembly in or out of suction housing as required to achieve the proper dimension.

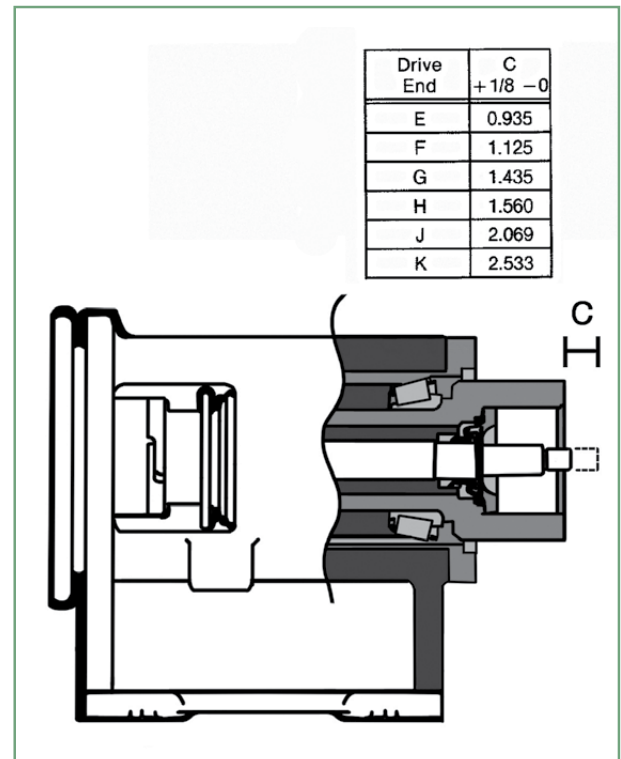


Figure 4-7. Gear Joint Installation

4-31. Rotor/Stator to Drive End Assembly

1. If not already in place, slip stator clamp rings (36) on both ends of stator (30), and install retaining rings (35) in grooves provided on both ends of stator.
2. Place stator gasket (34) in recess in end of suction housing:
 - a. On J335 model, stator gasket (34) will be installed in recess in adapter housing (25B).
 - b. On F012, G022, H036, and K115 models, stator gasket (34) will fit recess in adapter flange (25A) and adapter flange gasket (24A) will fit recess in suction housing.
3. Move the rotor/stator/connecting rod assembly in position, and insert connecting rod through the suction housing and drive shaft. Align stator with bore in suction housing, and slide stator in place, checking to insure that stator gasket (34) remains properly positioned.
5. If the stator is firmly seated against stator gasket in suction housing recess, and connecting rod extends beyond face of drive shaft by specified amount, stator may be secured to suction housing. If the specified dimension cannot be maintained with stator firmly seated, do not perform the following step 6 until the drive end gear joint is properly assembled.
6. Align holes in clamp ring (36A) with threaded holes in suction housing, and thread four hex head screws (R) with lockwashers through holes in clamp ring into threaded holes in suction housing. Tighten hex head screws evenly.

4-32. Drive End Gear Joint Assembly

1. Check to see that connecting rod extends beyond face of drive shaft by amount specified in column C of fig. 4-7. (See Section 4-31, step 4.)
2. Fit the gear joint seal (13) on the connecting rod (38). Push the seal firmly in place on the connecting rod so that the neck on the seal seats in the recess in the seal retainer component of the connecting rod.
3. Apply a film of gear joint grease to the inside of the gear joint seal and to the flat face of the seal support (12). Slide the seal support (12) onto the connecting rod such that the flat face fits against the seal.
4. Apply a film of grease to the concave spherical surface of the secondary thrust plate (11), and slowly push the thrust plate into the drive shaft until it rests firmly against the seal.
5. Apply a film of grease to the gear ball (10) splines and spherical surfaces, and install gear ball on connecting rod, counter-bored end first (end without splines). Gear ball should slide freely on rod until it contacts shoulder on rod. Install connecting rod lock nut (9) and tighten against gear ball. While tightening lock nut, prevent connecting rod from turning by carefully holding with pipe wrench or vise grips through inspection ports in suction housing.
6. Apply liberal amount of grease to gear ball teeth and ring gear (8) teeth, and slide ring gear into the drive shaft assembly. Keyways in ring gear should be facing out, and one of the keyways should be aligned with drilled and tapped holes in outside diameter of drive shaft.
7. Place keys (7) in keyways of the ring gear. A small amount of grease may be used to hold the keys in place. The flat face of the ring gear should be approximately flush with the face of the drive shaft.
8. Place primary thrust plate (6) in drive shaft head (4), aligning slot in outside diameter of thrust plate with pin in drive shaft head. When the thrust plate is properly seated, the face of the thrust plate should be flush with the face of the drive shaft head.
9. Lubricate the spherical surface of the thrust plate and fill the recess in the drive shaft head with grease.
10. Place O-ring (5) in the groove on drive shaft head (4). Align the keyways in the drive shaft head with the keys in the ring gear, and insert the head into the drive shaft assembly.

11. Thread the six socket head screws (E) through the drive shaft head into the drive shaft. Tighten them evenly until face of drive shaft head is tight against face of drive shaft. Excess grease in the gear joint assembly will be purged from the holes in the drive shaft and drive shaft head.

Note: If the standard socket head screws are not long enough initially to engage the threads in the drive shaft, two longer screws may be used 180 degrees apart to pull the drive shaft head close enough to the drive shaft to engage the standard screws.

12. After the six socket head screws (E) are secured and the grease has been purged from the assembly, install the pipe plugs (C) in the drive shaft head and drive shaft. Also install the locking set screw (D) in the drive shaft in the threaded hole nearest the bearing housing.
13. If the stator was not previously tightened to the suction housing (Section 4-31, step 5), it should be tightened at this time.

4-33. Stator Support/Discharge Assembly

1. Place top of stator support(s) (31) over stator and fasten to bottom half of stator supports using hex head screws (L).
2. Place stator gasket (34) in recess in discharge flange (37) and position discharge flange on end of stator. Align holes in stator clamp ring (36B) with threaded holes in discharge flange, and install and tighten hex head screws (M).

4-34. Final Assembly

1. Install inspection plates (32) to suction housing (29) with gaskets (33), using hex head screws (P) and lockwashers.
2. Install pipe plugs (Q and J) and zerk fittings (K) in appropriate threaded holes in suction housing. Install pipe plugs (N) in threaded holes in bearing housing, or attach drain lines if preferred.
3. Connect power source. Turn on flush water to packing if used. Open suction and discharge valves, and start pump.

4-35. PACKING ADJUSTMENT

Packing gland nuts should be evenly adjusted so they are little more than finger tight. (See fig. 4-1.) Over-tightening the packing gland may result in premature packing failure and possible damage to the shaft and gland.

When packing is new, frequent minor adjustments during the first few hours of operation are recommended in order to compress and seat each ring of packing evenly.

1. Upon initial start-up of the pump, adjust the gland nuts for a leakage rate of 1-2 drops per second until the packing has seated and adjusted to the operating temperature (approximately 10-15 minutes).
2. If leakage is excessive after 15 minutes of operation, tighten the gland nuts until a desired leakage rate is obtained.

CAUTION: Do not tighten until zero leakage is obtained. Over-tightening of the packing gland may result in accelerated wear on the packing and damage to the shaft. In those situations where no packing leakage can be tolerated, consult your Continental Dist. for Mech. seal quote.

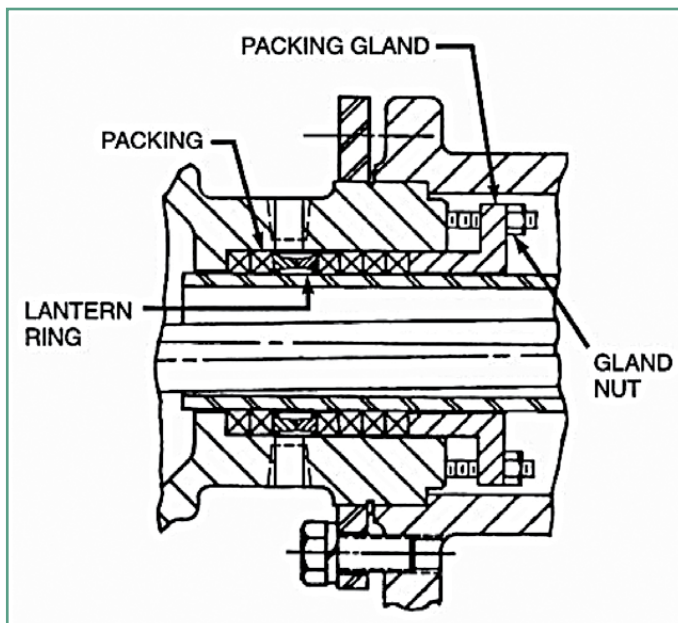


Figure 4-1. Cross Section of Stuffing Box

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CK 2000 SERIES PERFORMANCE

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Performance Data CK 2000 Series

Water @ 68° F

PUMP		PRESSURE, PSI											
MAX RPM	MODEL NO.	0		45		87		175		300		450	
		GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
750	1E008	44	2	41	2	40	3	-	-	-	-	-	-
750	2E008	44	3	42	3	39	3	34	7.5	-	-	-	-
750	4E008	44	5	40	5	36	7.5	30	10	28	-	-	-
750	6E008	44	7.5	38	7.5	34	10	27	10	25	12.5	-	-
750	1E012	89	5	85	5	76	7.5	-	-	-	-	-	-
750	2E012	89	7.5	88	7.5	85	7.5	76	15	-	-	-	-
750	4E012	89	10	89	10	88	10	85	15	80	20	-	-
750	6E012	89	15	89	15	88	15	87	15	84	20	-	-
750	6F012	89	15	89	15	88	15	87	20	84	25	80	30
725	1E022	168	5	149	7.5	128	10	-	-	-	-	-	-
725	2E022	168	7.5	165	7.5	149	15	128	20	-	-	-	-
650	4E022	142	7.5	141	7.5	139	15	133	20	-	-	-	-
650	4F022	142	15	141	15	139	15	133	20	119	30	-	-
650	6F022	142	20	142	20	141	20	138	20	132	30	-	-
650	1F036	223	7.5	211	10	178	15	-	-	-	-	-	-
650	2F036	223	15	220	15	211	20	178	30	-	-	-	-
600	4F036	206	20	205	25	203	25	194	30	-	-	-	-
600	6G036	206	30	206	30	205	30	202	40	195	50	-	-
600	1F050	300	7.5	316	15	267	20	-	-	-	-	-	-
600	2F050	300	10	330	25	317	25	267	40	-	-	-	-
600	4F050	280	15	308	60	305	30	291	40	-	-	-	-
600	6G050	280	20	309	40	308	40	303	50	293	60	-	-
575	1G065	368	15	346	20	278	25	-	-	-	-	-	-
575	2G065	368	20	362	20	346	30	278	50	-	-	-	-
500	4G065	320	30	319	30	316	30	299	50	-	-	-	-
450	6H065	288	40	287	40	283	40	279	50	260	75	-	-
575	1G090	552	20	519	25	417	30	-	-	-	-	-	-
575	2G090	552	20	543	25	519	40	417	60	-	-	-	-
500	4G090	480	30	479	30	474	40	449	75	-	-	-	-
450	6H090	432	40	431	30	425	50	419	75	390	90	-	-
500	1H115	563	20	537	25	482	40	-	-	-	-	-	-
500	2H115	563	25	555	30	538	40	482	75	-	-	-	-
450	4H115	507	50	504	50	499	50	482	75	-	-	-	-
400	6J115	450	50	449	60	447	60	438	75	420	100	-	-
450	1J175	748	25	711	40	633	60	-	-	-	-	-	-
450	2J175	748	40	737	50	713	60	632	100	-	-	-	-
400	4J175	665	60	662	60	655	75	630	100	-	-	-	-
400	6K175	665	75	663	75	660	100	648	125	621	175	-	-
400	1J220	900	60	850	35	675	60	-	-	-	-	-	-
400	2J220	900	120	850	70	675	110	-	-	-	-	-	-
400	1J345	1122	30	1067	50	950	75	-	-	-	-	-	-
400	2J345	1122	40	1105	60	1070	75	948	150	-	-	-	-
400	3J345	998	50	993	75	983	100	940	150	-	-	-	-
400	3K345	998	50	993	75	983	100	940	150	-	-	-	-
400	4K345	998	60	995	100	990	120	972	150	-	-	-	-
300	1K345	985	30	907	50	744	75	-	-	-	-	-	-
300	2K345	985	60	961	60	912	100	742	150	-	-	-	-
300	3K345	985	75	973	75	947	100	863	150	-	-	-	-
300	1K620	1860	75	1700	100	1200	150	-	-	-	-	-	-
300	2K620	1860	100	1810	100	1700	150	-	-	-	-	-	-
300	1K800	2418	100	2210	125	1560	150	-	-	-	-	-	-
300	2K800	2418	125	2210	125	1560	175	-	-	-	-	-	-

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Element: 008

Models: 1E08, 2E08, 4E08 & 6E08

Use appropriate HP and pressure scales for the number of stages required.

NOTE: Pressure limits rated at 87 psi/stage (70 Duro.) Some models have additional limits. Please consult factory before making final selection.

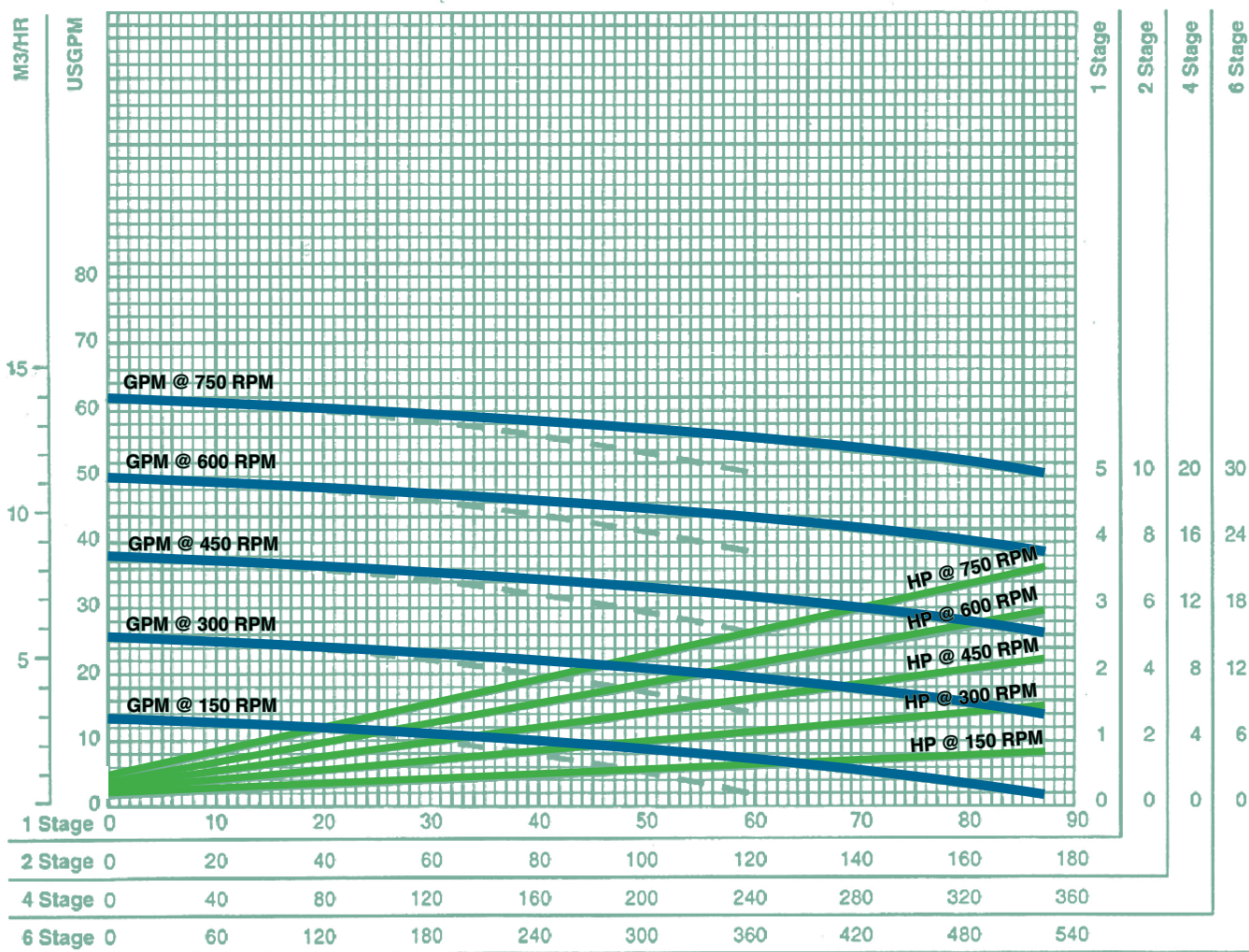
	RPM	150	300	450	600	750
NPSH Required — (Ft.)		1	2	3	4	6
Minimum Recommended Motor HP	1 STG	1	2	3	3	5
	2 STG	1½	3	5	5	7½
	4 STG	3	5	7½	10	10
	6 STG	5	7½	10	15	15
Drive End HP Must be added to HP value from curve.	E	0.24	0.48	0.72	0.96	1.20
	F	0.38	0.76	1.14	1.52	1.90

Capacity

———— 70 Durometer - - - 55 Durometer

Data Based on Water @ 68° F

Horsepower



Differential Pressure (PSI)*

*(PSI x .069 = BAR) (PSI x .070 = kgf/cm²) (USGPM x .2271 = M³/HR) (HP x .746 = kW)

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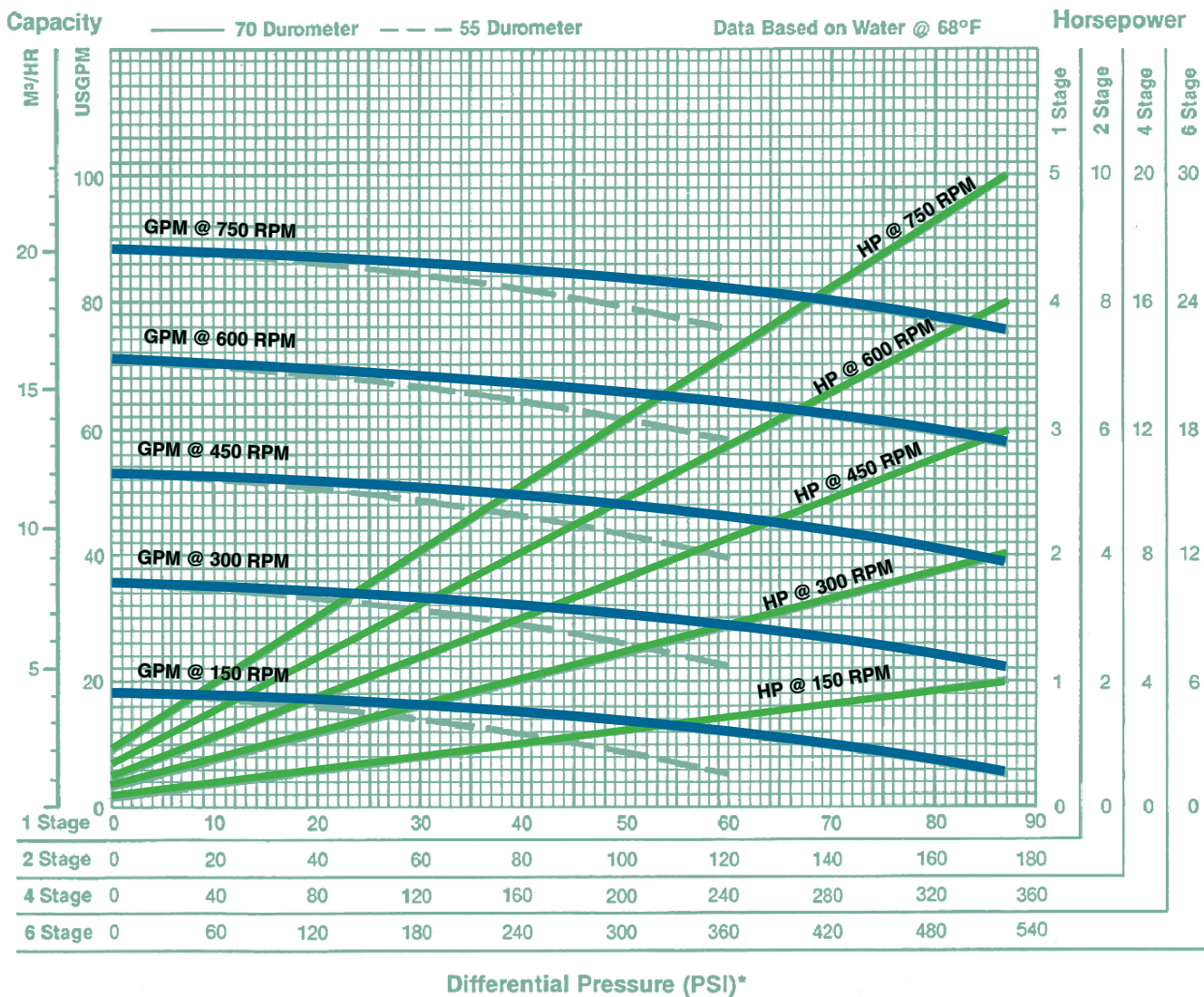
Element: 012

Models: 1E012, 2E012, 4E012
6F012

Use appropriate HP and pressure scales for the number of stages required.

NOTE: Pressure limits rated at 87 psi/stage (70 Duro.) Some models have additional limits. Please consult factory before making final selection.

	RPM	150	300	450	600	750
NPSH Required — (Ft.)		1.10	2.20	3.30	5.00	7.70
Minimum Recommended Motor HP	1 STG	1	2	3	3	5
	2 STG	1½	3	5	5	7½
	4 STG	3	5	7½	10	10
	6 STG	5	7½	10	15	15
Drive End HP Must be added to HP value from curve.	E	0.24	0.48	0.72	0.96	1.20
	F	0.38	0.76	1.14	1.52	1.90



*(PSI × .069 = BAR) (PSI × .070 = kgf/cm²) (USGPM × .2271 = M³/HR) (HP × .746 = kW)

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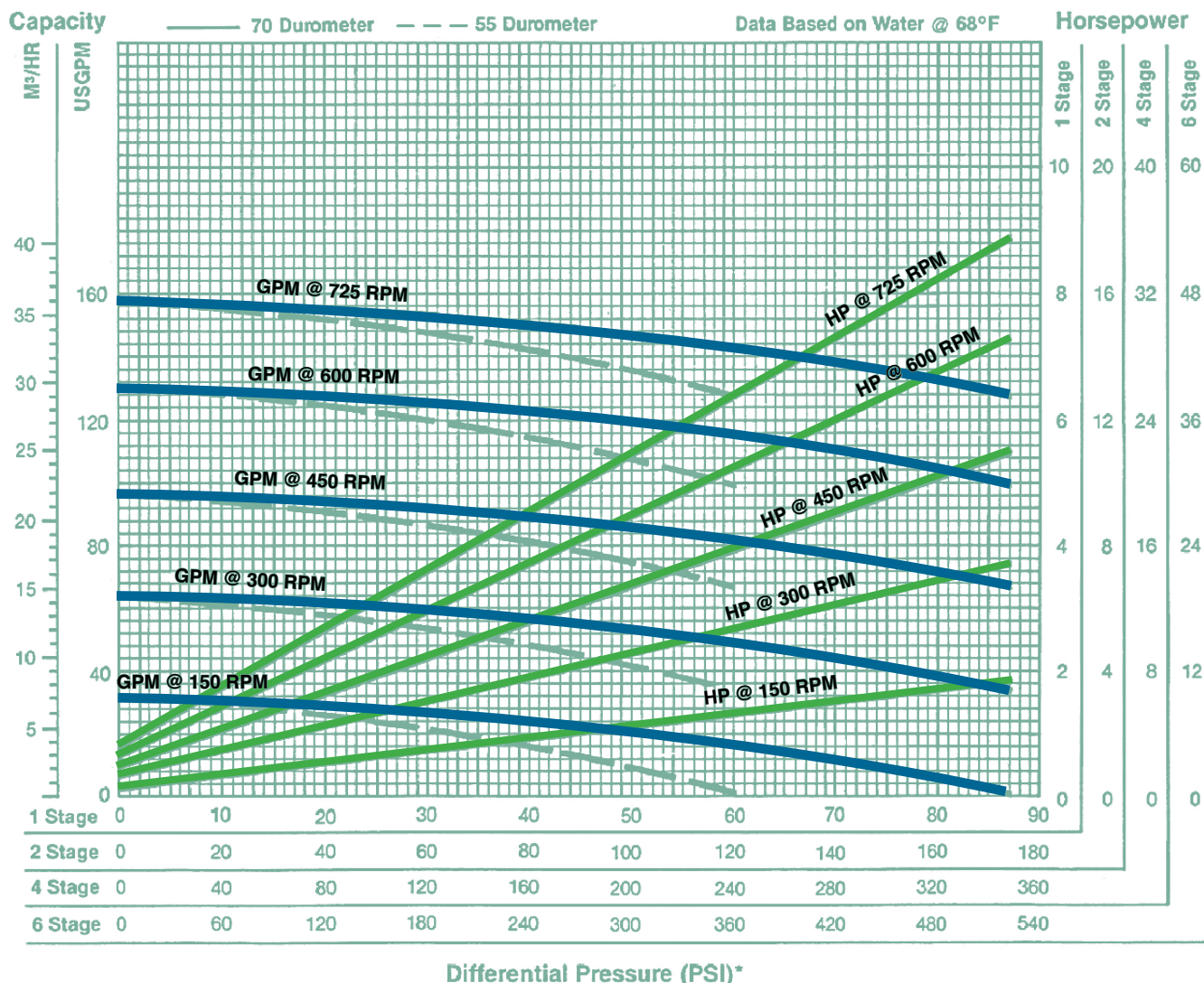
Element: 022

Models: 1E022, 2E022, 4E022
4F022, 6F022, 6G022

Use appropriate HP and pressure scales for the number of stages required.

NOTE: Pressure limits rated at 87 psi/stage (70 Duro.) Some models have additional limits. Please consult factory before making final selection.

	RPM	150	300	450	600	725
NPSH Required — (Ft.)		1.30	2.60	3.90	7.10	9.80
Minimum Recommended Motor HP	1 STG	1½	3	5	5	7½
	2 STG	2	5	7½	7½	10
	4 STG	3	7½	10	15	15
	6 STG	5	10	15	20	20
Drive End HP Must be added to HP value from curve.	E	0.24	0.48	0.72	0.96	1.16
	F	0.38	0.76	1.14	1.50	1.80
	G	0.53	1.10	1.60	2.20	2.50



*(PSI × .069 = BAR) (PSI × .070 = kgf/cm²) (USGPM × .2271 = M³/HR) (HP × .746 = kW)

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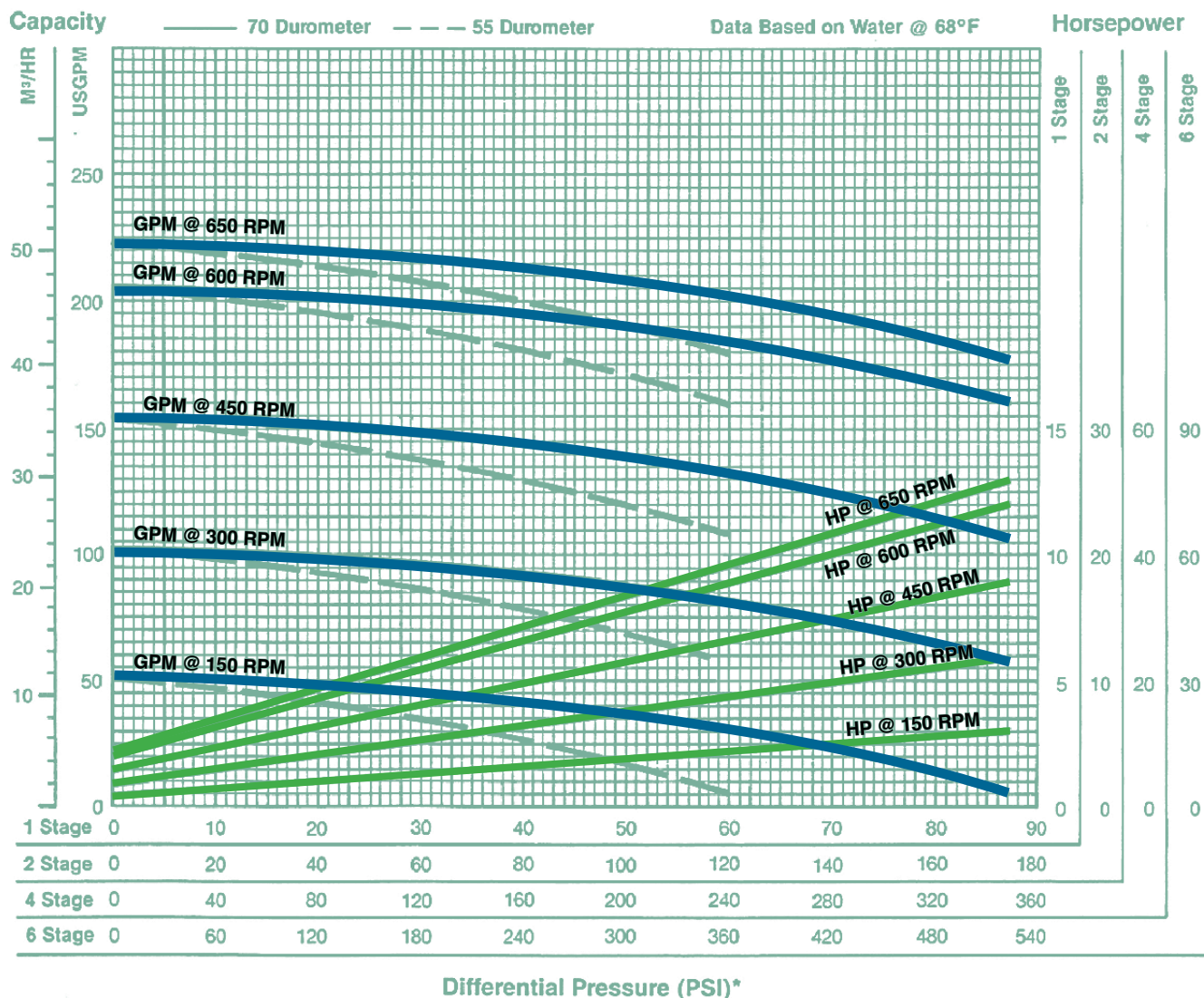
Element: 036

Models: 1E036, 2E036, 2F036, 4F036
4G036, 6G036, 6H036

Use appropriate HP and pressure scales for the number of stages required.

NOTE: Pressure limits rated at 87 psi/stage (70 Duro.) Some models have additional limits. Please consult factory before making final selection.

RPM		150	300	450	600	650
NPSH Required — (Ft.)		1.50	3.10	5.60	9.50	10.80
Minimum Recommended Motor HP	1 STG	3	5	7½	10	10
	2 STG	5	7½	10	15	15
	4 STG	7½	15	20	25	25
	6 STG	10	20	25	30	40
Drive End HP Must be added to HP value from curve.	E	0.24	0.48	0.72	0.96	1.16
	F	0.38	0.76	1.10	1.50	1.70
	G	0.53	1.10	1.60	2.20	2.30
	H	0.90	1.70	2.60	3.50	3.80



*(PSI × .069 = BAR) (PSI × .070 = kaf/cm²) (USGPM × .2271 = M³/HR) (HP × .746 = kW)

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Element: 050

Models: 1E050, 2E050, 2F050, 4F050
4G050, 6G050, 6H050

Use appropriate HP and pressure scales for the number of stages required.

NOTE: Pressure limits rated at 87 psi/stage (70 Duro.) Some models have additional limits. Please consult factory before making final selection.

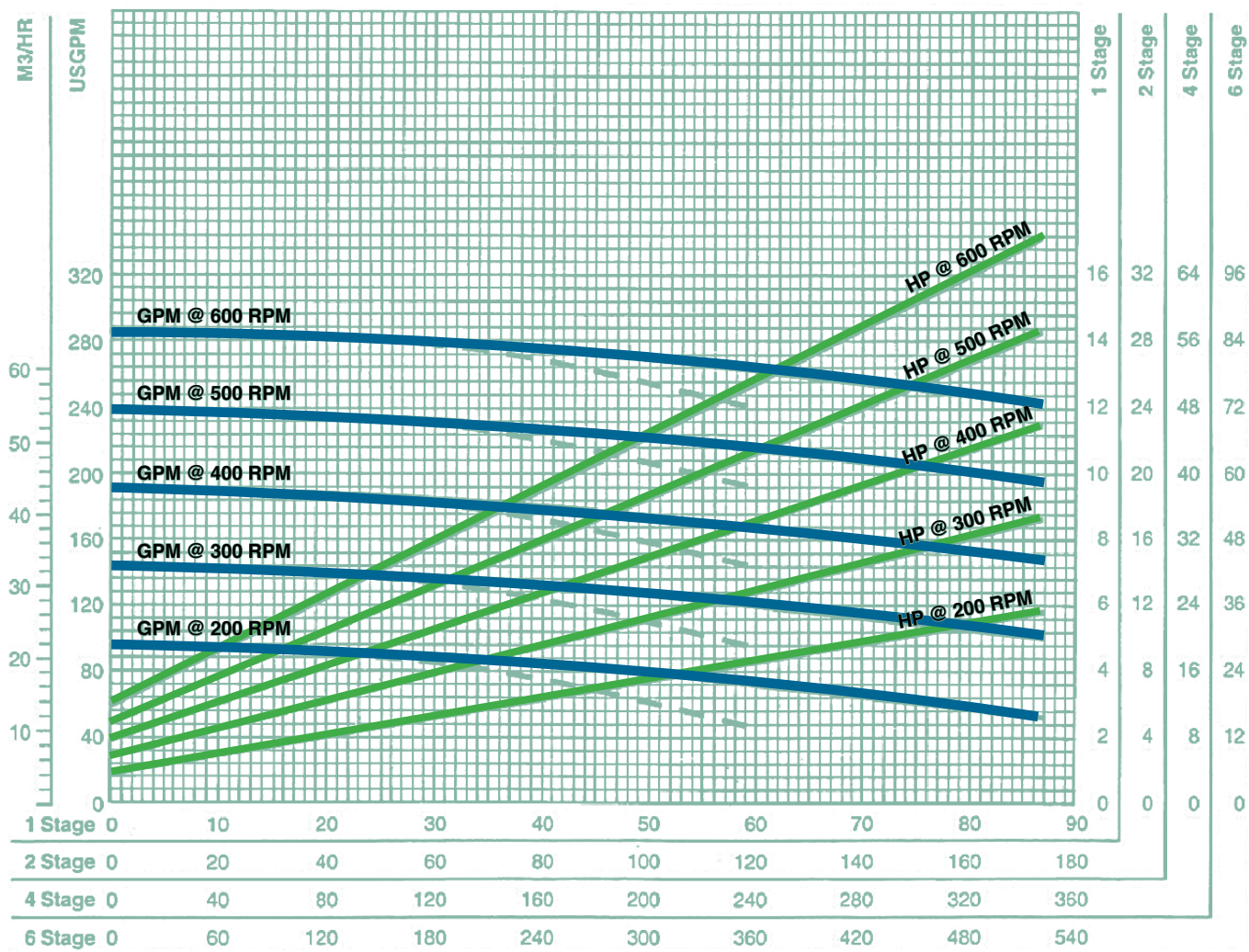
	RPM	200	300	400	500	600
NPSH Required — (Ft.)		2.43	3.65	6.20	9.20	12.20
Minimum Recommended Motor HP	1 STG	2	3	5	5	7½
	2 STG	5	7½	7½	10	15
	4 STG	7½	15	15	20	25
	6 STG	15	20	25	30	40
Drive End HP Must be added to HP value from curve.	E	.32	.48	.64	.80	.96
	F	0.51	0.76	1.01	1.27	1.52
	G	0.73	1.10	1.47	1.83	2.20
	H	1.13	1.70	2.27	2.83	3.40

Capacity

———— 70 Durometer - - - 55 Durometer

Data Based on Water @ 68° F

Horsepower



Differential Pressure (PSI)*

*(PSI x .069 = BAR) (PSI x .070 = kgf/cm²) (USGPM x .2271 = M³/HR) (HP x .746 = kW)

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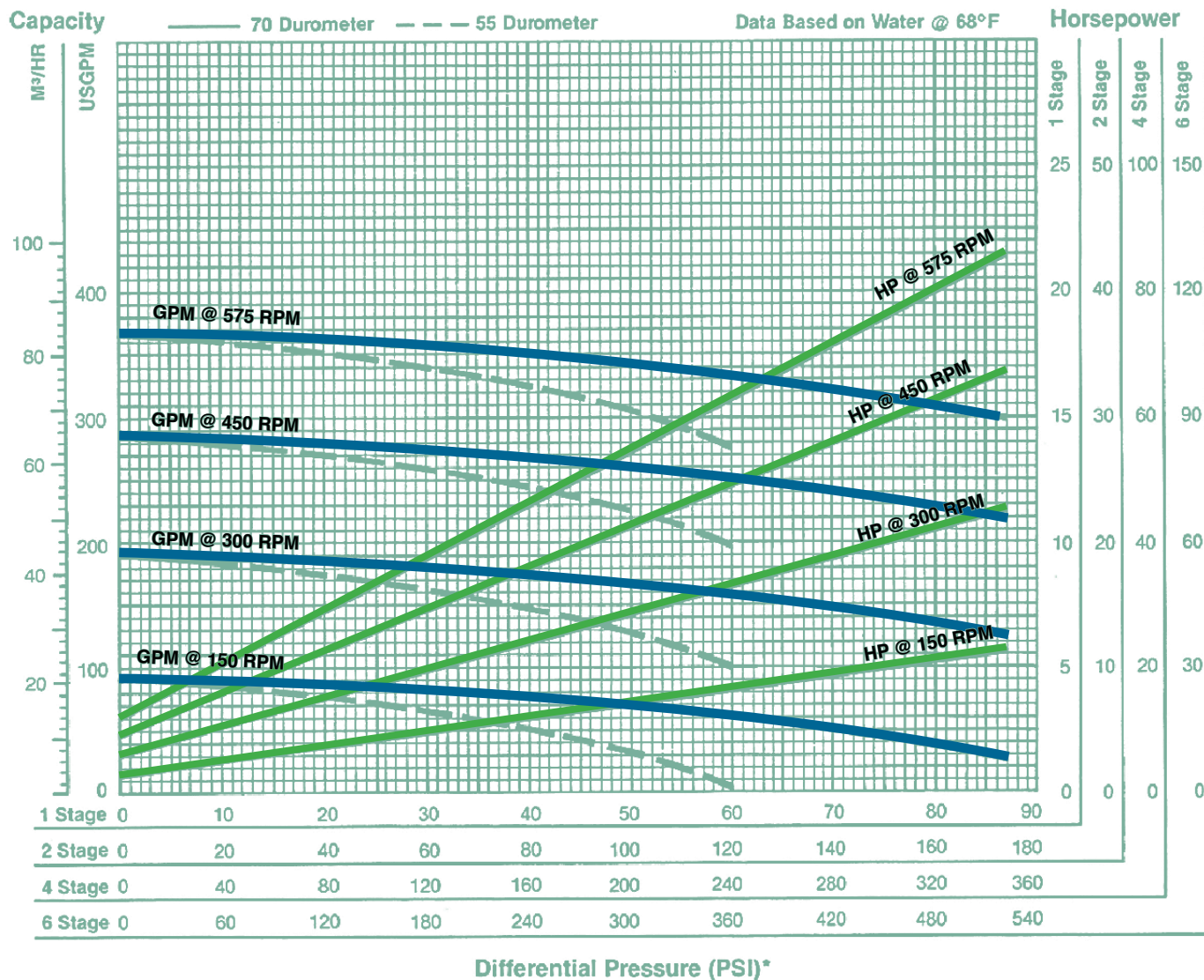
Element: 065

Models: 1F065, 2F065, 2G065, 4G065
4H065, 6H065, 6J065

Use appropriate HP and pressure scales for the number of stages required.

NOTE: Pressure limits rated at 87 psi/stage (70 Duro.) Some models have additional limits. Please consult factory before making final selection.

	RPM	150	300	450	575
	NPSH Required — (Ft.)	1.90	3.80	8.30	12.20
Minimum Recommended Motor HP	1 STG	5	10	15	20
	2 STG	7½	15	20	25
	4 STG	10	20	25	30
	6 STG	15	25	40	50
Drive End HP Must be added to HP value from curve.	F	0.38	0.76	1.10	1.50
	G	0.53	1.10	1.60	2.00
	H	0.90	1.70	2.60	3.30
	J	1.00	2.00	3.00	3.90



*(PSI × .069 = BAR) (PSI × .070 = kgf/cm²) (USGPM × .2271 = M³/HR) (HP × .746 = kW)

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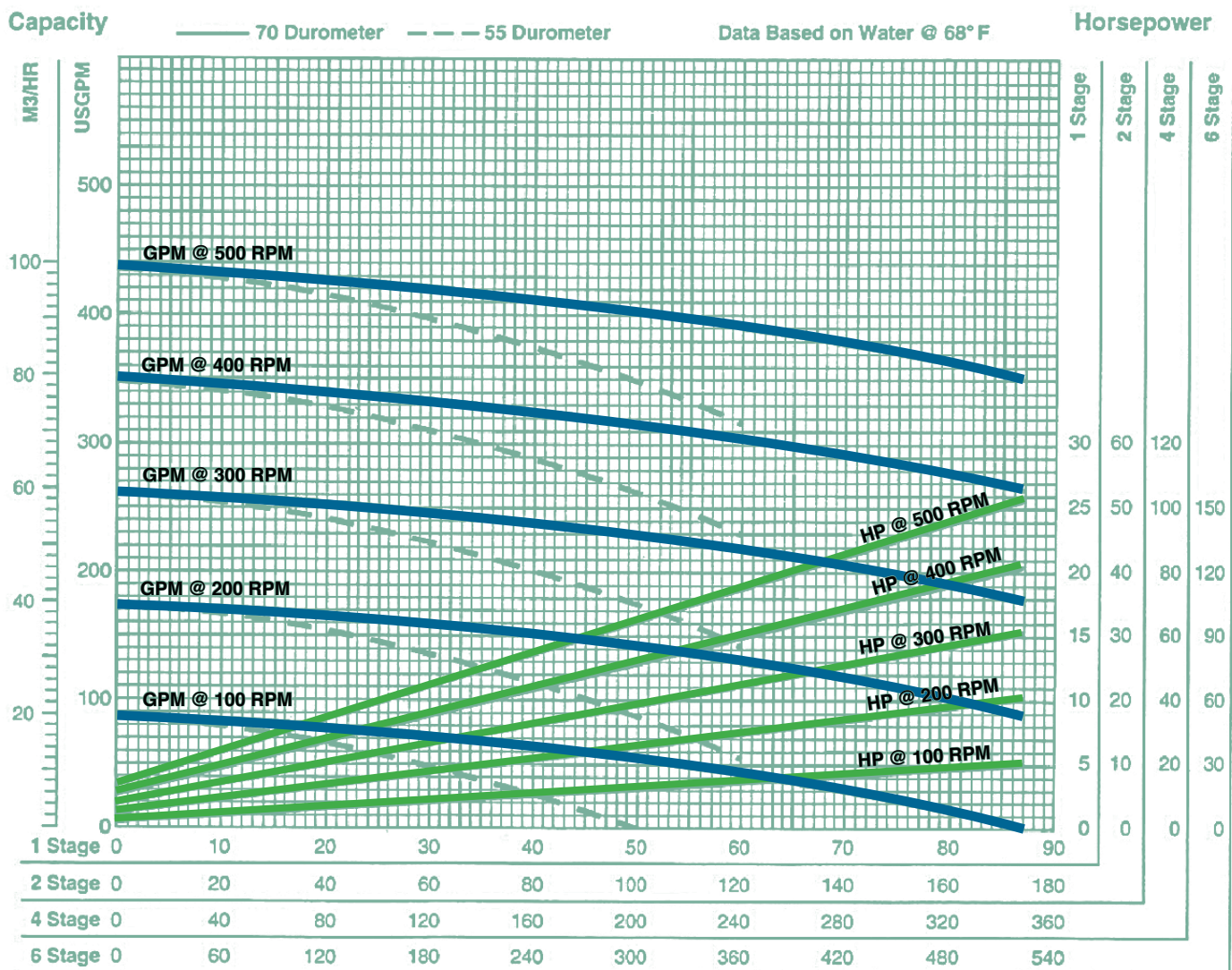
Element: 090

Models: 1F090, 2F090, 2G090
4G090, 4H090, 6J090

Use appropriate HP and pressure scales for the number of stages required.

NOTE: Pressure limits rated at 87 psi/stage (70 Duro.) Some models have additional limits. Please consult factory before making final selection.

	RPM	100	200	300	400	500
NPSH Required — (Ft.)		1.5	3.0	5.0	9.0	12.0
Minimum Recommended Motor HP	1 STG	3	5	7½	10	10
	2 STG	5	7½	15	15	20
	4 STG	7½	15	25	30	40
	6 STG	15	30	40	50	60
Drive End HP Must be added to HP value from curve.	F	.26	.51	.76	1.01	1.27
	G	0.37	0.73	1.10	1.47	1.83
	H	0.57	1.13	1.70	2.27	2.83
	J	0.67	1.33	2.00	2.67	3.33



Differential Pressure (PSI)*

*(PSI x .069 = BAR) (PSI x .070 = kgf/cm²) (USGPM x .2271 = M³/HR) (HP x .746 = kW)

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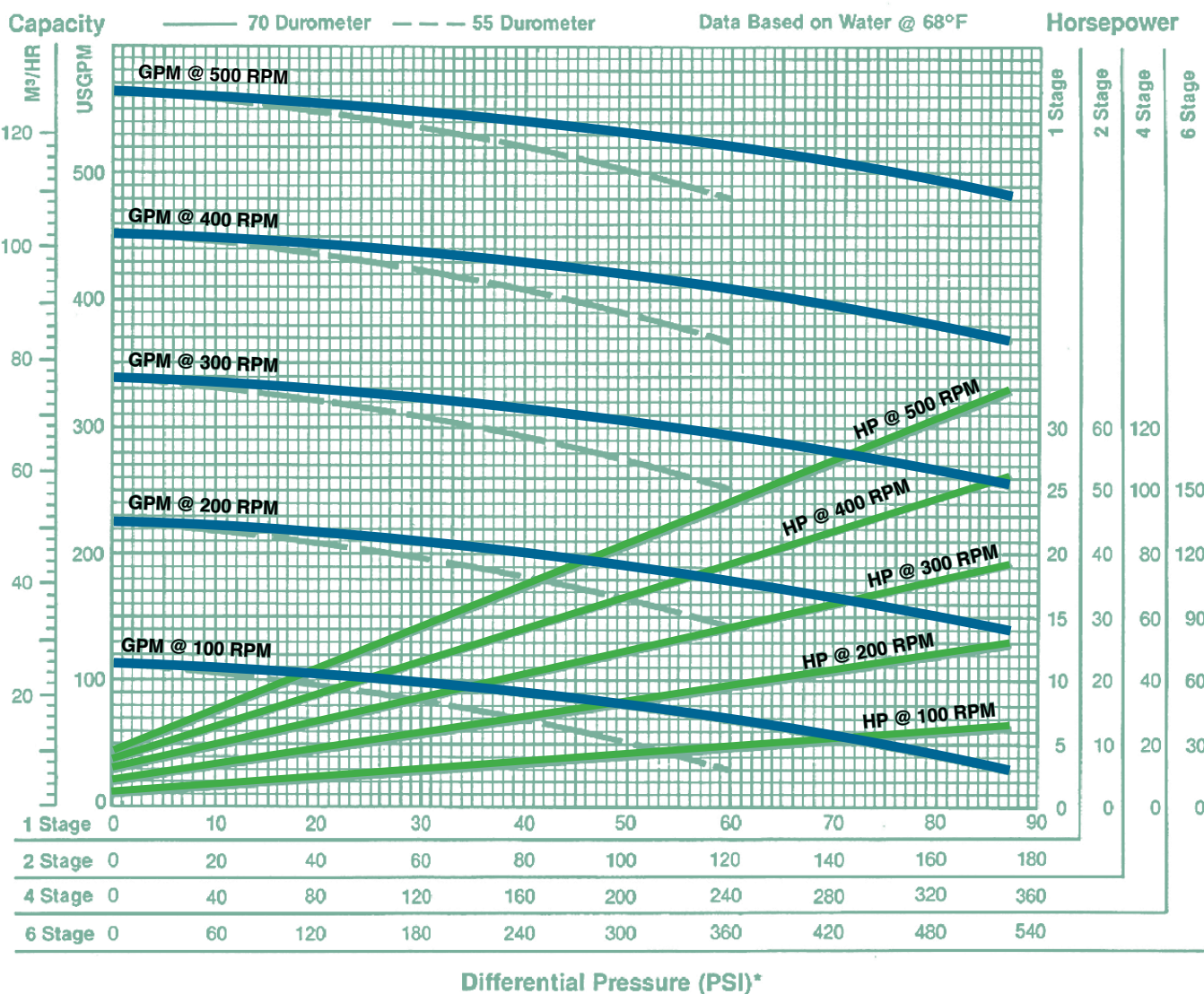
Element: 115

Models: 1G115, 2G115, 2H115, 4H115
4J115, 6J115, 6K115

Use appropriate HP and pressure scales for the number of stages required.

NOTE: Pressure limits rated at 87 psi/stage (70 Duro.) Some models have additional limits. Please consult factory before making final selection.

	RPM	100	200	300	400	500
NPSH Required — (Ft.)		1.50	3.10	5.70	9.60	13.40
Minimum Recommended Motor HP	1 STG	5	7½	10	15	20
	2 STG	5	10	15	20	25
	4 STG	7½	15	25	30	40
	6 STG	10	20	30	40	50
Drive End HP Must be added to HP value from curve.	G	0.36	0.72	1.10	1.40	1.80
	H	0.60	1.10	1.70	2.30	2.80
	J	0.70	1.40	2.00	2.70	3.40
	K	1.30	2.60	3.90	5.20	5.90



*(PSI × .069 = BAR) (PSI × .070 = kg/cm²) (USGPM × .2271 = M³/HR) (HP × .746 = kW)

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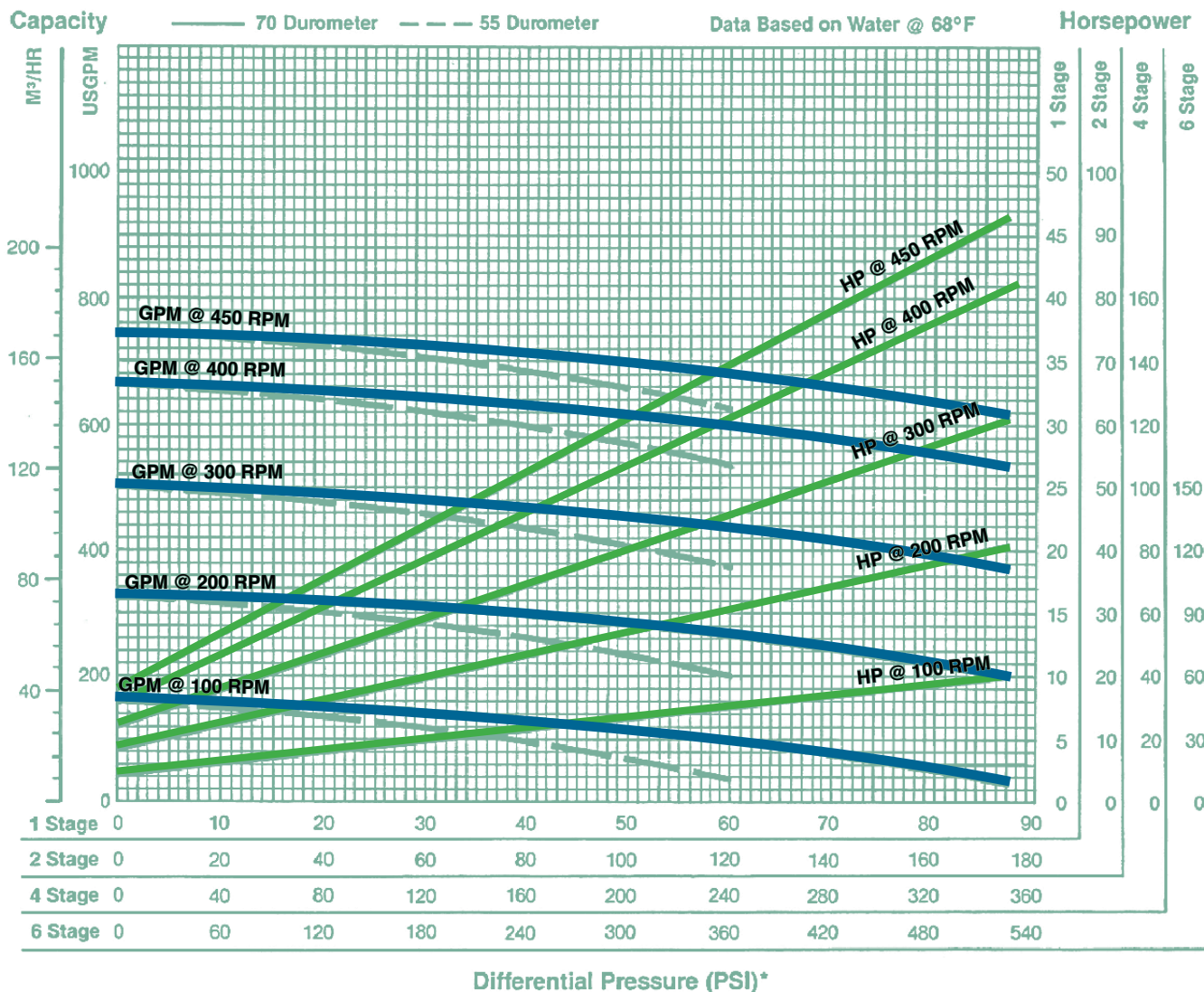
Element: 175

Models: 1H175, 2H175, 2J175
4J175, 4K175, 6K175

Use appropriate HP and pressure scales for the number of stages required.

NOTE: Pressure limits rated at 87 psi/stage (70 Duro.) Some models have additional limits. Please consult factory before making final selection.

	RPM	100	200	300	400	500
NPSH Required — (Ft.)		1.70	3.50	7.40	11.80	14.10
Minimum Recommended Motor HP	1 STG	7½	15	20	25	30
	2 STG	10	20	25	40	40
	4 STG	15	30	40	60	60
	6 STG	20	40	60	75	75
Drive End HP Must be added to HP value from curve.	H	0.60	1.10	1.70	2.30	2.80
	J	0.70	1.40	2.00	2.70	3.40
	K	1.30	2.60	3.90	5.20	5.90



*(PSI × .069 = BAR) (PSI × .070 = kgf/cm²) (USGPM × .2271 = M³/HR) (HP × .746 = kW)

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Element: 345

Models: 1J345, 2J345, 2K345
3K345, 4K345

Use appropriate HP and pressure scales for the number of stages required.

NOTE: Pressure limits rated at 87 psi/stage (70 Duro.) Some models have additional limits. Please consult factory before making final selection.

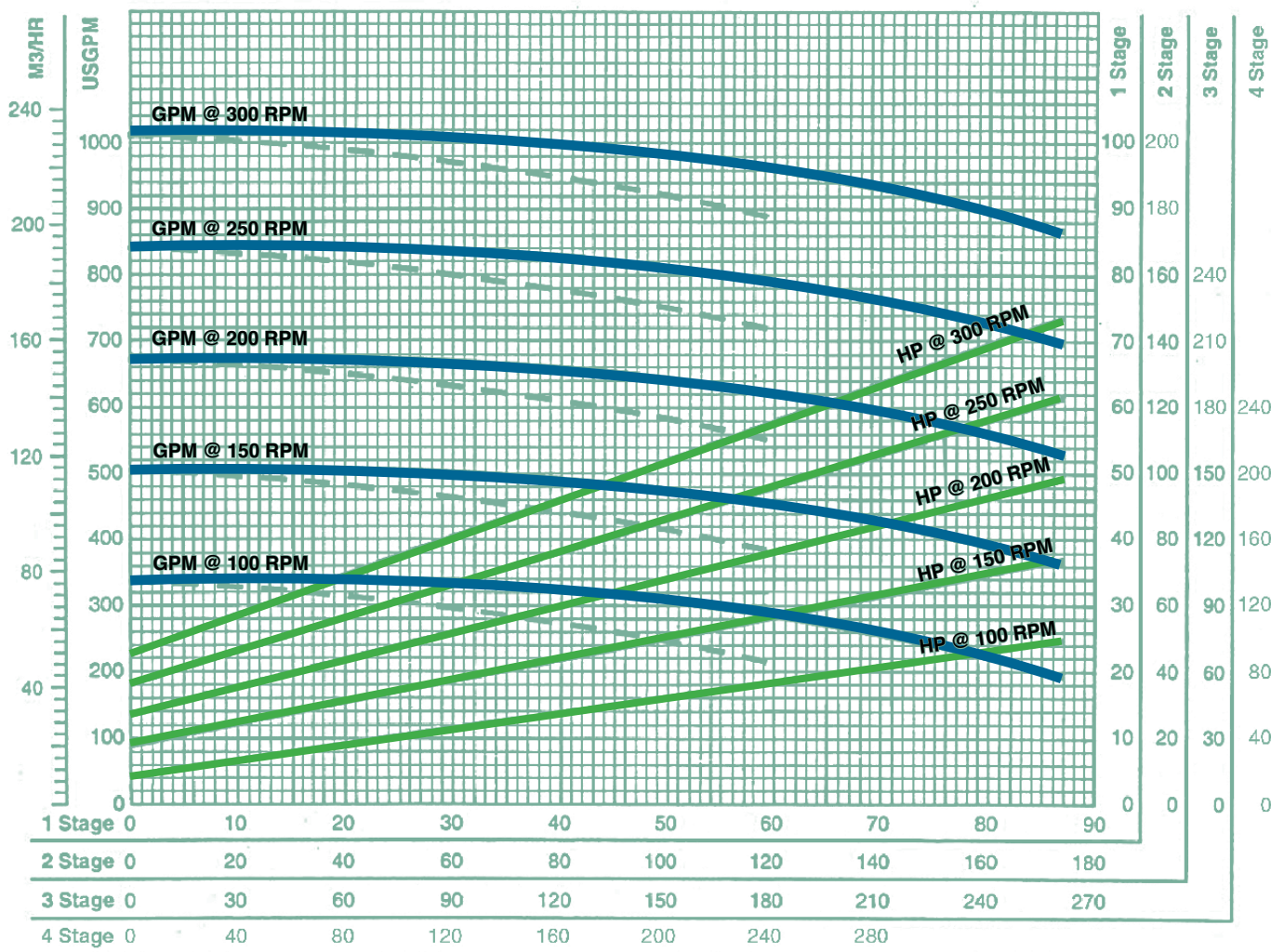
	RPM	100	150	200	250	300
NPSH Required — (Ft.)		3	4	8	10	14
Minimum Recommended Motor HP	1 STG	10	15	20	25	30
	2 STG	15	20	30	40	50
	3 STG	25	40	50	60	75
	4 STG	30	40	60	75	100
Drive End HP Must be added to HP value from curve.	J	0.70	1.05	1.40	1.75	2.00
	K	1.30	1.95	2.60	3.25	3.90

Capacity

—— 70 Durometer — — — 55 Durometer

Data Based on Water @ 68°F

Horsepower



Differential Pressure (PSI)*

*(PSI x .069 = BAR) (PSI x .070 = kgf/cm²) (USGPM x .2271 = M³/HR) (HP x .746 = kW)

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Element: 620

Models: 1K620, 2K620

Use appropriate HP and pressure scales for the number of stages required.

NOTE: Pressure limits rated at 87 psi/stage (70 Duro.) Some models have additional limits. Please consult factory before making final selection.

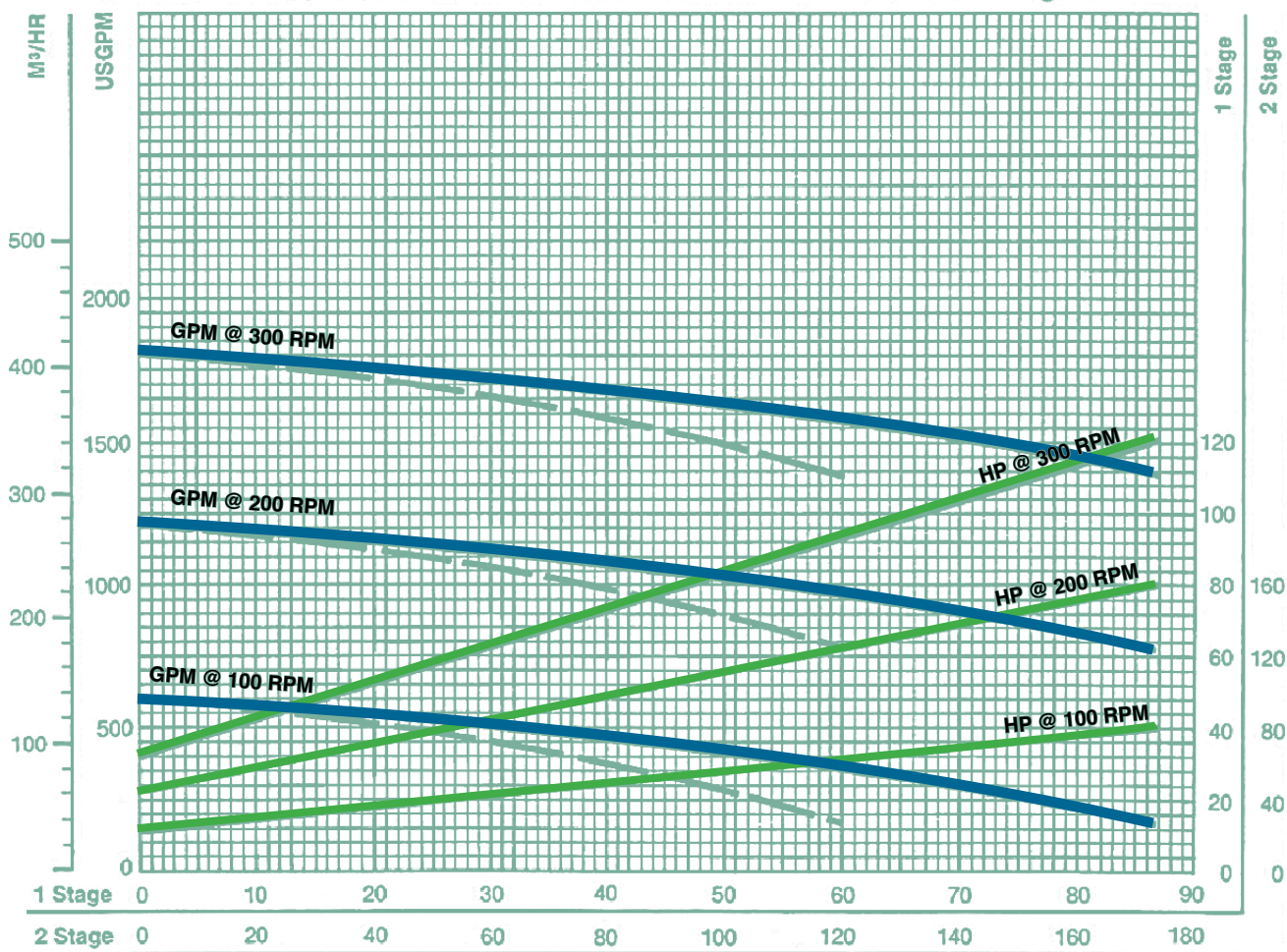
	RPM	100	200	300
NPSH Required — (Ft.)		6.00	18.00	30.00
Minimum Recommended Motor HP	1 STG	25	50	75
	2 STG	60	75	100
Drive End HP	K	1.30	2.60	3.90
Must be added to HP value from curve.				

Capacity

—— 70 Durometer — — — 55 Durometer

Data Based on Water @ 68°F

Horsepower



Differential Pressure (PSI)*

*(PSI × .069 = BAR) (PSI × .070 = kgf/cm²) (USGPM × .2271 = M³/HR) (HP × .746 = kW)

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Element: 800

Models: 1K800, 2K800

Use appropriate HP and pressure scales for the number of stages required.

NOTE: Pressure limits rated at 87 psi/stage (70 Duro.) Some models have additional limits. Please consult factory before making final selection.

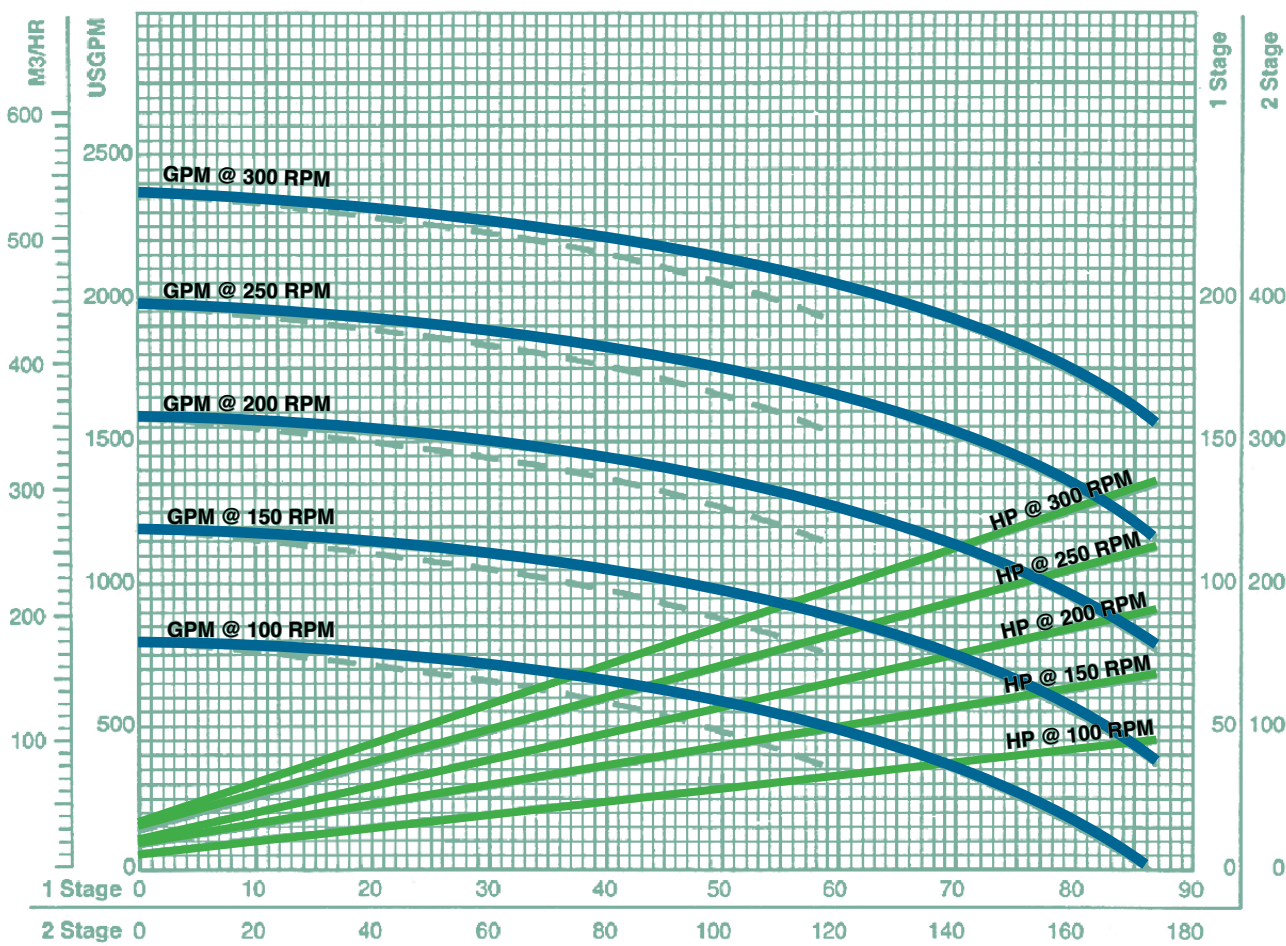
	RPM	100	150	200	250	300
NPSH Required — (Ft.)		3.2	6.3	10.4	14.5	20.0
Minimum Recommended Motor HP	1 STG	20	30	40	50	60
	2 STG	40	60	80	100	120
Drive End HP	K	1.30	1.95	2.60	3.25	3.90
Must be added to HP value from curve.						

Capacity

—— 70 Durometer - - - 55 Durometer

Data Based on Water @ 68° F

Horsepower



Differential Pressure (PSI)*

*(PSI x .069 = BAR) (PSI x .070 = kgf/cm²) (USGPM x .2271 = M³/HR) (HP x .746 = kW)

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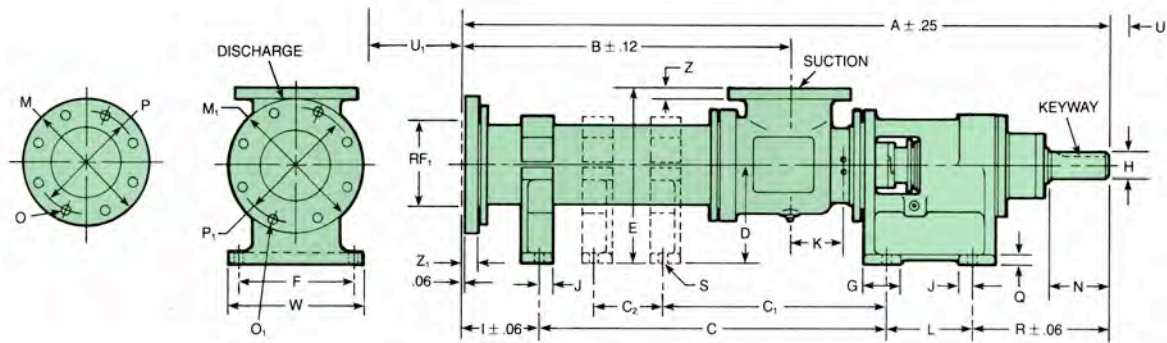
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CK 2000 SERIES DIMENSIONS

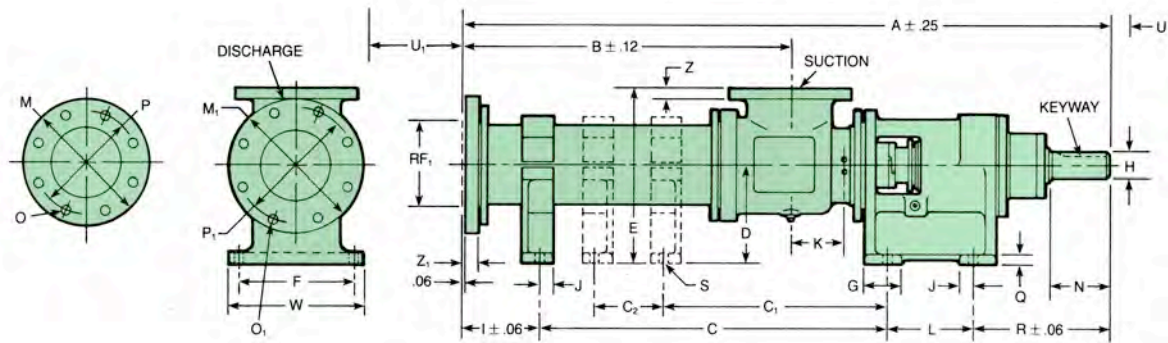
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MODEL NO.	STANDARD PUMP DIMENSIONS (INCHES)																	
	A	B	C	C1	C2	D	E	F	G	H	I	J	K	L	Q	R	S	W
1E008	38.88	13.00	16.75	—	—	6.00	11.50	6.50	3.12	1.88	4.69	1.12	4.75	5.50	0.75	11.94	0.88	8.00
2E008	47.00	21.12	20.00	—	—	6.00	11.50	6.50	3.12	1.88	9.56	1.12	4.75	5.50	0.75	11.94	0.88	8.00
4E008	63.50	37.62	36.00	18.00	—	6.00	11.50	6.50	3.12	1.88	10.06	1.12	4.75	5.50	0.75	11.94	0.88	8.00
6E008	79.50	53.62	48.00	30.00	—	6.00	11.50	6.50	3.12	1.88	14.06	1.12	4.75	5.50	0.75	11.94	0.88	8.00
1E012	42.00	16.12	18.00	—	—	6.00	11.50	6.50	3.12	1.88	6.56	1.12	4.75	5.50	0.75	11.94	0.88	8.00
2E012	53.12	27.25	22.00	—	—	6.00	11.50	6.50	3.12	1.88	13.69	1.12	4.75	5.50	0.75	11.94	0.88	8.00
4E012	75.62	49.75	48.00	18.00	—	6.00	11.50	6.50	3.12	1.88	10.19	1.12	4.75	5.50	0.75	11.94	0.88	8.00
6E012	97.88	72.00	70.00	30.00	—	6.00	11.50	6.50	3.12	1.88	10.44	1.12	4.75	5.50	0.75	11.94	0.88	8.00
1E022	43.31	17.19	18.00	—	—	6.00	12.50	6.50	3.12	1.88	7.88	1.12	5.00	5.50	0.75	11.94	0.88	8.00
2E022	56.19	30.06	27.00	—	—	6.00	12.50	6.50	3.12	1.88	11.75	1.12	5.00	5.50	0.75	11.94	0.88	8.00
4E022	82.94	56.81	56.00	20.00	—	6.00	12.50	6.50	3.12	1.88	9.50	1.12	5.00	5.50	0.75	11.94	0.88	8.00
6F012	102.38	72.50	67.00	27.00	—	7.00	13.50	8.50	3.62	2.12	15.62	1.25	6.12	6.75	1.00	13.00	0.88	10.00
4F022	86.69	56.81	56.00	20.00	—	7.00	13.50	8.50	3.62	2.12	10.06	1.25	6.12	6.75	1.00	13.00	0.88	10.00
6F022	112.19	82.31	80.00	20.00	30.00	7.00	13.50	8.50	3.62	2.12	12.44	1.25	6.12	6.75	1.00	13.00	0.88	10.00
1F036	48.62	19.62	21.00	—	—	7.00	14.00	8.50	3.62	2.12	7.88	1.25	5.25	6.75	1.00	13.00	0.88	10.00
2F036	63.12	34.12	29.00	—	—	7.00	14.00	8.50	3.62	2.12	14.38	1.25	5.25	6.75	1.00	13.00	0.88	10.00
4F036	92.12	63.12	59.00	29.00	—	7.00	14.00	8.50	3.62	2.12	13.38	1.25	5.25	6.75	1.00	13.00	0.88	10.00
1F050	53.94	24.94	24.00	—	—	7.00	14.00	8.50	3.62	2.12	10.19	1.25	5.25	6.75	1.00	13.00	0.88	10.00
2F050	73.75	44.75	45.00	20.00	—	7.00	14.00	8.50	3.62	2.12	9.00	1.25	5.25	6.75	1.00	13.00	0.88	10.00
4F050	113.50	84.50	77.00	48.00	—	7.00	14.00	8.50	3.62	2.12	16.75	1.25	5.25	6.75	1.00	13.00	0.88	10.00
6G022	116.88	84.75	72.00	36.00	—	9.00	16.00	9.50	4.00	2.38	22.62	1.50	5.62	7.75	1.00	14.50	0.88	11.50
4G036	97.06	64.94	60.00	30.00	—	9.00	16.00	9.50	4.00	2.38	14.81	1.50	5.62	7.75	1.00	14.50	0.88	11.50
6G036	125.81	93.69	90.00	30.00	30.00	9.00	16.00	9.50	4.00	2.38	13.56	1.50	5.62	7.75	1.00	14.50	0.88	11.50
4G050	118.44	86.31	78.00	48.00	—	9.00	16.00	9.50	4.00	2.38	18.19	1.50	5.62	7.75	1.00	14.50	0.88	11.50
6G050	158.19	126.06	112.00	30.00	46.00	9.00	16.00	9.50	4.00	2.38	13.94	1.50	5.62	7.75	1.00	14.50	0.88	11.50
1G065	56.88	23.75	26.00	—	—	9.00	17.50	9.50	4.00	2.38	8.62	1.50	6.62	7.75	1.00	14.50	0.88	11.50
2G065	74.75	41.62	34.00	—	—	9.00	17.50	9.50	4.00	2.38	18.50	1.50	6.62	7.75	1.00	14.50	0.88	11.50
4G065	110.50	77.38	70.00	34.00	—	9.00	17.50	9.50	4.00	2.38	18.25	1.50	6.62	7.75	1.00	14.50	0.88	11.50
1G090	63.38	30.25	26.00	—	—	9.00	17.50	9.50	4.00	2.38	15.12	1.50	6.62	7.75	1.00	14.50	0.88	11.50
2G090	87.88	54.75	56.00	26.00	—	9.00	17.50	9.50	4.00	2.38	9.62	1.50	6.62	7.75	1.00	14.50	0.88	11.50
6H065	150.62	115.00	115.00	35.00	40.00	11.00	19.50	13.00	4.00	2.88	11.00	1.50	6.75	9.50	1.12	15.12	1.00	15.00
4H090	141.50	105.88	102.00	30.00	36.00	11.00	19.50	13.00	4.00	2.88	14.88	1.50	6.75	9.50	1.12	15.12	1.00	15.00
6H090	182.40	146.70	147.80	27.50	40.10	11.00	19.5	13.00	4.00	2.88	10.40	1.50	6.75	8.90	1.12	15.40	1.00	15.00
1H115	66.50	30.88	30.00	—	—	11.00	19.50	13.00	4.00	2.88	11.88	1.50	6.75	9.50	1.12	15.12	1.00	15.00
2H115	89.88	54.25	54.00	30.00	—	11.00	19.50	13.00	4.00	2.88	11.25	1.50	6.75	9.50	1.12	15.12	1.00	15.00
4H115	136.62	101.00	102.00	30.00	36.00	11.00	19.50	13.00	4.00	2.88	10.00	1.50	6.75	9.50	1.12	15.12	1.00	15.00
4J115	141.88	102.00	102.00	30.00	36.00	11.00	19.50	13.00	4.00	3.38	11.88	1.50	7.44	12.00	1.12	16.00	1.00	15.00
6J115	188.62	148.75	140.00	30.00	55.00	11.00	19.50	13.00	4.00	3.38	20.62	1.50	7.44	12.00	1.12	16.00	1.00	15.00
1J175	74.75	33.88	30.00	—	—	11.00	21.50	13.00	4.00	3.38	16.75	1.50	8.44	12.00	1.12	16.00	1.00	15.00
2J175	101.38	60.50	60.00	30.00	—	11.00	21.50	13.00	4.00	3.38	13.38	1.50	8.44	12.00	1.12	16.00	1.00	15.00
4J175	154.62	113.75	110.00	30.00	40.00	11.00	21.50	13.00	4.00	3.38	16.62	1.50	8.44	12.00	1.12	16.00	1.00	15.00
1J345	94.30	53.50	49.50	—	—	11.00	21.50	13.00	4.00	3.38	16.70	1.50	8.44	12.00	1.12	16.00	1.00	15.00
2J345	140.21	99.48	84.00	42.00	42.00	11.00	21.50	13.00	4.00	3.38	28.20	1.50	8.44	12.00	1.12	16.00	1.00	15.00
4K175	167.19	117.38	117.25	37.25	40.00	13.00	23.50	14.50	4.12	3.88	14.12	1.62	9.19	15.00	1.25	20.81	1.00	17.00
6K175	220.19	170.38	157.25	37.25	60.00	13.00	23.50	14.50	4.12	3.88	27.12	1.62	9.19	15.00	1.25	20.81	1.00	17.00
3K345	198.31	148.50	142.00	42.00	50.00	13.00	23.50	14.50	4.12	3.88	20.50	1.62	9.19	15.00	1.25	20.81	1.00	17.00
4K345	245.20	195.40	181.50	36.00	86.00	13.00	23.50	14.50	4.20	3.88	27.77	1.62	9.19	15.00	1.25	20.81	1.00	17.00
1K620	140.19	90.38	84.00	42.00	—	13.00	23.50	14.50	4.12	3.88	20.38	1.62	9.19	15.00	1.25	20.81	1.00	17.00
2K620	220.81	171.00	162.00	42.00	60.00	13.00	23.50	14.50	4.12	3.88	23.00	1.62	9.19	15.00	1.25	20.81	1.00	17.00
1K800	131.62	80.75	86.00	46.00	—	13.00	23.50	14.50	4.12	3.88	9.75	1.62	9.19	15.00	1.25	20.81	1.00	17.00
2K800	190.44	139.62	146.00	46.00	50.00	13.00	23.50	14.50	4.12	3.88	8.62	1.62	9.19	15.00	1.25	20.81	1.00	17.00



MODEL NO.	SUCTION FLANGE DATA (INCHES)					DISCHARGE FLANGE DATA (INCH						DISASSEMBLY DIMENSIONS		DRIVE SHAFT		APPROX. WEIGHT (LBS.)
	SIZE	M	P	Z	O	SIZE	M1	P1	Z1	RF1	O1	U	U1	N	KEYWAY	
1E008	4	9.00	7.50	0.94	0.75 (8)	4	9.00	7.50	1.00		0.625-11 (8)	1.50	7.00	5.50	0.50 x 0.25	360
2E008	4	9.00	7.50	0.94	0.75 (8)	4	9.00	7.50	1.00		0.625-11 (8)	1.50	7.00	5.50	0.50 x 0.25	390
4E008	4	9.00	7.50	0.94	0.75 (8)	4	10.00	7.88	1.25	6.19	0.750-10 (8)	1.50	7.00	5.50	0.50 x 0.25	440
6E008	4	9.00	7.50	0.94	0.75 (8)	4	10.00	7.88	1.25	6.19	0.750-10 (8)	1.50	7.00	5.50	0.50 x 0.25	490
1E012	4	9.00	7.50	0.94	0.75 (8)	4	9.00	7.50	1.00	—	0.625-11 (8)	1.50	7.00	5.50	0.50 x 0.25	360
2E012	4	9.00	7.50	0.94	0.75 (8)	4	9.00	7.50	1.00	—	0.625-11 (8)	1.50	7.00	5.50	0.50 x 0.25	390
4E012	4	9.00	7.50	0.94	0.75 (8)	4	10.00	7.88	1.25	6.19	0.750-10 (8)	1.50	7.00	5.50	0.50 x 0.25	440
6E012	4	9.00	7.50	0.94	0.75 (8)	4	10.00	7.88	1.25	6.19	0.750-10 (8)	1.50	7.00	5.50	0.50 x 0.25	490
1E022	6	11.00	9.50	1.00	0.88 (8)	6	11.00	9.50	1.00	—	0.750-10 (8)	1.50	7.00	5.50	0.50 x 0.25	440
2E022	6	11.00	9.50	1.00	0.88 (8)	6	11.00	9.50	1.00	—	0.750-10 (8)	1.50	7.00	5.50	0.50 x 0.25	520
4E022	6	11.00	9.50	1.00	0.88 (8)	6	11.00	9.50	1.00	—	0.750-10 (8)	1.50	7.00	5.50	0.50 x 0.25	600
6F012	6	11.00	9.50	1.00	0.88 (8)	4	10.75	8.50	1.50	6.19	0.875-9 (8)	1.50	8.00	5.50	0.50 x 0.25	665
4F022	6	11.00	9.50	1.00	0.88 (8)	6	12.50	10.62	1.44	8.50	0.750-10 (12)	1.50	8.00	5.50	0.50 x 0.25	675
6F022	6	11.00	9.50	1.00	0.88 (8)	6	12.50	10.62	1.44	8.50	0.750-10 (12)	1.50	8.00	5.50	0.50 x 0.25	775
1F036	6	11.00	9.50	1.00	0.88 (8)	6	11.00	9.50	1.00	—	0.750-10 (8)	1.50	8.00	5.50	0.50 x 0.25	565
2F036	6	11.00	9.50	1.00	0.88 (8)	6	11.00	9.50	1.00	—	0.750-10 (8)	1.50	8.00	5.50	0.50 x 0.25	715
4F036	6	11.00	9.50	1.00	0.88 (8)	6	11.00	9.50	1.00	—	0.750-10 (8)	1.50	8.00	5.50	0.50 x 0.25	1055
1F050	6	11.00	9.50	1.00	0.88 (8)	6	11.00	9.50	1.00		0.750-10 (8)	1.50	8.00	5.50	0.50 x 0.25	565
2F050	6	11.00	9.50	1.00	0.88 (8)	6	11.00	9.50	1.00		0.750-10 (8)	1.50	8.00	5.50	0.50 x 0.25	715
4F050	6	11.00	9.50	1.00	0.88 (8)	6	11.00	9.50	1.00		0.750-10 (8)	1.50	8.00	5.50	0.50 x 0.25	1055
6G022	6	11.00	9.50	1.00	0.88 (8)	6	14.00	11.50	1.88	8.50	1.00-8 (12)	2.50	7.00	6.00	0.62 x 0.31	975
4G036	6	11.00	9.50	1.00	0.88 (8)	6	12.50	10.62	1.44	8.50	0.750-10 (12)	2.50	7.00	6.00	0.62 x 0.31	1275
6G036	6	11.00	9.50	1.00	0.88 (8)	6	12.50	10.62	1.44	8.50	0.750-10 (12)	2.50	7.00	6.00	0.62 x 0.31	1370
4G050	6	11.00	9.50	1.00	0.88 (8)	6	12.50	10.62	1.44	8.50	0.750-10 (12)	2.50	7.00	6.00	0.62 x 0.31	1275
6G050	6	11.00	9.50	1.00	0.88 (8)	6	12.50	10.62	1.44	8.50	0.750-10 (12)	2.50	7.00	6.00	0.62 x 0.31	1370
1G065	8	13.50	11.75	1.12	0.88 (8)	8	13.50	11.75	1.12	—	0.750-10 (8)	2.50	7.00	6.00	0.62 x 0.31	1125
2G065	8	13.50	11.75	1.12	0.88 (8)	8	13.50	11.75	1.12	—	0.750-10 (8)	2.50	7.00	6.00	0.62 x 0.31	1225
4G065	8	13.50	11.75	1.12	0.88 (8)	8	13.50	11.75	1.12	—	0.750-10 (8)	2.50	7.00	6.00	0.62 x 0.31	1490
1G090	8	13.50	11.75	1.12	0.88 (8)	8	13.50	11.75	1.12		0.750-10 (8)	2.50	7.00	6.00	0.62 x 0.31	1125
2G090	8	13.50	11.75	1.12	0.88 (8)	8	13.50	11.75	1.12		0.750-10 (8)	2.50	7.00	6.00	0.62 x 0.31	1225
6H065	8	13.50	11.75	1.12	0.88 (8)	8	15.00	13.00	1.62	10.62	0.875-9 (12)	2.50	10.00	6.50	0.75 x 0.38	2155
4H090	8	13.50	11.75	1.12	0.88 (8)	8	15.00	13.00	1.62	10.62	0.875-9 (12)	2.50	10.00	6.50	0.75 x 0.38	1900
6H090	8	13.50	11.75	1.12	0.88 (8)	8	15.00	13.00	1.62	10.62	0.750-10 (8)	2.50	10.00	6.50	0.75 x 0.38	2050
1H115	8	13.50	11.75	1.12	0.88 (8)	8	13.50	11.75	1.12	—	0.750-10 (8)	2.50	10.00	6.50	0.75 x 0.38	1700
2H115	8	13.50	11.75	1.12	0.88 (8)	8	13.50	11.75	1.12	—	0.750-10 (8)	2.50	10.00	6.50	0.75 x 0.38	1850
4H115	8	13.50	11.75	1.12	0.88 (8)	8	13.50	11.75	1.12	—	0.750-10 (8)	2.50	10.00	6.50	0.75 x 0.38	2250
4J115	8	13.50	11.75	1.12	0.88 (8)	8	15.00	13.00	1.62	10.62	0.875-9 (12)	2.50	12.00	6.50	0.88 x 0.44	2900
6J115	8	13.50	11.75	1.12	0.88 (8)	8	15.00	13.00	1.62	10.62	0.875-9 (12)	2.50	12.00	6.50	0.88 x 0.44	3100
1J175	10	16.00	14.25	1.25	1.00 (12)	10	16.00	14.25	1.25	—	0.875-9 (12)	2.50	12.00	6.50	0.88 x 0.44	2250
2J175	10	16.00	14.25	1.25	1.00 (12)	10	16.00	14.25	1.25	—	0.875-9 (12)	2.50	12.00	6.50	0.88 x 0.44	2400
4J175	10	16.00	14.25	1.25	1.00 (12)	10	16.00	14.25	1.25	—	0.875-9 (12)	2.50	12.00	6.50	0.88 x 0.44	2800
1J345	10	16.00	14.25	1.25	1.00 (12)	10	16.00	14.25	1.25		0.875-9 (12)	2.50	12.00	6.50	0.88 x 0.44	3000
2J345	10	16.00	14.25	1.25	1.00 (12)	10	16.00	14.25	1.25		0.875-9 (12)	2.50	12.00	6.50	0.88 x 0.44	3300
4K175	10	16.00	14.25	1.25	1.00 (12)	10	17.50	15.25	1.88	12.75	1.00-8 (16)	3.00	13.00	7.50	1.00 x 0.50	3550
6K175	10	16.00	14.25	1.25	1.00 (12)	10	17.50	15.25	1.88	12.75	1.00-8 (16)	3.00	13.00	7.50	1.00 x 0.50	4000
3K345	10	16.00	14.25	1.25	1.00 (12)	10	16.00	14.25	1.25		0.880-9 (12)	3.00	13.00	7.50	1.00 x 0.50	3750
4K345	10	16.00	14.25	1.25	1.00 (12)	10	17.50	15.25	1.88		1.00-8 (16)	3.00	13.00	7.50	1.00 x 0.50	4000
1K620	10	16.00	14.25	1.25	1.00 (12)	10	16.00	14.25	1.25	—	0.875-9 (12)	3.00	13.00	7.50	1.00 x 0.50	3300
2K620	10	16.00	14.25	1.25	1.00 (12)	10	17.50	15.25	1.88	12.75	1.00-8 (16)	3.00	13.00	7.50	1.00 x 0.50	3800
1K800	12	19.00	17.00	1.25	1.00 (12)	14	21.00	18.75	1.62		1.000-8 (12)	3.00	13.00	7.50	1.00 x 0.50	3500
2K800	12	19.00	17.00	1.25	1.00 (12)	14	21.00	18.75	1.62		1.000-8 (12)	3.00	13.00	7.50	1.00 x 0.50	4000

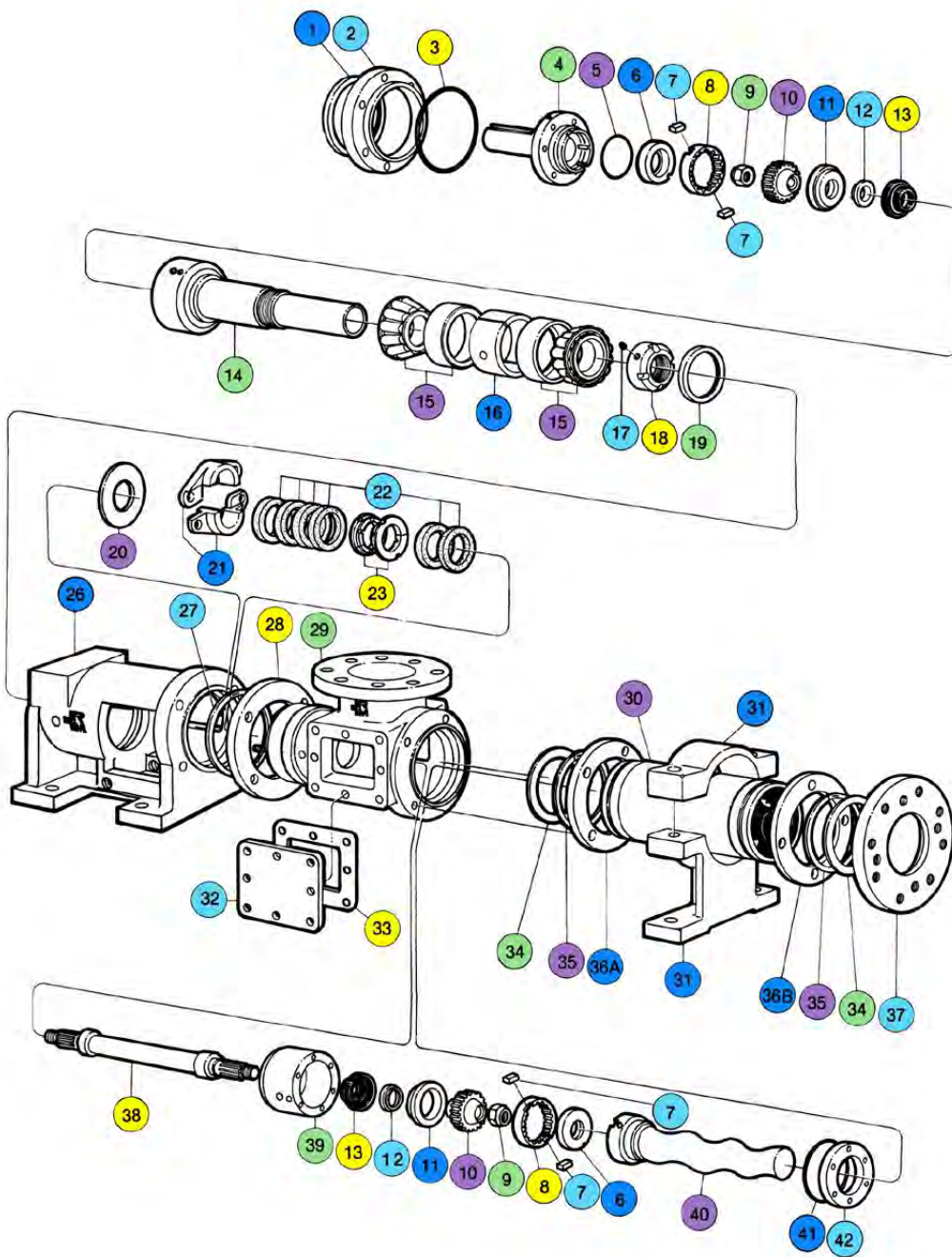
CK 2000 SERIES PARTS

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- 9 Lock Nut
- 10 Gear Ball
- 11 Secondary Thrust Plate
- 12 Seal Support
- 13 Gear Joint Seal
- 14 Drive Shaft
- 15 Tapered Roller Bearing
- 16 Bearing Spacer
- 17 Bearing Lock Plug
- 18 Bearing Lock Nut
- 19 Thrust Grease Seal
- 20 Slinger Ring
- 21 Packing Gland Set
- 22 Packing
- 23 Lantern Ring Set
- 26 Bearing Housing
- 27 Suction Housing Retaining Ring
- 28 Clamp Ring
- 29 Suction Housing
- 30 Stator
- 31 Stator Support
- 32 Inspection Plate
- 33 Inspection Plate Gasket
- 34 Stator Gasket
- 35 Stator Retaining Ring
- 36 A Stator Ring Clip
- 36 B Stator Clamp Ring
- 37 Discharge Flange
- 38 Connecting Rod
- 39 Gear Joint Shell
- 40 Rotor
- 41 O-Ring for Rotor Head
- 42 Head Ring



Gear Joint Kit (Includes quantity 1 each of part 6, 8, 10, 11, 12 and quantity of 2 of part 7.)

Bearing Kit (Includes quantity 1 each of part 1, 19 and quantity of 2 of part 15.)

Seal Kit 87 (Includes quantity 1 each of part 5, 41 and quantity of 2 of part 13.)

Seal Kit 88 (Includes quantity 1 each of part 5, 41 and quantity of 2 each of part 12, 13.)

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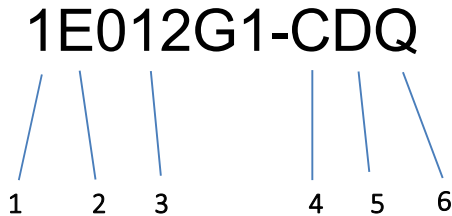
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CK 2000 Series Model Number Nomenclature:

Materials used in the pumps are based on the fluid to be handled and are indicated in the model number nomenclature.



- (1): Indicates the number of stages for the rotor and stator
- (2): Indicates the drive end unit
- (3): Indicates the size of the rotor and stator
- (4): Indicates the pump body casting material
- (5): Indicates the rotor and internal parts material
- (6): Indicates the stator material

Continental Part Description	Continental Letter Designation	Part Materials
Pump Body	C	Cast Iron
	S	316 Stainless Steel (CF8M)
Rotor	D	Chrome Plated Alloy Steel
	S	Chrome Plated Stainless Steel
Stator*	Q	Buna Nitrile
	R	Natural Rubber
	B	EPDM
	F	Viton®
	Y	HNBR
Internal Parts	CS	Carbon Steel
	S	Stainless Steel

*The Stator Elastomers can be furnished in either: C – Carbon Steel Sleeve or S – Stainless Steel Sleeve.

Example: QC is for Buna Nitrile Elastomer with Carbon Steel Sleeve.

Packing Sets: All sets are Formed and Cut Rings.

Teflon coated: General Service to handle are Caustics, mild acids, chemicals, solvents, oils. Temperature to 300°, pH range 2-10.

Graphite: General Service to handle are Strong caustics, acids, chemicals and high pressure steam. Temperature to 1200° in steam and 800° in oxidizing atmospheres, pH range 0-14.

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Part	Part Name	Continental Pump Part Number	Materials
	Radial Grease Seal	AG0611CK	Steel
	Bearing Cover Plate	PE0341CK	Cast Iron
	O-Ring for Bearing Cover Plate	PE110QCK	Buna
	Drive Shaft Head	PE0971CK	Carbon Steel
	O-Ring for Shaft Head	BE111QCK	Buna
	Primary Thrust Plate	PE0981CK	Brass
	Rotor Keys (Set of 2)	RE0761CK	Carbon Steel
	Ring Gear	AE0952CK Not Sold Individually See P/N: KPE951CK	Carbon Steel

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Part	Part Name	Continental Pump Part Number	Materials
	Lock Nut	RE0581CK	Carbon Steel
	Gear Ball	AE0951CK Not Sold Individually See P/N: KPE951CK	Carbon Steel
	Secondary Thrust Plate	PE0982CK	Brass
	Seal Support	PE0891CK	Carbon Steel
	Gear Joint Seal	PE087QCK PE087BCK PE087FCK	Buna EPDM Viton
	Drive Shaft with Bearing Lock Nut (PE0581CK)	PE0261CK PE0266CK	Carbon Steel Stainless Steel
	Tapered Roller Bearing (Cone and Cup)	PE0311CK	Carbon Steel
	Bearing Spacer	PE0331CK	Carbon Steel

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Part	Part Name	Continental Pump Part Number	Materials
	Bearing Lock Plug	P10762CK	Steel
	Bearing Lock Nut	PE0581CK	Carbon Steel
	Thrust Grease Seal	AK0621CK	Steel
	Slinger Ring	PE0771CK	Buna
	Packing Gland Set	PE041DCK PE041SCK	Carbon Steel Stainless Steel
	Packing (Braided)	PE0423CK PE0427CK	Graphite PTFE Teflon PTFE
	Lantern Ring Set	AE0571CK	Plastic Teflon
	Bearing Housing	PE0051CK	Cast Iron

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Part	Part Name	Continental Pump Part Number	Materials
	Suction Housing Retaining Ring	AF0085CK	Steel
	Clamp Ring	AF0932CK	Cast Iron
	Suction Housing E008 and E012	PE0021CK PE0026CK	Cast Iron Stainless Steel
	Suction Housing E022	PE0022CK PE0027CK	Cast Iron Stainless Steel
	Suction Housing E036 and E0509	PE0031CK PE0032CK	Cast Iron Stainless Steel
	Stator 1E008 Carbon Steel	C3108QCK C3108BCK C3108RCK C3108FCK	Buna EPDM Natural Rubber Viton
	Stator 2E008 Carbon Steel	C3208QCK C3208BCK C3208RCK C3208FCK	Buna EPDM Natural Rubber Viton
	Stator 4E008 Carbon Steel	C3408QCK C3408BCK C3408RCK C3408FCK	Buna EPDM Natural Rubber Viton

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Part	Part Name	Continental Pump Part Number	Materials
	Stator 6E008 Carbon Steel	C3608QCK C3608BCK C3608RCK C3608FCK	Buna EPDM Natural Rubber Viton
	Stator 1E012 Carbon Steel	C310EQCK C310EBCK C310ERCK C310EFCK	Buna EPDM Natural Rubber Viton
	Stator 2E012 Carbon Steel	C320EQCK C320EBCK C320ERCK C320EFCK	Buna EPDM Natural Rubber Viton
	Stator 4E012 Carbon Steel	C340EQCK C340EBCK C340ERCK C340EFCK	Buna EPDM Natural Rubber Viton
	Stator 6E012 Carbon Steel	C360EQCK C360EBCK C360ERCK C360EFCK	Buna EPDM Natural Rubber Viton
	Stator 1E022 Carbon Steel	C310FQCK C310FBCK C310FRCK C310FFCK	Buna EPDM Natural Rubber Viton
	Stator 2E022 Carbon Steel	C320FQCK C320FBCK C320FRCK C320FFCK	Buna EPDM Natural Rubber Viton
	Stator 4E022 Carbon Steel	C340FQCK C340FBCK C340FRCK C340FFCK	Buna EPDM Natural Rubber Viton

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Part	Part Name	Continental Pump Part Number	Materials
	Stator 1E036 Carbon Steel	C310GQCK C310GBCK C310GRCK C310GFCK	Buna EPDM Natural Rubber Viton
	Stator 2E036 Carbon Steel	C320GQCK C320GBCK C320GRCK C320GFCK	Buna EPDM Natural Rubber Viton
	Stator Support E008 and E012	BE0381CK	Cast Iron
	Stator Support E022	BE0382CK	Cast Iron
	Stator Support E036	PE0381CK	Cast Iron
	Inspection Plate	BE0171CK BE0176CK	Cast Iron Stainless Steel
	Inspection Plate Gasket	BE079QCK BE079BCK BE079FCK	Buna EPDM Viton
	Stator Gasket E008 and E012	BE085QCK BE085BCK BE085FCK	Buna EPDM Viton

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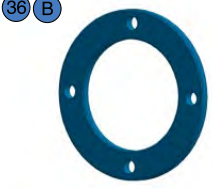
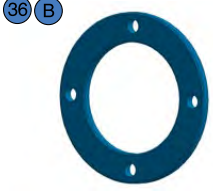
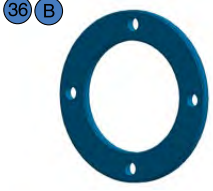
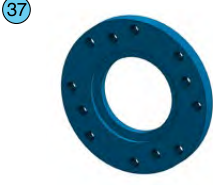
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Part	Part Name	Continental Pump Part Number	Materials
	Stator Gasket E022	BF085QCK BF085BCK BF085FCK	Buna EPDM Viton
	Stator Gasket E036	BG085QCK BG085BCK BG085FCK	Buna EPDM Viton
	Stator Retaining Ring E008 and E012	AE0085CK	Steel
	Stator Retaining Ring E022	AF0085CK	Steel
	Stator Retaining Ring E036	AG0085CK	Steel
	Stator Ring Clip E008 and E012 (1, 2, 3, 4, and 6 Stage)	AE0932CK	Cast Iron
	Stator Clamp Ring E008 and E012 (1, 2, and 3 Stage)	AE0932CK	Cast Iron
	Stator Ring Clip E022 (1, 2, 3 and 4 Stage)	AF0932CK	Cast Iron

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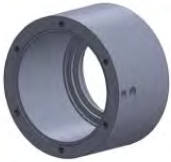
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Part	Part Name	Continental Pump Part Number	Materials
	Stator Clamp Ring E022 (1, 2, 3 and 4 Stage)	AF0932CK	Cast Iron
	Stator Ring Clip E036 (1, 2 and 3 Stage)	AG0932CK	Cast Iron
	Stator Clamp Ring E036 (1, 2 and 3 Stage)	AG0932CK	Cast Iron
	Stator Clamp Ring E008 and E012 (4 and 6 Stage)	AE0993CK	Cast Iron
	Discharge Flange E008 and E012 (1, 2 and 3 Stage)	BE0121CK BE0126CK	Cast Iron Stainless Steel
	Discharge Flange E022 (1, 2, 3 and 4 Stage)	BF0121CK BF0126CK	Cast Iron Stainless Steel
	Discharge Flange E036 (1, 2, and 3 Stage)	BG0121CK BG0126CK	Cast Iron Stainless Steel
	Discharge Flange E008 and E012 (4 and 6 Stage)	BE0122CK BE0127CK	Cast Iron Stainless Steel

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Part	Part Name	Continental Pump Part Number	Materials
	Connecting Rod E008, E012 and E022	PE0251CK PE0256CK	Cast Iron Stainless Steel
	Connecting Rod E008, E012 and E022	PE0252CK PE0257CK	Cast Iron Stainless Steel
	Gear Joint Shell	PE0911CK PE0916CK	Cast Iron Stainless Steel
	Rotor 1E008	C71E81CK C81E81CK	Cast Iron Stainless Steel
	Rotor 2E008	C72E81CK C82E81CK	Cast Iron Stainless Steel
	Rotor 4E008	C74E81CK C84E81CK	Cast Iron Stainless Steel
	Rotor 6E008	C76E81CK C86E81CK	Carbon Steel Stainless Steel
	Rotor 1E012	C71EE1CK C81EE1CK	Carbon Steel Stainless Steel

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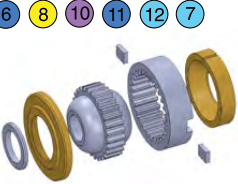
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Part	Part Name	Continental Pump Part Number	Materials
	Rotor 2E012	C72EE1CK C82EE1CK	Carbon Steel Stainless Steel
	Rotor 4E012	C74EE1CK C84EE1CK	Carbon Steel Stainless Steel
	Rotor 6E012	C76EE1CK C86EE1CK	Carbon Steel Stainless Steel
	Rotor 1E022	C71EF1CK C81EF1CK	Carbon Steel Stainless Steel
	Rotor 2E022	C72EF1CK C82EF1CK	Carbon Steel Stainless Steel
	Rotor 4E022	C74EF1CK C84EF1CK	Carbon Steel Stainless Steel
	Rotor 1E036	C71EG1CK C81EG1CK	Carbon Steel Stainless Steel
	Rotor 2E036	C72EG1CK C82EG1CK	Carbon Steel Stainless Steel

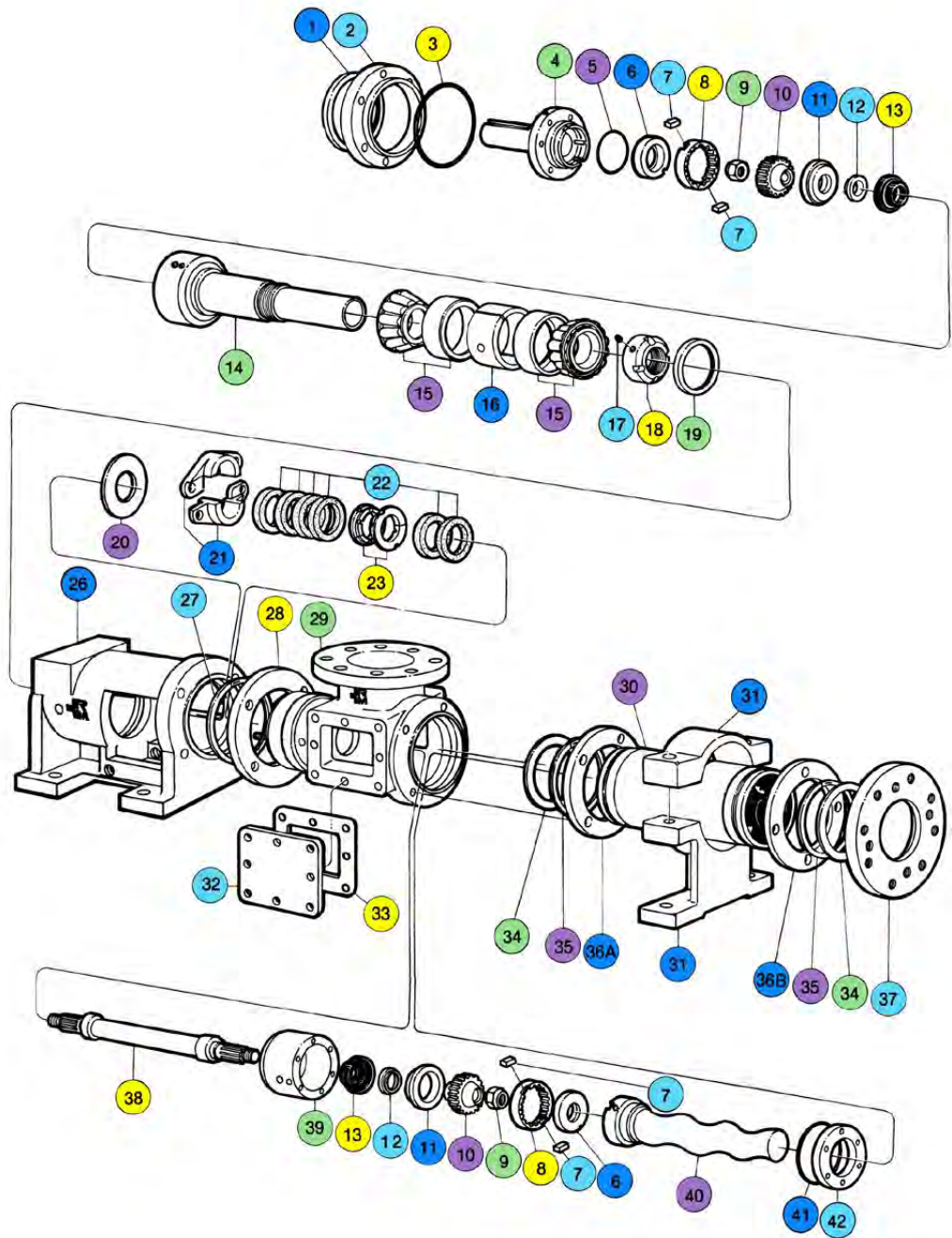
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Part	Part Name	Continental Pump Part Number	Materials
	O-Ring for Gear Joint Shell	PE113QCK PE113BCK PE113FCK	Buna EPDM Viton
	Head Ring (2 Piece) E008 and E012	PE033DCK PE033SCK	Carbon Steel Stainless Steel
	Head Ring (2 Piece) E022 and E036	PE034DCK PE034SCK	Carbon Steel Stainless Steel
	Gear Joint Kit Includes: (RE0761) Rotor Keys (Set of 2), (AE0952) 1 Ring Gear, (AE0951) 1 Gear Ball, (PE0981) 1 Thrust Plate Primary, (PE0982) 1 Thrust Plate Secondary and (PE0891) Seal Supports	KPE951CK	Carbon Steel
	Gear Joint Seal Kit Includes: (PE087) 2 Gear Joint Seals, (BE111) 1 Drive Shaft Head O-Ring and (PE113) 1 Rotor Head O-Ring <i>* Select material code Q, B or F</i>	KPE87QCK KPE87BCK KPE87FCK	Buna (Q) EPDM (B) Viton (F)
	Gear Joint Seal Kit (New Style) Includes: (PE087) 2 Gear Joint Seals, (PE0891) 2 Seal Supports, (BE111) 1 Drive Shaft Head O-Ring and (PE113) 1 Rotor Head O-Ring <i>* Select material code Q or F</i>	KPE88QCK KPE88FCK	Buna (Q) Viton (F)
	Bearing Kit (G1) Includes: (PE0311) 2 Roller Bearings, (AG0611) 1 Radial Grease Seal and (AK0621) 1 Thrust Grease Seal	KPE291CK	Carbon Steel

- 1 Radial Grease Seal
- 2 Bearing Cover Plate
- 3 O-Ring for Bearing Cover Plate
- 4 Drive Shaft Head
- 5 O-Ring for Shaft Head
- 6 Primary Thrust Plate
- 7 Rotor Key
- 8 Ring Gear
- 9 Lock Nut
- 10 Gear Ball
- 11 Secondary Thrust Plate
- 12 Seal Support
- 13 Gear Joint Seal
- 14 Drive Shaft
- 15 Tapered Roller Bearing
- 16 Bearing Spacer
- 17 Bearing Lock Plug
- 18 Bearing Lock Nut
- 19 Thrust Grease Seal
- 20 Slinger Ring
- 21 Packing Gland Set
- 22 Packing
- 23 Lantern Ring Set
- 26 Bearing Housing
- 27 Suction Housing Retaining Ring
- 28 Clamp Ring
- 29 Suction Housing
- 30 Stator
- 31 Stator Support
- 32 Inspection Plate
- 33 Inspection Plate Gasket
- 34 Stator Gasket
- 35 Stator Retaining Ring
- 36 A Stator Ring Clip
- 36 B Stator Clamp Ring
- 37 Discharge Flange
- 38 Connecting Rod
- 39 Gear Joint Shell
- 40 Rotor
- 41 O-Ring for Rotor Head
- 42 Head Ring



Gear Joint Kit (Includes quantity 1 each of part 6, 8, 10, 11, 12 and quantity of 2 of part 7.)

Bearing Kit (Includes quantity 1 each of part 1, 19 and quantity of 2 of part 15.)

Seal Kit 87 (Includes quantity 1 each of part 5, 41 and quantity of 2 of part 13.)

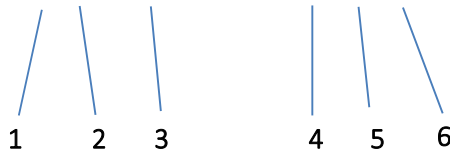
Seal Kit 88 (Includes quantity 1 each of part 5, 41 and quantity of 2 each of part 12, 13.)



CK 2000 Series Model Number Nomenclature:

Materials used in the pumps are based on the fluid to be handled and are indicated in the model number nomenclature.

2F036G1-CDQ



- (1): Indicates the number of stages for the rotor and stator
- (2): Indicates the drive end unit
- (3): Indicates the size of the rotor and stator
- (4): Indicates the pump body casting material
- (5): Indicates the rotor and internal parts material
- (6): Indicates the stator material

Continental Part Description	Continental Letter Designation	Part Materials
Pump Body	C	Cast Iron
	S	316 Stainless Steel (CF8M)
Rotor	D	Chrome Plated Alloy Steel
	S	Chrome Plated Stainless Steel
Stator*	Q	Buna Nitrile
	R	Natural Rubber
	B	EPDM
	F	Viton®
Internal Parts	CS	Carbon Steel
	S	Stainless Steel

*The Stator Elastomers can be furnished in either: C – Carbon Steel Sleeve or S – Stainless Steel Sleeve.

Example: QC is for Buna Nitrile Elastomer with Carbon Steel Sleeve.

Packing Sets: All sets are Formed and Cut Rings.

Teflon coated: General Service to handle are Caustics, mild acids, chemicals, solvents, oils. Temperature to 300°, pH range 2-10.

Graphite: General Service to handle are Strong caustics, acids, chemicals and high pressure steam. Temperature to 1200° in steam and 800° in oxidizing atmospheres, pH range 0-14.

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Part	Part Name	Continental Pump Part Number	Materials
	Radial Grease Seal	PF0611CK	Steel
	Bearing Cover Plate	PF0341CK	Cast Iron
	O-Ring for Bearing Cover Plate	BJ112QCK	Buna
	Drive Shaft Head	PF0971CK	Carbon Steel
	O-Ring for Shaft Head	BE113QCK	Buna
	Primary Thrust Plate	PF0981CK	Brass
	Rotor Keys (Set of 2)	RF0761CK	Carbon Steel
	Ring Gear	AF0952CK Not Sold Individually See P/N: KPE951CK	Carbon Steel

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Part	Part Name	Continental Pump Part Number	Materials
	Lock Nut	RF0581CK	Carbon Steel
	Gear Ball	AF0951CK Not Sold Individually See P/N: KPE951CK	Carbon Steel
	Secondary Thrust Plate	PF0982CK	Brass
	Seal Support	PF0891CK	Carbon Steel
	Gear Joint Seal	PF087QCK PF087BCK PF087FCK	Buna EPDM Viton
	Drive Shaft with Bearing Lock Nut (PF0581CK)	PF0261CK PF0266CK	Carbon Steel Stainless Steel
	Tapered Roller Bearing (Cone and Cup)	PF0311CK	Carbon Steel
	Bearing Spacer	PF0331CK	Carbon Steel

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Part	Part Name	Continental Pump Part Number	Materials
	Bearing Lock Plug	PF0762CK	Steel
	Bearing Lock Nut	PF0581CK	Carbon Steel
	Thrust Grease Seal	XK0621CK	Steel
	Slinger Ring	PF0771CK	Buna
	Packing Gland Set	PF041DCK PF041SCK	Carbon Steel Stainless Steel
	Packing (Braided)	PF0423CK PF0427CK	Graphite PTFE Teflon PTFE
	Lantern Ring Set	PF0571CK	Plastic Teflon
	Bearing Housing	PF0051CK	Cast Iron

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Part	Part Name	Continental Pump Part Number	Materials
	Suction Housing Retaining Ring	AG0085CK	Steel
	Clamp Ring	AG0932CK	Cast Iron
	Suction Housing F012 and F022	PF0021CK PF0026CK	Cast Iron Stainless Steel
	Suction Housing F036 and F050	PF0022CK PF0027CK	Cast Iron Stainless Steel
	Suction Housing F065 and F090	PF0031CK PF0032CK	Cast Iron Stainless Steel
	Stator 6F012 Carbon Steel	C360EQCK C360EBCK C360ERCK C360EFCK	Buna EPDM Natural Rubber Viton
	Stator 1F022 Carbon Steel	C310FQCK C310FBCK C310FRCK C310FFCK	Buna EPDM Natural Rubber Viton
	Stator 2F022 Carbon Steel	C320FQCK C320FBCK C320FRCK C320FFCK	Buna EPDM Natural Rubber Viton

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Part	Part Name	Continental Pump Part Number	Materials
	Stator 4F022 Carbon Steel	C340FQCK C340FBCK C340FRCK C340FFCK	Buna EPDM Natural Rubber Viton
	Stator 6F022 Carbon Steel	C360FQCK C360FBCK C360FRCK C360FFCK	Buna EPDM Natural Rubber Viton
	Stator 1F036 Carbon Steel	C310GQCK C310GBCK C310GRCK C310GFCK	Buna EPDM Natural Rubber Viton
	Stator 2F036 Carbon Steel	C320GQCK C320GBCK C320GRCK C320GFCK	Buna EPDM Natural Rubber Viton
	Stator 4F036 Carbon Steel	C340GQCK C340GBCK C340GRCK C340GFCK	Buna EPDM Natural Rubber Viton
	Stator 1F050 Carbon Steel	C3150QCK C3150BCK C3150RCK C3150FCK	Buna EPDM Natural Rubber Viton
	Stator 2F050 Carbon Steel	C3250QCK C3250BCK C3250RCK C3250FCK	Buna EPDM Natural Rubber Viton
	Stator 4F050 Carbon Steel	C3450QCK C3450BCK C3450RCK C3450FCK	Buna EPDM Natural Rubber Viton

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Part	Part Name	Continental Pump Part Number	Materials
	Stator Support F012	BF0383CK	Cast Iron
	Stator Support F022	BF0381CK	Cast Iron
	Stator Support F036 and F050	BF0382CK	Cast Iron
	Inspection Plate	BF0171CK BF0176CK	Cast Iron Stainless Steel
	Inspection Plate Gasket	BF079QCK BF079BCK BF079FCK	Buna EPDM Viton
	Stator Gasket F012	BE085QCK BE085BCK BE085FCK	Buna EPDM Viton
	Stator Gasket F022	BF085QCK BF085BCK BF085FCK	Buna EPDM Viton
	Stator Gasket F036 and F050	BG085QCK BG085BCK BG085FCK	Buna EPDM Viton

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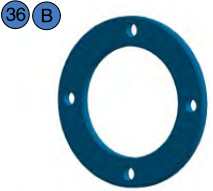
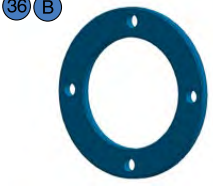
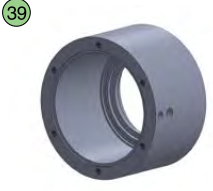
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Part	Part Name	Continental Pump Part Number	Materials
	Stator Retaining Ring F012	AE0085CK	Steel
	Stator Retaining Ring F022	AF0085CK	Steel
	Stator Retaining Ring F036 and F050	AG0085CK	Steel
	Stator Ring Clip F012 (6 Stage)	AF0933CK	Cast Iron
	Stator Clamp Ring F012 (6 Stage)	AF0992CK	Cast Iron
	Stator Ring Clip F022 (1, 2, 3, 4, and 6 Stage)	AF0932CK	Cast Iron
	Stator Clamp Ring F022 (1, 2, and 3 Stage)	AF0932CK	Cast Iron
	Stator Ring Clip F036 and F050 (1, 2, 3 and 4 Stage)	AG0932CK	Cast Iron

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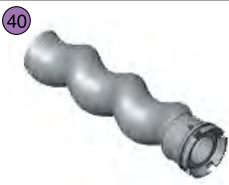
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Part	Part Name	Continental Pump Part Number	Materials
	Stator Clamp Ring F036 and F050 (1, 2, 3 and 4 Stage)	AG0932CK	Cast Iron
	Stator Clamp Ring F022 (4 and 6 Stage)	AF0993CK	Cast Iron
	Discharge Flange F012 (6 Stage)	BF0120CK BF0125CK	Cast Iron Stainless Steel
	Discharge Flange F022 (1, 2, and 3 Stage)	BF0121CK BF0126CK	Cast Iron Stainless Steel
	Discharge Flange F036 and F050 (1, 2, 3 and 4 Stage)	BG0121CK BG0126CK	Cast Iron Stainless Steel
	Discharge Flange F022 (4 and 6 Stage)	BF0122CK BF0127CK	Cast Iron Stainless Steel
	Connecting Rod F012, F022, F036 and F050	PF0251CK PF0256CK	Cast Iron Stainless Steel
	Gear Joint Shell	PF0911CK PF0916CK	Cast Iron Stainless Steel

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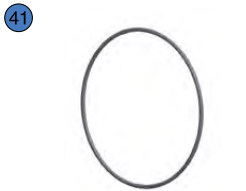
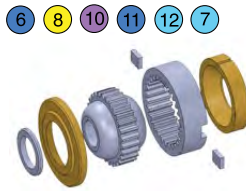
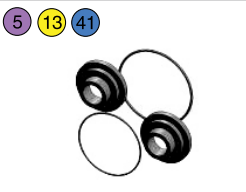
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Part	Part Name	Continental Pump Part Number	Materials
	Rotor 6F012	C76FE1CK C86FE1CK	Cast Iron Stainless Steel
	Rotor 1F022	C71FF1CK C81FF1CK	Cast Iron Stainless Steel
	Rotor 2F022	C72FF1CK C82FF1CK	Carbon Steel Stainless Steel
	Rotor 4F022	C74FF1CK C84FF1CK	Carbon Steel Stainless Steel
	Rotor 6F022	C76FF1CK C86FF1CK	Carbon Steel Stainless Steel
	Rotor 1F036	C71FG1CK C81FG1CK	Carbon Steel Stainless Steel
	Rotor 2F036	C72FG1CK C82FG1CK	Carbon Steel Stainless Steel
	Rotor 4F036	C74FG1CK C84FG1CK	Carbon Steel Stainless Steel

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Part	Part Name	Continental Pump Part Number	Materials
	Rotor 1F050	C71F51CK C81F51CK	Carbon Steel Stainless Steel
	Rotor 2F050	C72F51CK C82F51CK	Carbon Steel Stainless Steel
	Rotor 4F050	C74F51CK C84F51CK	Carbon Steel Stainless Steel
	O-Ring for Gear Joint Shell	PF113QCK PF113BCK PF113FCK	Buna EPDM Viton
TARBY Style			
	O-Ring for Gear Joint Shell	PF113QCK/T PF113BCK/T PF113FCK/T	Buna EPDM Viton
	Head Ring (2 Piece) F012, F022, F036 and F050	PF033DCK PF033SCK	Carbon Steel Stainless Steel
	Gear Joint Kit Includes: (RF0761) Rotor Keys (Set of 2), (AF0952) 1 Ring Gear, (AF0951) 1 Gear Ball, (PF0981) 1 Thrust Plate Primary, (PF0982) 1 Thrust Plate Secondary and (PF0891) Seal Supports	KPF951CK	Carbon Steel
	Gear Joint Seal Kit Includes: (PF087 <u>*</u>) 2 Gear Joint Seals, (BE111 <u>*</u>) 1 Drive Shaft Head O-Ring and (PF113 <u>*</u>) 1 Rotor Head O-Ring <i>* Select material code Q, B or F</i>	KPF87QCK KPF87BCK KPF87FCK	Buna (Q) EPDM (B) Viton (F)

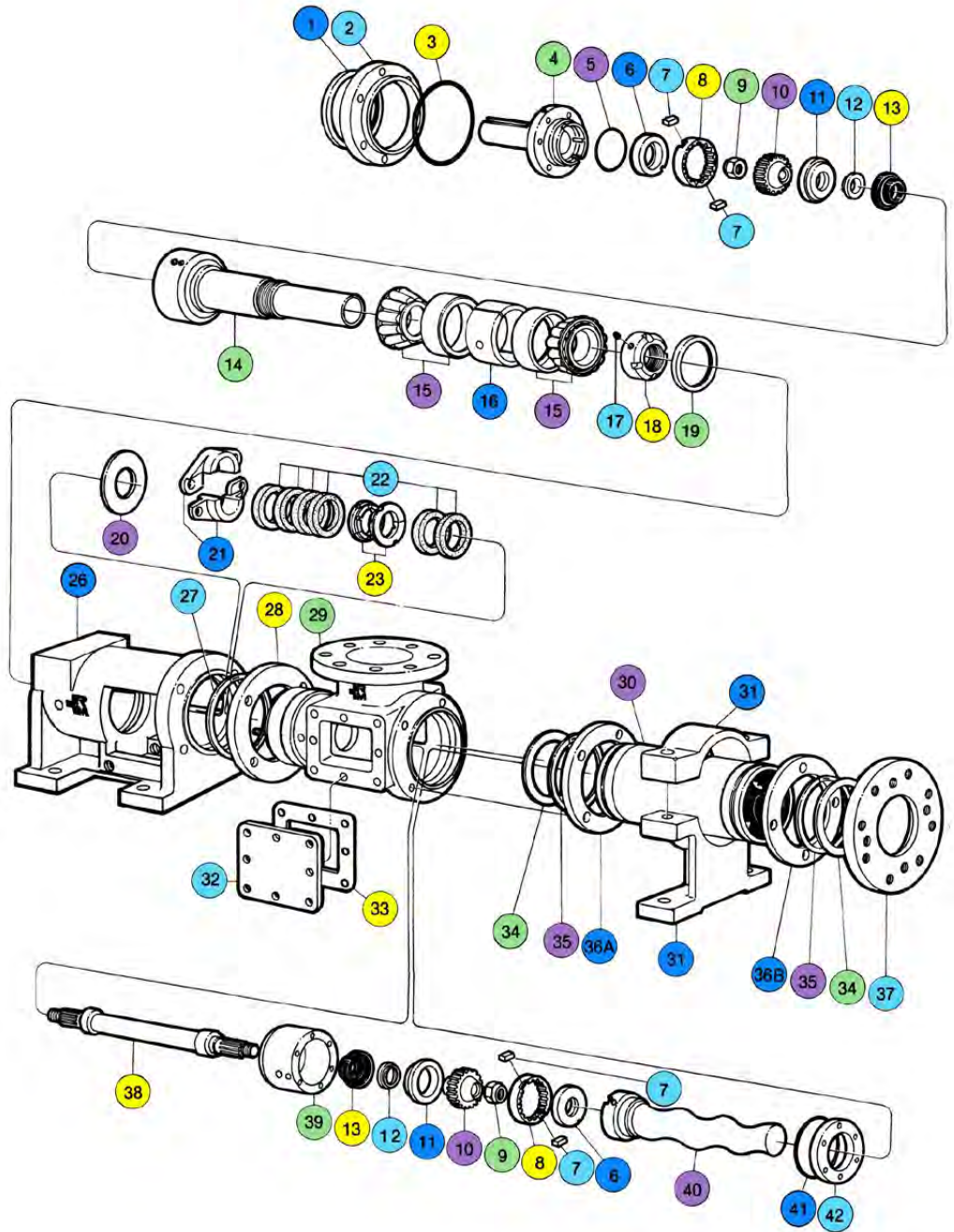
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Part	Part Name	Continental Pump Part Number	Materials
TARBY Style 	Gear Joint Seal Kit (NEW STYLE) Includes: (PF087 <u>*/T</u>) 2 Gear Joint Seals, (BE113 <u>*/T</u>) 1 Drive Shaft Head O-Ring and (PF113 <u>*/T</u>) 1 Rotor Head O-Ring <i>* Select material code Q, B or F</i>	KPF87QCK/T KPF87BCK/T KPF87FCK/T	Buna (Q) EPDM (B) Viton (F)
	Gear Joint Seal Kit (NEW STYLE) Includes: (PF087 <u>*/T</u>) 2 Gear Joint Seals, (PF0891) 2 Seal Supports, (BE113 <u>*/T</u>) 1 Drive Shaft Head O-Ring and (PF113 <u>*/T</u>) 1 Rotor Head O-Ring <i>* Select material code Q or F</i>	KPF88QCK KPF88FCK	Buna (Q) Viton (F)
TARBY Style 	Gear Joint Seal Kit (NEW STYLE) Includes: (PF087 <u>*/T</u>) 2 Gear Joint Seals, (PF0891) 2 Seal Supports, (BE111 <u>*/T</u>) 1 Drive Shaft Head O-Ring and (PF113 <u>*/T</u>) 1 Rotor Head O-Ring <i>* Select material code Q or F</i>	KPF88QCK/T KPF88FCK/T	Buna (Q) Viton (F)
	Bearing Kit (G1) Includes: (PF0311) 2 Roller Bearings, (PF0611) 1 Radial Grease Seal and (XK0621) 1 Thrust Grease Seal	KPF291CK	Carbon Steel

- 1 Radial Grease Seal
- 2 Bearing Cover Plate
- 3 O-Ring for Bearing Cover Plate
- 4 Drive Shaft Head
- 5 O-Ring for Shaft Head
- 6 Primary Thrust Plate
- 7 Rotor Key
- 8 Ring Gear
- 9 Lock Nut
- 10 Gear Ball
- 11 Secondary Thrust Plate
- 12 Seal Support
- 13 Gear Joint Seal
- 14 Drive Shaft
- 15 Tapered Roller Bearing
- 16 Bearing Spacer
- 17 Bearing Lock Plug
- 18 Bearing Lock Nut
- 19 Thrust Grease Seal
- 20 Slinger Ring
- 21 Packing Gland Set
- 22 Packing
- 23 Lantern Ring Set
- 26 Bearing Housing
- 27 Suction Housing Retaining Ring
- 28 Clamp Ring
- 29 Suction Housing
- 30 Stator
- 31 Stator Support
- 32 Inspection Plate
- 33 Inspection Plate Gasket
- 34 Stator Gasket
- 35 Stator Retaining Ring
- 36 A Stator Ring Clip
- 36 B Stator Clamp Ring
- 37 Discharge Flange
- 38 Connecting Rod
- 39 Gear Joint Shell
- 40 Rotor
- 41 O-Ring for Rotor Head
- 42 Head Ring



Gear Joint Kit (Includes quantity 1 each of part 6, 8, 10, 11, 12 and quantity of 2 of part 7.)

Bearing Kit (Includes quantity 1 each of part 1, 19 and quantity of 2 of part 15.)

Seal Kit 87 (Includes quantity 1 each of part 5, 41 and quantity of 2 of part 13.)

Seal Kit 88 (Includes quantity 1 each of part 5, 41 and quantity of 2 each of part 12, 13.)

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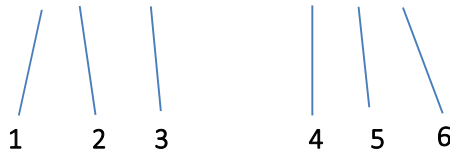
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CK 2000 Series Model Number Nomenclature:

Materials used in the pumps are based on the fluid to be handled and are indicated in the model number nomenclature.

2G065G1-CDQ



- (1): Indicates the number of stages for the rotor and stator
- (2): Indicates the drive end unit
- (3): Indicates the size of the rotor and stator
- (4): Indicates the pump body casting material
- (5): Indicates the rotor and internal parts material
- (6): Indicates the stator material

Continental Part Description	Continental Letter Designation	Part Materials
Pump Body	C	Cast Iron
	S	316 Stainless Steel (CF8M)
Rotor	D	Chrome Plated Alloy Steel
	S	Chrome Plated Stainless Steel
Stator*	Q	Buna Nitrile
	R	Natural Rubber
	B	EPDM
	F	Viton®
Internal Parts	CS	Carbon Steel
	S	Stainless Steel

*The Stator Elastomers can be furnished in either: C – Carbon Steel Sleeve or S – Stainless Steel Sleeve.

Example: QC is for Buna Nitrile Elastomer with Carbon Steel Sleeve.

Packing Sets: All sets are Formed and Cut Rings.

Teflon coated: General Service to handle are Caustics, mild acids, chemicals, solvents, oils. Temperature to 300°, pH range 2-10.

Graphite: General Service to handle are Strong caustics, acids, chemicals and high pressure steam. Temperature to 1200° in steam and 800° in oxidizing atmospheres, pH range 0-14.

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Part	Part Name	Continental Pump Part Number	Materials
	Radial Grease Seal	PG0611CK	Steel
	Bearing Cover Plate	PG0341CK	Cast Iron
	O-Ring for Bearing Cover Plate	BK112QCK	Buna
	Drive Shaft Head	PG0971CK	Carbon Steel
	O-Ring for Shaft Head	BG113QCK	Buna
	Primary Thrust Plate	PG0981CK	Brass
	Rotor Keys (Set of 2)	RG0761CK	Carbon Steel
	Ring Gear	AG0952CK Not Sold Individually See P/N: KPG951CK	Carbon Steel

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Part	Part Name	Continental Pump Part Number	Materials
	Lock Nut	RG0581CK	Carbon Steel
	Gear Ball	AG0951CK Not Sold Individually See P/N: KPG951CK	Carbon Steel
	Secondary Thrust Plate	PG0982CK	Brass
	Seal Support	PG0891CK	Carbon Steel
	Gear Joint Seal	PG087QCK PG087BCK PG087FCK	Buna EPDM Viton
	Drive Shaft with Bearing Lock Nut (PG0581CK)	PG0261CK PG0266CK	Carbon Steel Stainless Steel
	Tapered Roller Bearing (Cone and Cup)	PG0311CK	Carbon Steel
	Bearing Spacer	PG0331CK	Carbon Steel

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Part	Part Name	Continental Pump Part Number	Materials
	Bearing Lock Plug	P10762CK	Steel
	Bearing Lock Nut	PG0581CK	Carbon Steel
	Thrust Grease Seal	PG0621CK	Steel
	Slinger Ring	PG0771CK	Buna
	Packing Gland Set	PG041DCK PG041SCK	Carbon Steel Stainless Steel
	Packing (Braided)	PG0423CK PG0427CK	Graphite PTFE Teflon PTFE
	Lantern Ring Set	PG0571CK	Plastic Teflon
	Bearing Housing	PG0051CK	Cast Iron

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Part	Part Name	Continental Pump Part Number	Materials
	Suction Housing Retaining Ring	PG0085CK	Steel
	Clamp Ring	PG0932CK	Cast Iron
	Suction Housing G022, G036 and E050	PG0021CK PG0026CK	Cast Iron Stainless Steel
	Suction Housing G065 and G090	PG0022CK PG0027CK	Cast Iron Stainless Steel
	Suction Housing G115	PG0031CK PG0032CK	Cast Iron Stainless Steel
	Stator 6G022 Carbon Steel	C360FQCK C360FBCK C360FRCK C360FFCK	Buna EPDM Natural Rubber Viton
	Stator 1G036 Carbon Steel	C310GQCK C310GBCK C310GRCK C310GFCK	Buna EPDM Natural Rubber Viton
	Stator 2G036 Carbon Steel	C320GQCK C320GBCK C320GRCK C320GFCK	Buna EPDM Natural Rubber Viton

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Part	Part Name	Continental Pump Part Number	Materials
	Stator 4G036 Carbon Steel	C340GQCK C340GBCK C340GRCK C340GFCK	Buna EPDM Natural Rubber Viton
	Stator 6G036 Carbon Steel	C360GQCK C360GBCK C360GRCK C360GFCK	Buna EPDM Natural Rubber Viton
	Stator 2G050 Carbon Steel	C3250QCK C3250BCK C3250RCK C3250FCK	Buna EPDM Natural Rubber Viton
	Stator 4G050 Carbon Steel	C3450QCK C3450BCK C3450RCK C3450FCK	Buna EPDM Natural Rubber Viton
	Stator 6G050 Carbon Steel	C3650QCK C3650BCK C3650RCK C3650FCK	Buna EPDM Natural Rubber Viton
	Stator 1G065 Carbon Steel	C310HQCK C310HBCK C310HRCK C310HFCK	Buna EPDM Natural Rubber Viton
	Stator 2G065 Carbon Steel	C320HQCK C320HBCK C320HRCK C320HFCK	Buna EPDM Natural Rubber Viton
	Stator 4G065 Carbon Steel	C340HQCK C340HBCK C340HRCK C340HFCK	Buna EPDM Natural Rubber Viton

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Part	Part Name	Continental Pump Part Number	Materials
	Stator 1G090 Carbon Steel	C3190QCK C3190BCK C3190RCK C3190FCK	Buna EPDM Natural Rubber Viton
	Stator 2G090 Carbon Steel	C3290QCK C3290BCK C3290RCK C3290FCK	Buna EPDM Natural Rubber Viton
	Stator 4G090 Carbon Steel	C3490QCK C3490BCK C3490RCK C3490FCK	Buna EPDM Natural Rubber Viton
	Stator 1G115 Carbon Steel	C310JQCK C310JBCK C310JRCK C310JFCK	Buna EPDM Natural Rubber Viton
	Stator 2G115 Carbon Steel	C320JQCK C320JBCK C320JRCK C320JFCK	Buna EPDM Natural Rubber Viton
	Stator Support G022	BG0383CK	Cast Iron
	Stator Support G036 and G050	BG0381CK	Cast Iron
	Stator Support G065, G090 and G115	BG0382CK	Cast Iron

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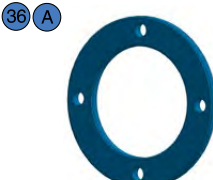
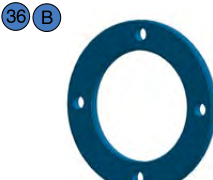
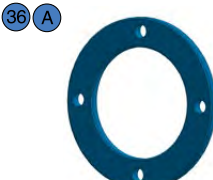
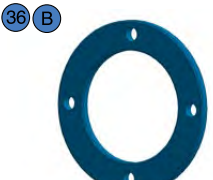
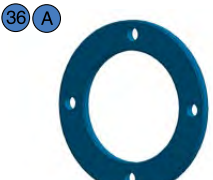
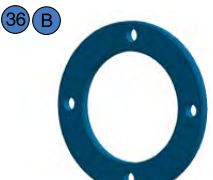
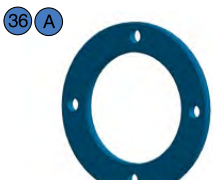
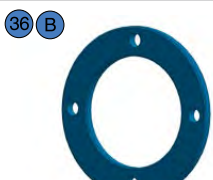
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Part	Part Name	Continental Pump Part Number	Materials
	Inspection Plate	BF0171CK BF0176CK	Cast Iron Stainless Steel
	Inspection Plate Gasket	BF079QCK BF079BCK BF079FCK	Buna EPDM Viton
	Stator Gasket G022	BF085QCK BF085BCK BF085FCK	Buna EPDM Viton
	Stator Gasket G036 and G050	BG085QCK BG085BCK BG085FCK	Buna EPDM Viton
	Stator Gasket G065, G090 and G115	BH085QCK BH085BCK BH085FCK	Buna EPDM Viton
	Stator Retaining Ring G022	AF0085CK	Steel
	Stator Retaining Ring G036 and G050	AG0085CK	Steel
	Stator Retaining Ring G065, G090 and G115	AH0085CK	Steel

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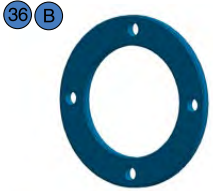
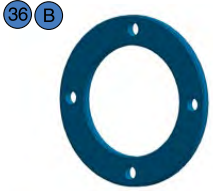
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Part	Part Name	Continental Pump Part Number	Materials
	Stator Ring Clip G022 (6 Stage)	AG0933CK	Cast Iron
	Stator Clamp Ring G022 (6 Stage)	AG0992CK	Cast Iron
	Stator Ring Clip G036 and G050 (1, 2, 3, 4, and 6 Stage)	AG0932CK	Cast Iron
	Stator Clamp Ring G036 and G050 (1, 2, and 3 Stage)	AG0932CK	Cast Iron
	Stator Ring Clip G065 and G090 (1, 2, 3 and 4 Stage)	AH0932CK	Cast Iron
	Stator Clamp Ring G065 and G090 (1, 2, 3 and 4 Stage)	AH0932CK	Cast Iron
	Stator Ring Clip G115 (1, 2 and 3 Stage)	AH0932CK	Cast Iron
	Stator Clamp Ring G115 (1, 2 and 3 Stage)	AH0932CK	Cast Iron

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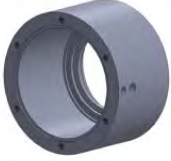
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Part	Part Name	Continental Pump Part Number	Materials
	Stator Clamp Ring G036 (4 and 6 Stage)	AG0993CK	Cast Iron
	Stator Clamp Ring G050 (4 and 6 Stage)	AG0993CK	Cast Iron
	Discharge Flange G022 (6 Stage)	BG0120CK BG0125CK	Cast Iron Stainless Steel
	Discharge Flange G036 and G050 (1, 2, and 3 Stage)	BG0121CK BG0126CK	Cast Iron Stainless Steel
	Discharge Flange G065 and G090 (1, 2, 3 and 4 Stage)	BH0121CK BH0126CK	Cast Iron Stainless Steel
	Discharge Flange G115 (1, 2 and 3 Stage)	BJ0121CK BJ0126CK	Cast Iron Stainless Steel
	Discharge Flange G036 and G050 (4 and 6 Stage)	BG0122CK BG0127CK	Cast Iron Stainless Steel
	Connecting Rod G022, G036, G050, G065 and G090	PG0251CK PG0256CK	Cast Iron Stainless Steel

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Part	Part Name	Continental Pump Part Number	Materials
	Connecting Rod G115	PG0252CK PG0257CK	Cast Iron Stainless Steel
	Gear Joint Shell	PG0911CK PG0916CK	Cast Iron Stainless Steel
	Rotor 6G022	C76GF1CK C86GF1CK	Cast Iron Stainless Steel
	Rotor 1G036	C71GG1CK C81GG1CK	Carbon Steel Stainless Steel
	Rotor 2G036	C72GG1CK C82GG1CK	Carbon Steel Stainless Steel
	Rotor 4G036	C74GG1CK C84GG1CK	Carbon Steel Stainless Steel
	Rotor 6G036	C76GG1CK C86GG1CK	Carbon Steel Stainless Steel
	Rotor 2G050	C72G51CK C82G51CK	Carbon Steel Stainless Steel

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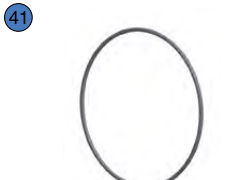
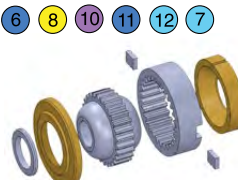
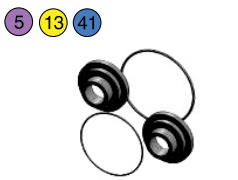
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Part	Part Name	Continental Pump Part Number	Materials
	Rotor 4G050	C74G51CK C84G51CK	Carbon Steel Stainless Steel
	Rotor 6G050	C76G51CK C86G51CK	Carbon Steel Stainless Steel
	Rotor 1G065	C71GH1CK C81GH1CK	Carbon Steel Stainless Steel
	Rotor 2G065	C72GH1CK C82GH1CK	Carbon Steel Stainless Steel
	Rotor 4G065	C74GH1CK C84GH1CK	Carbon Steel Stainless Steel
	Rotor 1G090	C71G91CK C81G91CK	Carbon Steel Stainless Steel
	Rotor 2G090	C72G91CK C82G91CK	Carbon Steel Stainless Steel
	Rotor 4G090	C74G91CK C84G91CK	Carbon Steel Stainless Steel

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Part	Part Name	Continental Pump Part Number	Materials
	Rotor 1G115	C71GJ1CK C81GJ1CK	Carbon Steel Stainless Steel
	Rotor 2G115	C72GJ1CK C82GJ1CK	Carbon Steel Stainless Steel
	O-Ring for Gear Joint Shell	PG113QCK PG113BCK PG113FCK	Buna EPDM Viton
	Head Ring (2 Piece) G022, G036 and G050	PG033DCK PG033SCK	Carbon Steel Stainless Steel
	Head Ring (2 Piece) G065, G090 and G115	PG034DCK PG034SCK	Carbon Steel Stainless Steel
	Gear Joint Kit Includes: (RG0761) Rotor Keys (Set of 2), (AG0952) 1 Ring Gear, (AG0951) 1 Gear Ball, (PF0981) 1 Thrust Plate Primary, (PG0982) 1 Thrust Plate Secondary and (PG0891) Seal Supports	KPG951CK	Carbon Steel
	Gear Joint Seal Kit Includes: (PG087*) 2 Gear Joint Seals, (PG113*) 1 Drive Shaft Head O-Ring and (BG114*) 1 Rotor Head O-Ring * Select material code Q, B or F	KPG87QCK KPG87BCK KPG87FCK	Buna (Q) EPDM (B) Viton (F)
	Gear Joint Seal Kit (NEW STYLE) Includes: (PG087*) 2 Gear Joint Seals, (PG0891) 2 Seal Supports, (PG113*) 1 Drive Shaft Head O-Ring and (BG113*) 1 Rotor Head O-Ring * Select material code Q or F	KPG88QCK KPG88FCK	Buna (Q) Viton (F)

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CK 2000 Series G Frame

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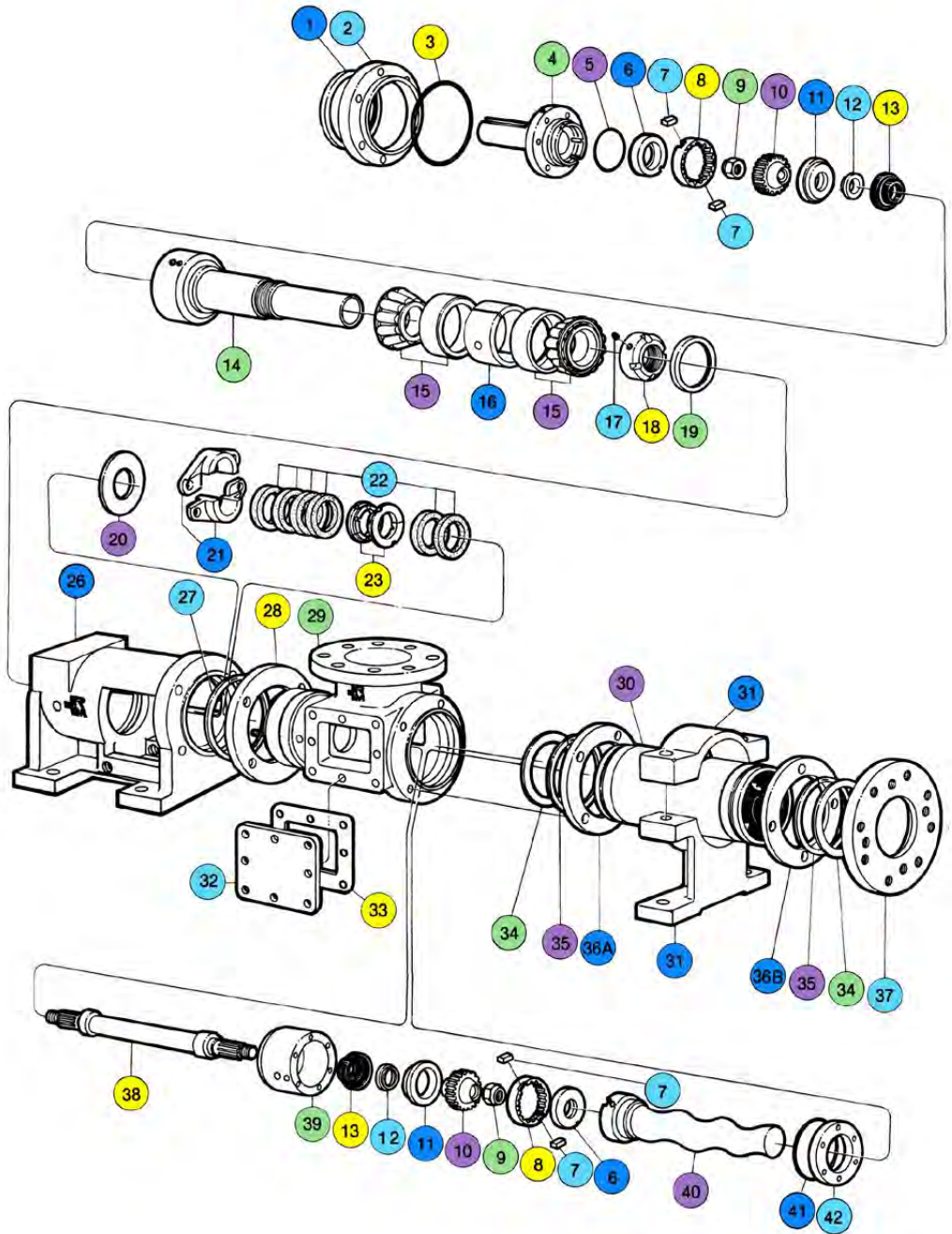
Part	Part Name	Continental Pump Part Number	Materials
	Bearing Kit (G1) Includes: (PG0311) 2 Roller Bearings, (PG0611) 1 Radial Grease Seal and (PG0621) 1 Thrust Grease Seal	KPG291CK	Carbon Steel

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- 1 Radial Grease Seal
- 2 Bearing Cover Plate
- 3 O-Ring for Bearing Cover Plate
- 4 Drive Shaft Head
- 5 O-Ring for Shaft Head
- 6 Primary Thrust Plate
- 7 Rotor Key
- 8 Ring Gear
- 9 Lock Nut
- 10 Gear Ball
- 11 Secondary Thrust Plate
- 12 Seal Support
- 13 Gear Joint Seal
- 14 Drive Shaft
- 15 Tapered Roller Bearing
- 16 Bearing Spacer
- 17 Bearing Lock Plug
- 18 Bearing Lock Nut
- 19 Thrust Grease Seal
- 20 Slinger Ring
- 21 Packing Gland Set
- 22 Packing
- 23 Lantern Ring Set
- 26 Bearing Housing
- 27 Suction Housing Retaining Ring
- 28 Clamp Ring
- 29 Suction Housing
- 30 Stator
- 31 Stator Support
- 32 Inspection Plate
- 33 Inspection Plate Gasket
- 34 Stator Gasket
- 35 Stator Retaining Ring
- 36 A Stator Ring Clip
- 36 B Stator Clamp Ring
- 37 Discharge Flange
- 38 Connecting Rod
- 39 Gear Joint Shell
- 40 Rotor
- 41 O-Ring for Rotor Head
- 42 Head Ring



Gear Joint Kit (Includes quantity 1 each of part 6, 8, 10, 11, 12 and quantity of 2 of part 7.)

Bearing Kit (Includes quantity 1 each of part 1, 19 and quantity of 2 of part 15.)

Seal Kit 87 (Includes quantity 1 each of part 5, 41 and quantity of 2 of part 13.)

Seal Kit 88 (Includes quantity 1 each of part 5, 41 and quantity of 2 each of part 12, 13.)

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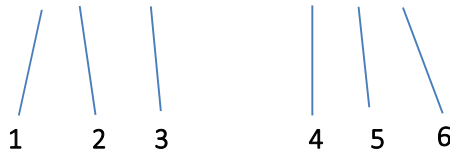
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CK 2000 Series Model Number Nomenclature:

Materials used in the pumps are based on the fluid to be handled and are indicated in the model number nomenclature.

2H115G1-CDQ



- (1): Indicates the number of stages for the rotor and stator
- (2): Indicates the drive end unit
- (3): Indicates the size of the rotor and stator
- (4): Indicates the pump body casting material
- (5): Indicates the rotor and internal parts material
- (6): Indicates the stator material

Continental Part Description	Continental Letter Designation	Part Materials
Pump Body	C	Cast Iron
	S	316 Stainless Steel (CF8M)
Rotor	D	Chrome Plated Alloy Steel
	S	Chrome Plated Stainless Steel
Stator*	Q	Buna Nitrile
	R	Natural Rubber
	B	EPDM
	F	Viton®
Internal Parts	CS	Carbon Steel
	S	Stainless Steel

*The Stator Elastomers can be furnished in either: C – Carbon Steel Sleeve or S – Stainless Steel Sleeve.

Example: QC is for Buna Nitrile Elastomer with Carbon Steel Sleeve.

Packing Sets: All sets are Formed and Cut Rings.

Teflon coated: General Service to handle are Caustics, mild acids, chemicals, solvents, oils. Temperature to 300°, pH range 2-10.

Graphite: General Service to handle are Strong caustics, acids, chemicals and high pressure steam. Temperature to 1200° in steam and 800° in oxidizing atmospheres, pH range 0-14.

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Part	Part Name	Continental Pump Part Number	Materials
	Radial Grease Seal	PH0611CK	Steel
	Bearing Cover Plate	PH0341CK	Cast Iron
	O-Ring for Bearing Cover Plate	PH110QCK	Buna
	Drive Shaft Head	PH0971CK	Carbon Steel
	O-Ring for Shaft Head	BH111QCK	Buna
	Primary Thrust Plate	PH0981CK	Brass
	Rotor Keys (Set of 2)	RH0761CK	Carbon Steel
	Ring Gear	AH0952CK Not Sold Individually See P/N: KPH951CK	Carbon Steel

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Part	Part Name	Continental Pump Part Number	Materials
	Lock Nut	RH0581CK	Carbon Steel
	Gear Ball	AH0951CK Not Sold Individually See P/N: KPH951CK	Carbon Steel
	Secondary Thrust Plate	PH0982CK	Brass
	Seal Support	PH0891CK	Carbon Steel
	Gear Joint Seal	PH087QCK PH087BCK PH087FCK	Buna EPDM Viton
	Drive Shaft with Bearing Lock Nut (PG0581CK)	PH0261CK PH0266CK	Carbon Steel Stainless Steel
	Tapered Roller Bearing (Cone and Cup)	PH0311CK	Carbon Steel
	Bearing Spacer	PH0331CK	Carbon Steel

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Part	Part Name	Continental Pump Part Number	Materials
	Bearing Lock Plug	P10762CK	Steel
	Bearing Lock Nut	PH0581CK	Carbon Steel
	Thrust Grease Seal	PH0621CK	Steel
	Slinger Ring	PH0771CK	Buna
	Packing Gland Set	PH041DCK PH041SCK	Carbon Steel Stainless Steel
	Packing (Braided)	PH0423CK PH0427CK	Graphite PTFE Teflon PTFE
	Lantern Ring Set	PH0571CK	Plastic Teflon
	Bearing Housing	PH0051CK	Cast Iron

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Part	Part Name	Continental Pump Part Number	Materials
	Suction Housing Retaining Ring	AH0085CK	Steel
	Clamp Ring	AH0932CK	Cast Iron
	Suction Housing H036, H065, H090 and H115	PH0021CK PH0026CK	Cast Iron Stainless Steel
	Suction Housing H175	PH0031CK PH0032CK	Cast Iron Stainless Steel
	Stator 6H036 Carbon Steel	C360GQCK C360GBCK C360GRCK C360GFCK	Buna EPDM Natural Rubber Viton
	Stator 1H065 Carbon Steel	C310HQCK C310HBCK C310HRCK C310HFCK	Buna EPDM Natural Rubber Viton
	Stator 2H065 Carbon Steel	C320HQCK C320HBCK C320HRCK C320HFCK	Buna EPDM Natural Rubber Viton
	Stator 4H065 Carbon Steel	C340HQCK C340HBCK C340HRCK C340HFCK	Buna EPDM Natural Rubber Viton

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Part	Part Name	Continental Pump Part Number	Materials
	Stator 6H065 Carbon Steel	C360HQCK C360HBCK C360HRCK C360HFCK	Buna EPDM Natural Rubber Viton
	Stator 2H090 Carbon Steel	C3290QCK C3290BCK C3290RCK C3290FCK	Buna EPDM Natural Rubber Viton
	Stator 4H090 Carbon Steel	C3490QCK C3490BCK C3490RCK C3490FCK	Buna EPDM Natural Rubber Viton
	Stator 6H090 Carbon Steel	C3690QCK C3690BCK C3690RCK C3690FCK	Buna EPDM Natural Rubber Viton
	Stator 1H115 Carbon Steel	C310JQCK C310JBCK C310JRCK C310JFCK	Buna EPDM Natural Rubber Viton
	Stator 2H115 Carbon Steel	C320JQCK C320JBCK C320JRCK C320JFCK	Buna EPDM Natural Rubber Viton
	Stator 4H115 Carbon Steel	C340JQCK C340JBCK C340JRCK C340JFCK	Buna EPDM Natural Rubber Viton
	Stator 1H175 Carbon Steel	C310KQCK C310KBCK C310KRCK C310KFCK	Buna EPDM Natural Rubber Viton

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Part	Part Name	Continental Pump Part Number	Materials
	Stator 2H175 Carbon Steel	C320KQCK C320KBCK C320KRCK C320KFCK	Buna EPDM Natural Rubber Viton
	Stator Support H065, H090 and H115	BH0381CK	Cast Iron
	Stator Support H175	BJ0381CK	Cast Iron
	Inspection Plate	BF0171CK BF0176CK	Cast Iron Stainless Steel
	Inspection Plate Gasket	BF079QCK BF079BCK BF079FCK	Buna EPDM Viton
	Stator Gasket H065, H090 and H115	BH085QCK BH085BCK BH085FCK	Buna EPDM Viton
	Stator Gasket H175	BK085QCK BK085BCK BK085FCK	Buna EPDM Viton
	Stator Retaining Ring H065, H090 and H115	AH0085CK	Steel

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Part	Part Name	Continental Pump Part Number	Materials
	Stator Retaining Ring H175	AK0084CK	Steel
	Stator Ring Clip H065 and H090 (1, 2, 3, 4, and 6 Stage)	AH0932CK	Cast Iron
	Stator Clamp Ring H065 and H090 (1, 2, and 3 Stage)	AH0932CK	Cast Iron
	Stator Ring Clip H115 (1, 2, 3 and 4 Stage)	AH0932CK	Cast Iron
	Stator Clamp Ring H065 and H090 (4 and 6 Stage)	AH0993CK	Cast Iron
	Stator Ring Clip H175 (1, 2, and 3 Stage)	AK0932CK	Cast Iron
	Stator Clamp Ring H115 (4 Stage)	AH0932CK	Cast Iron
	Discharge Flange H065 and H090 (1, 2, and 3 Stage)	BH0121CK BH0126CK	Cast Iron Stainless Steel

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Part	Part Name	Continental Pump Part Number	Materials
	Discharge Flange H115 (1, 2, 3 and 4 Stage)	BH0121CK BH0126CK	Cast Iron Stainless Steel
	Discharge Flange H065 and H090 (4 and 6 Stage)	BH0122CK BH0127CK	Cast Iron Stainless Steel
	Discharge Flange H175 (1, 2 and 3 Stage)	BK0121CK BK0126CK	Cast Iron Stainless Steel
	Connecting Rod H065, H090 and H115	PH0251CK PH0256CK	Cast Iron Stainless Steel
	Connecting Rod H175	PH0252CK PH0257CK	Cast Iron Stainless Steel
	Gear Joint Shell	PH0911CK PH0916CK	Cast Iron Stainless Steel
	Rotor 1H065	C71HH1CK C81HH1CK	Cast Iron Stainless Steel
	Rotor 2H065	C72HH1CK C82HH1CK	Carbon Steel Stainless Steel

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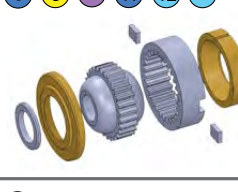
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Part	Part Name	Continental Pump Part Number	Materials
	Rotor 4H065	C74HH1CK C84HH1CK	Carbon Steel Stainless Steel
	Rotor 6H065	C76HH1CK C86HH1CK	Carbon Steel Stainless Steel
	Rotor 1H090	C71H91CK C81H91CK	Carbon Steel Stainless Steel
	Rotor 2H090	C72H91CK C82H91CK	Carbon Steel Stainless Steel
	Rotor 4H090	C74H91CK C84H91CK	Carbon Steel Stainless Steel
	Rotor 6H090	C76H91CK C86H91CK	Carbon Steel Stainless Steel
	Rotor 1H115	C71HJ1CK C81HJ1CK	Carbon Steel Stainless Steel
	Rotor 2H115	C72HJ1CK C82HJ1CK	Carbon Steel Stainless Steel

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Part	Part Name	Continental Pump Part Number	Materials
	Rotor 4H115	C74HJ1CK C84HJ1CK	Carbon Steel Stainless Steel
	Rotor 1H175	C71HK1CK C81HK1CK	Carbon Steel Stainless Steel
	Rotor 2H175	C72HK1CK C82HK1CK	Carbon Steel Stainless Steel
	O-Ring for Gear Joint Shell	PH113QCK PH113BCK PH113FCK	Buna EPDM Viton
	Head Ring (2 Piece) H065	PH033DCK PH033SCK	Carbon Steel Stainless Steel
	Head Ring (2 Piece) H090, H115 and H175	PH034DCK PH034SCK	Carbon Steel Stainless Steel
	Gear Joint Kit Includes: (RH0761) Rotor Keys (Set of 2), (AH0952) 1 Ring Gear, (AH0951) 1 Gear Ball, (PH0981) 1 Thrust Plate Primary, (PH0982) 1 Thrust Plate Secondary and (PH0891) Seal Supports	KPH951CK	Carbon Steel
	Gear Joint Seal Kit Includes: (PH087*) 2 Gear Joint Seals, (BH111*) 1 Drive Shaft Head O-Ring and (PH113*) 1 Rotor Head O-Ring * Select material code Q, B or F	KPH87QCK KPH87BCK KPH87FCK	Buna (Q) EPDM (B) Viton (F)

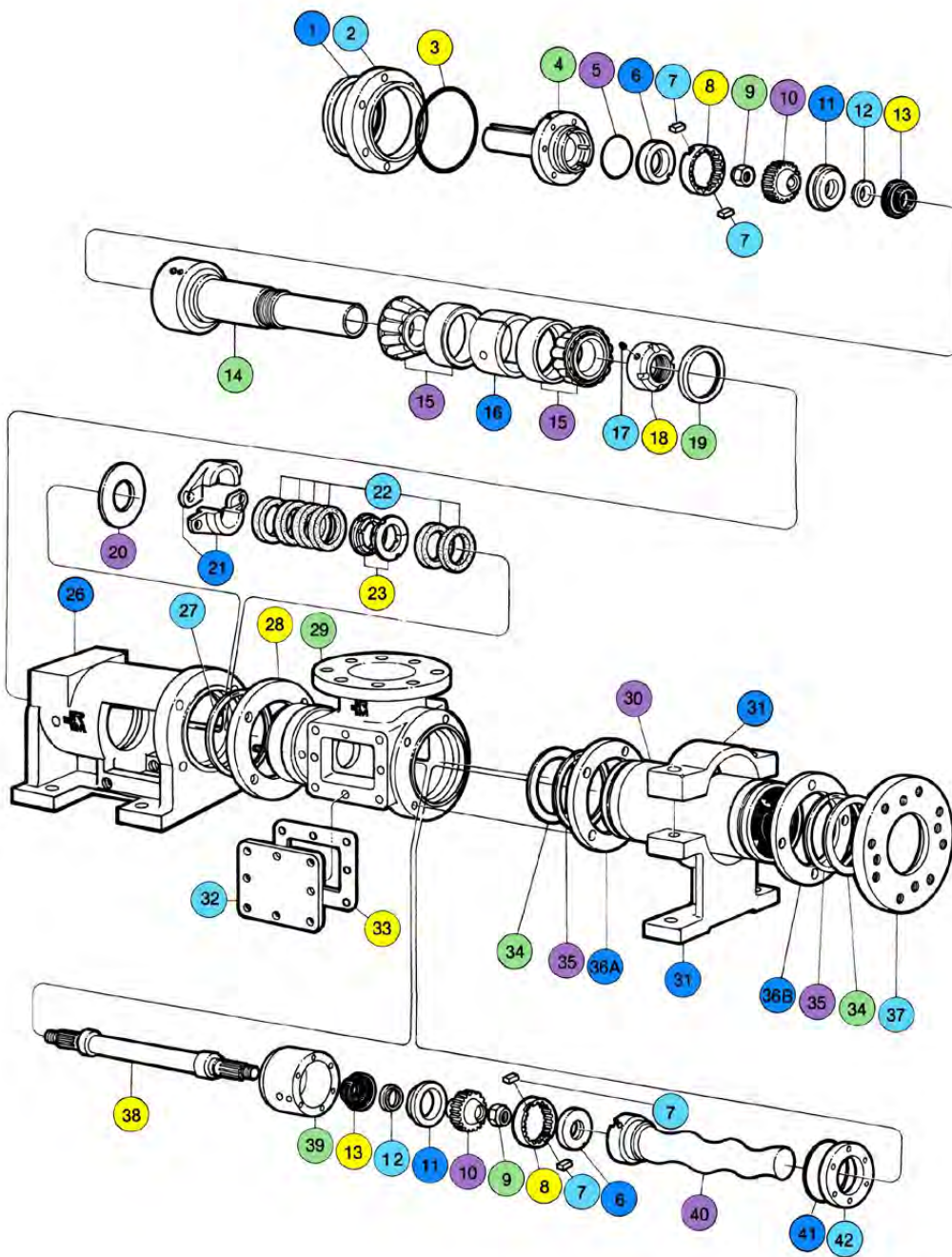
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Part	Part Name	Continental Pump Part Number	Materials
 5 12 13 41	Gear Joint Seal Kit (NEW STYLE) Includes: (PH087 *) 2 Gear Joint Seals, (PH0891) 2 Seal Supports, (BH111 *) 1 Drive Shaft Head O-Ring and (PH113 *) 1 Rotor Head O-Ring <i>* Select material code Q or F</i>	KPH88QCK KPH88FCK	Buna (Q) Viton (F)
 1 15 19	Bearing Kit (G1) Includes: (PH0311) 2 Roller Bearings, (PH0611) 1 Radial Grease Seal and (PH0621) 1 Thrust Grease Seal	KPH291CK	Carbon Steel

- 1 Radial Grease Seal
- 2 Bearing Cover Plate
- 3 O-Ring for Bearing Cover Plate
- 4 Drive Shaft Head
- 5 O-Ring for Shaft Head
- 6 Primary Thrust Plate
- 7 Rotor Key
- 8 Ring Gear
- 9 Lock Nut
- 10 Gear Ball
- 11 Secondary Thrust Plate
- 12 Seal Support
- 13 Gear Joint Seal
- 14 Drive Shaft
- 15 Tapered Roller Bearing
- 16 Bearing Spacer
- 17 Bearing Lock Plug
- 18 Bearing Lock Nut
- 19 Thrust Grease Seal
- 20 Slinger Ring
- 21 Packing Gland Set
- 22 Packing
- 23 Lantern Ring Set
- 26 Bearing Housing
- 27 Suction Housing Retaining Ring
- 28 Clamp Ring
- 29 Suction Housing
- 30 Stator
- 31 Stator Support
- 32 Inspection Plate
- 33 Inspection Plate Gasket
- 34 Stator Gasket
- 35 Stator Retaining Ring
- 36 A Stator Ring Clip
- 36 B Stator Clamp Ring
- 37 Discharge Flange
- 38 Connecting Rod
- 39 Gear Joint Shell
- 40 Rotor
- 41 O-Ring for Rotor Head
- 42 Head Ring



Gear Joint Kit (Includes quantity 1 each of part 6, 8, 10, 11, 12 and quantity of 2 of part 7.)

Bearing Kit (Includes quantity 1 each of part 1, 19 and quantity of 2 of part 15.)

Seal Kit 87 (Includes quantity 1 each of part 5, 41 and quantity of 2 of part 13.)

Seal Kit 88 (Includes quantity 1 each of part 5, 41 and quantity of 2 each of part 12, 13.)

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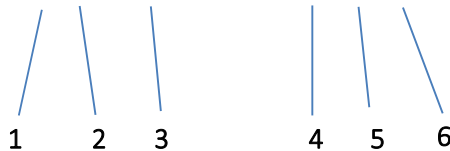
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CK 2000 Series Model Number Nomenclature:

Materials used in the pumps are based on the fluid to be handled and are indicated in the model number nomenclature.

2J345G1-CDQ



- (1): Indicates the number of stages for the rotor and stator
- (2): Indicates the drive end unit
- (3): Indicates the size of the rotor and stator
- (4): Indicates the pump body casting material
- (5): Indicates the rotor and internal parts material
- (6): Indicates the stator material

Continental Part Description	Continental Letter Designation	Part Materials
Pump Body	C	Cast Iron
	S	316 Stainless Steel (CF8M)
Rotor	D	Chrome Plated Alloy Steel
	S	Chrome Plated Stainless Steel
Stator*	Q	Buna Nitrile
	R	Natural Rubber
	B	EPDM
	F	Viton®
Internal Parts	CS	Carbon Steel
	S	Stainless Steel

*The Stator Elastomers can be furnished in either: C – Carbon Steel Sleeve or S – Stainless Steel Sleeve.

Example: QC is for Buna Nitrile Elastomer with Carbon Steel Sleeve.

Packing Sets: All sets are Formed and Cut Rings.

Teflon coated: General Service to handle are Caustics, mild acids, chemicals, solvents, oils. Temperature to 300°, pH range 2-10.

Graphite: General Service to handle are Strong caustics, acids, chemicals and high pressure steam. Temperature to 1200° in steam and 800° in oxidizing atmospheres, pH range 0-14.

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Part	Part Name	Continental Pump Part Number	Materials
	Radial Grease Seal	PJ0611CK	Steel
	Bearing Cover Plate	PJ0341CK	Cast Iron
	O-Ring for Bearing Cover Plate	BH114QCK	Buna
	Drive Shaft Head	PJ0971CK	Carbon Steel
	O-Ring for Shaft Head	TJ111QCK	Buna
	Primary Thrust Plate	PJ0981CK	Brass
	Rotor Keys (Set of 2)	RJ0761CK	Carbon Steel
	Ring Gear	AJ0952CK Not Sold Individually See P/N: KPH951CK	Carbon Steel

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Part	Part Name	Continental Pump Part Number	Materials
	Lock Nut	RJ0581CK	Carbon Steel
	Gear Ball	AJ0951CK Not Sold Individually See P/N: KPJ951CK	Carbon Steel
	Secondary Thrust Plate	PJ0982CK	Brass
	Seal Support	PJ0891CK	Carbon Steel
	Gear Joint Seal	PJ087QCK PJ087BCK PJ087FCK	Buna EPDM Viton
	Drive Shaft with Bearing Lock Nut (PG0581CK)	PJ0261CK PJ0266CK	Carbon Steel Stainless Steel
	Tapered Roller Bearing (Cone and Cup)	PJ0311CK	Carbon Steel
	Bearing Spacer	PJ0331CK	Carbon Steel

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Part	Part Name	Continental Pump Part Number	Materials
	Bearing Lock Plug	P10762CK	Steel
	Bearing Lock Nut	PJ0581CK	Carbon Steel
	Thrust Grease Seal	A14611CK	Steel
	Slinger Ring	PJ0771CK	Buna
	Packing Gland Set	PJ041DCK PJ041SCK	Carbon Steel Stainless Steel
	Packing (Braided)	PJ0423CK PJ0427CK	Graphite PTFE Teflon PTFE
	Lantern Ring Set	AJ0571CK	Plastic Teflon
	Bearing Housing	PJ0051CK	Cast Iron

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Part	Part Name	Continental Pump Part Number	Materials
	Suction Housing Retaining Ring	PJ0085CK	Steel
	Clamp Ring	PJ0932CK	Cast Iron
	Suction Housing J065, J090 and J115	PJ0021CK PJ0026CK	Cast Iron Stainless Steel
	Suction Housing J175	PJ0022CK PJ0027CK	Cast Iron Stainless Steel
	Suction Housing J345	PJ0031CK PJ0032CK	Cast Iron Stainless Steel
	Stator 6J065 Carbon Steel	C360HQCK C360HBCK C360HRCK C360HFCK	Buna EPDM Natural Rubber Viton
	Stator 6J090 Carbon Steel	C3690QCK C3690BCK C3690RCK C3690FCK	Buna EPDM Natural Rubber Viton
	Stator 1J115 Carbon Steel	C310JQCK C310JBCK C310JRCK C310JFCK	Buna EPDM Natural Rubber Viton

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Part	Part Name	Continental Pump Part Number	Materials
	Stator 2J115 Carbon Steel	C320JQCK C320JBCK C320JRCK C320JFCK	Buna EPDM Natural Rubber Viton
	Stator 4J115 Carbon Steel	C340JQCK C340JBCK C340JRCK C340JFCK	Buna EPDM Natural Rubber Viton
	Stator 6J115 Carbon Steel	C360JQCK C360JBCK C360JRCK C360JFCK	Buna EPDM Natural Rubber Viton
	Stator 1J175 Carbon Steel	C310KQCK C310KBCK C310KRCK C310KFCK	Buna EPDM Natural Rubber Viton
	Stator 2J175 Carbon Steel	C320KQCK C320KBCK C320KRCK C320KFCK	Buna EPDM Natural Rubber Viton
	Stator 4J175 Carbon Steel	C340KQCK C340KBCK C340KRCK C340KFCK	Buna EPDM Natural Rubber Viton
	Stator 1J220 Carbon Steel	C3120HQCK C3120HBCK C3120HRCK C3120HFCK	Buna EPDM Natural Rubber Viton
	Stator 2J220 Carbon Steel	C3220HQCK C3220HBCK C3220HRCK C3220HFCK	Buna EPDM Natural Rubber Viton

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Part	Part Name	Continental Pump Part Number	Materials
	Stator 1J345 Carbon Steel	C3145QCK C3145BCK C3145RCK C3145FCK	Buna EPDM Natural Rubber Viton
	Stator 2J345 Carbon Steel	C3245QCK C3245BCK C3245RCK C3245FCK	Buna EPDM Natural Rubber Viton
	Stator Support J065, J090 and J115	BH0381CK	Cast Iron
	Stator Support J175 and J220	BJ0381CK	Cast Iron
	Stator Support J345	BH0381CK	Cast Iron
	Inspection Plate	BH0171CK BH0176CK	Cast Iron Stainless Steel
	Inspection Plate Gasket	BH079QCK BH079BCK BH079FCK	Buna EPDM Viton
	Stator Gasket J065, J090 and J115	BH085QCK BH085BCK BH085FCK	Buna EPDM Viton

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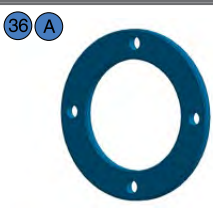
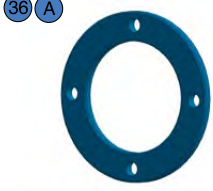
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Part	Part Name	Continental Pump Part Number	Materials
	Stator Gasket J175 and J345	BK085QCK BK085BCK BK085FCK	Buna EPDM Viton
	Stator Retaining Ring J065, J090 and J115	AH0085CK	Steel
	Stator Retaining Ring J175, J220 and J345	AK0084CK	Steel
	Stator Ring Clip J065 and J090 (6 and 9 Stage)	AH0932CK	Cast Iron
	Stator Clamp Ring J065 and J090 (6 and 9 Stage)	AJ0992CK	Cast Iron
	Stator Ring Clip J115 (1, 2, 3, 4 and 6 Stage)	AH0932CK	Cast Iron
	Stator Clamp Ring J115 (1, 2 and 3 Stage)	AH0932CK	Cast Iron
	Stator Ring Clip J175 (1, 2, 3 and 4 Stage)	AK0932CK	Cast Iron

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Part	Part Name	Continental Pump Part Number	Materials
	Stator Clamp Ring J115 (4 and 6 Stage)	AH0993CK	Cast Iron
	Stator Clamp Ring J175 (1, 2, 3 and 4 Stage)	AK0932CK	Cast Iron
	Discharge Flange J065 and J090 (6 and 9 Stage)	BJ0120CK BJ0125CK	Cast Iron Stainless Steel
	Discharge Flange J115 (1, 2, and 3 Stage)	BH0121CK BH0126CK	Cast Iron Stainless Steel
	Discharge Flange J115 (4 and 6 Stage)	BH0122CK BH0127CK	Cast Iron Stainless Steel
	Discharge Flange J175 (1, 2, 3 and 4 Stage)	BK0121CK BK0126CK	Cast Iron Stainless Steel
	Discharge Flange J220 (1, 2 and 3 Stage)	BK0121CK BK0126CK	Cast Iron Stainless Steel
	Connecting Rod J065, J090, J115, J175, J345 and J220	PJ0251CK PJ0256CK	Cast Iron Stainless Steel

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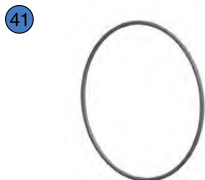
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Part	Part Name	Continental Pump Part Number	Materials
	Gear Joint Shell	PJ0911CK PJ0916CK	Cast Iron Stainless Steel
	Rotor 6J065	C76JH1CK C86JH1CK	Cast Iron Stainless Steel
	Rotor 6J090	C76J91CK C86J91CK	Carbon Steel Stainless Steel
	Rotor 1J115	C71JJ1CK C81JJ1CK	Carbon Steel Stainless Steel
	Rotor 2J115	C72JJ1CK C82JJ1CK	Carbon Steel Stainless Steel
	Rotor 4J115	C74JJ1CK C84JJ1CK	Carbon Steel Stainless Steel
	Rotor 1J175	C71JK1CK C81JK1CK	Carbon Steel Stainless Steel
	Rotor 2J175	C72JK1CK C82JK1CK	Carbon Steel Stainless Steel

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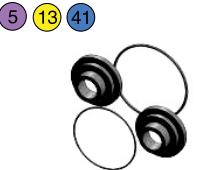
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Part	Part Name	Continental Pump Part Number	Materials
	Rotor 4J175	C74JK1CK C84JK1CK	Carbon Steel Stainless Steel
	Rotor 1J220	C71J21CK C81J21CK	Carbon Steel Stainless Steel
	Rotor 2J220	C72J21CK C82J21CK	Carbon Steel Stainless Steel
	Rotor 1J345	C71J41CK C81J41CK	Carbon Steel Stainless Steel
	Rotor 2J345	C72J41CK C82J41CK	Carbon Steel Stainless Steel
	O-Ring for Gear Joint Shell	PJ113QCK PJ113BCK PJ113FCK	Buna EPDM Viton
	Head Ring (2 Piece) J065, J090 and J115	PG033DCK PG033SCK	Carbon Steel Stainless Steel
	Head Ring (2 Piece) J175, J220 and J345	PJ034DCK PJ034SCK	Carbon Steel Stainless Steel

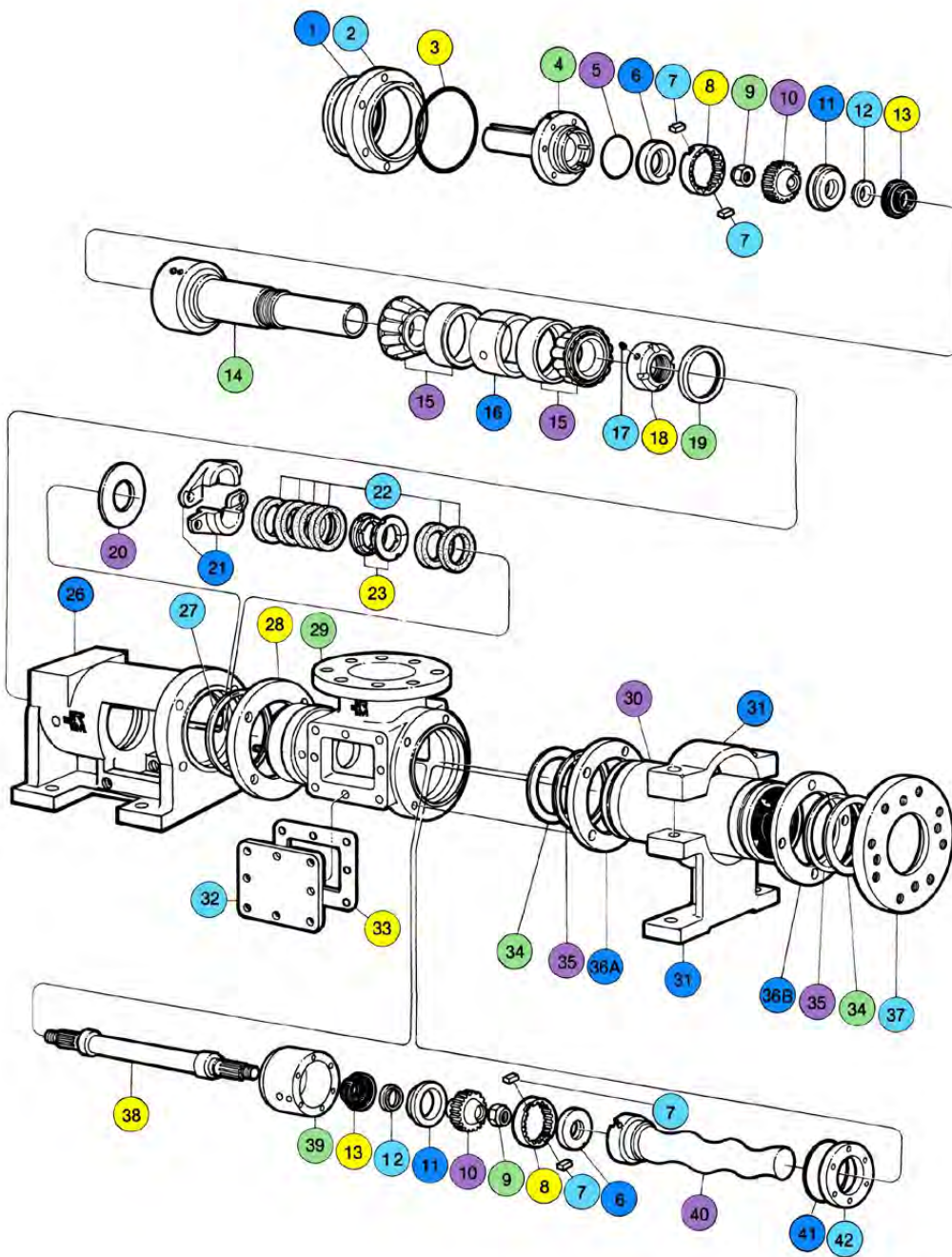
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Part	Part Name	Continental Pump Part Number	Materials
	Gear Joint Kit Includes: (RJ0761) Rotor Keys (Set of 2), (AJ0952) 1 Ring Gear, (AJ0951) 1 Gear Ball, (PJ0981) 1 Thrust Plate Primary, (PJ0982) 1 Thrust Plate Secondary and (PJ0891) Seal Supports	KPJ951CK	Carbon Steel
	Gear Joint Seal Kit Includes: (PJ087 *) 2 Gear Joint Seals, (TJ111 *) 1 Drive Shaft Head O-Ring and (BJ113 *) 1 Rotor Head O-Ring <i>* Select material code Q, B or F</i>	KPJ87QCK KPJ87BCK KPJ87FCK	Buna (Q) EPDM (B) Viton (F)
	Gear Joint Seal Kit (NEW STYLE) Includes: (PJ087 *) 2 Gear Joint Seals, (PJ0891) 2 Seal Supports, (TJ111 *) 1 Drive Shaft Head O-Ring and (PJ113 *) 1 Rotor Head O-Ring <i>* Select material code Q or F</i>	KPJ88QCK KPJ88FCK	Buna (Q) Viton (F)
	Bearing Kit (G1) Includes: (PJ0311) 2 Roller Bearings, (PJ0611) 1 Radial Grease Seal and (A14611) 1 Thrust Grease Seal	KPJ291CK	Carbon Steel

- 1 Radial Grease Seal
- 2 Bearing Cover Plate
- 3 O-Ring for Bearing Cover Plate
- 4 Drive Shaft Head
- 5 O-Ring for Shaft Head
- 6 Primary Thrust Plate
- 7 Rotor Key
- 8 Ring Gear
- 9 Lock Nut
- 10 Gear Ball
- 11 Secondary Thrust Plate
- 12 Seal Support
- 13 Gear Joint Seal
- 14 Drive Shaft
- 15 Tapered Roller Bearing
- 16 Bearing Spacer
- 17 Bearing Lock Plug
- 18 Bearing Lock Nut
- 19 Thrust Grease Seal
- 20 Slinger Ring
- 21 Packing Gland Set
- 22 Packing
- 23 Lantern Ring Set
- 26 Bearing Housing
- 27 Suction Housing Retaining Ring
- 28 Clamp Ring
- 29 Suction Housing
- 30 Stator
- 31 Stator Support
- 32 Inspection Plate
- 33 Inspection Plate Gasket
- 34 Stator Gasket
- 35 Stator Retaining Ring
- 36 A Stator Ring Clip
- 36 B Stator Clamp Ring
- 37 Discharge Flange
- 38 Connecting Rod
- 39 Gear Joint Shell
- 40 Rotor
- 41 O-Ring for Rotor Head
- 42 Head Ring



Gear Joint Kit (Includes quantity 1 each of part 6, 8, 10, 11, 12 and quantity of 2 of part 7.)

Bearing Kit (Includes quantity 1 each of part 1, 19 and quantity of 2 of part 15.)

Seal Kit 87 (Includes quantity 1 each of part 5, 41 and quantity of 2 of part 13.)

Seal Kit 88 (Includes quantity 1 each of part 5, 41 and quantity of 2 each of part 12, 13.)

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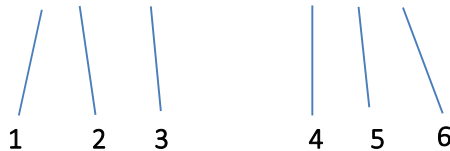
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CK 2000 Series Model Number Nomenclature:

Materials used in the pumps are based on the fluid to be handled and are indicated in the model number nomenclature.

1K620G1-CDQ



- (1): Indicates the number of stages for the rotor and stator
- (2): Indicates the drive end unit
- (3): Indicates the size of the rotor and stator
- (4): Indicates the pump body casting material
- (5): Indicates the rotor and internal parts material
- (6): Indicates the stator material

Continental Part Description	Continental Letter Designation	Part Materials
Pump Body	C	Cast Iron
	S	316 Stainless Steel (CF8M)
Rotor	D	Chrome Plated Alloy Steel
	S	Chrome Plated Stainless Steel
Stator*	Q	Buna Nitrile
	R	Natural Rubber
	B	EPDM
	F	Viton®
Internal Parts	CS	Carbon Steel
	S	Stainless Steel

*The Stator Elastomers can be furnished in either: C – Carbon Steel Sleeve or S – Stainless Steel Sleeve.

Example: QC is for Buna Nitrile Elastomer with Carbon Steel Sleeve.

Packing Sets: All sets are Formed and Cut Rings.

Teflon coated: General Service to handle are Caustics, mild acids, chemicals, solvents, oils. Temperature to 300°, pH range 2-10.

Graphite: General Service to handle are Strong caustics, acids, chemicals and high pressure steam. Temperature to 1200° in steam and 800° in oxidizing atmospheres, pH range 0-14.

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Part	Part Name	Continental Pump Part Number	Materials
	Radial Grease Seal	PK0611CK	Steel
	Bearing Cover Plate	PK0341CK	Cast Iron
	O-Ring for Bearing Cover Plate	PK110QCK	Buna
	Drive Shaft Head	PK0971CK	Carbon Steel
	O-Ring for Shaft Head	BK114QCK	Buna
	Primary Thrust Plate	PK0981CK	Brass
	Rotor Keys (Set of 2)	RK0761CK	Carbon Steel
	Ring Gear	AK0952CK Not Sold Individually See P/N: KPK951CK	Carbon Steel

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Part	Part Name	Continental Pump Part Number	Materials
	Lock Nut	RK0581CK	Carbon Steel
	Gear Ball	AK0951CK Not Sold Individually See P/N: KPK951CK	Carbon Steel
	Secondary Thrust Plate	PK0982CK	Brass
	Seal Support	PK0891CK	Carbon Steel
	Gear Joint Seal	PK087QCK PK087BCK PK087FCK	Buna EPDM Viton
	Drive Shaft with Bearing Lock Nut (PK0581CK)	PK0261CK PK0266CK	Carbon Steel Stainless Steel
	Tapered Roller Bearing (Cone and Cup)	PK0311CK	Carbon Steel
	Bearing Spacer	PK0331CK	Carbon Steel

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Part	Part Name	Continental Pump Part Number	Materials
	Bearing Lock Plug	P10762CK	Steel
	Bearing Lock Nut	PK0581CK	Carbon Steel
	Thrust Grease Seal	PK0621CK	Steel
	Slinger Ring	PK0771CK	Buna
	Packing Gland Set	PK041DCK PK041SCK	Carbon Steel Stainless Steel
	Packing (Braided)	PK0423CK PK0427CK	Graphite PTFE Teflon PTFE
	Lantern Ring Set	PK0571CK	Plastic Teflon
	Bearing Housing	PK0051CK	Cast Iron

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Part	Part Name	Continental Pump Part Number	Materials
	Suction Housing Retaining Ring	PK0085CK	Steel
	Clamp Ring	PK0932CK	Cast Iron
	Suction Housing K115, K175, K345 and K620	PK0021CK PK0026CK	Cast Iron Stainless Steel
	Suction Housing K800	PK0022CK PK0027CK	Cast Iron Stainless Steel
	Stator 6K115 Carbon Steel	C360JQCK C360JBCK C360JRCK	Buna EPDM Natural Rubber
	Stator 1K175 Carbon Steel	C310KQCK C310KBCK C310KRCK C310KFCK	Buna EPDM Natural Rubber Viton
	Stator 2K175 Carbon Steel	C320KQCK C320KBCK C320KRCK C320KFCK	Buna EPDM Natural Rubber Viton
	Stator 4K175 Carbon Steel	C340KQCK C340KBCK C340KRCK	Buna EPDM Natural Rubber

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Part	Part Name	Continental Pump Part Number	Materials
	Stator 6K175 Carbon Steel	C360KQCK C360KBCK C360KRCK	Buna EPDM Natural Rubber
	Stator 1K345 Carbon Steel	C3145QCK C3145BCK C3145RCK	Buna EPDM Natural Rubber
	Stator 2K345 Carbon Steel	C3245QCK C3245BCK C3245RCK	Buna EPDM Natural Rubber
	Stator 3K345 Carbon Steel	C3345QCK C3345BCK C3345RCK	Buna EPDM Natural Rubber
	Stator 1K620 Carbon Steel	C3162QCK C3162BCK C3162RCK	Buna EPDM Natural Rubber
	Stator 2K620 Carbon Steel	C3262QCK C3262BCK C3262RCK C3262FCK	Buna EPDM Natural Rubber Viton
	Stator 1K800 Carbon Steel	C3180QCK C3180BCK C3180RCK	Buna EPDM Natural Rubber
	Stator 2K800 Carbon Steel	C3280QCK C3280BCK C3280RCK	Buna EPDM Natural Rubber

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Part	Part Name	Continental Pump Part Number	Materials
	Stator Support K115	BK0382CK	Cast Iron
	Stator Support K175, K345 and K620	Bk0381CK	Cast Iron
	Stator Support K800	BK0383CK	Cast Iron
	Inspection Plate K115, K175, K345 and K620	BJ0171CK BJ0176CK	Cast Iron Stainless Steel
	Inspection Plate K880	BJ0172CK BJ0177CK	Cast Iron Stainless Steel
	Inspection Plate Gasket	BJ079QCK BJ079BCK BJ079FCK	Buna EPDM Viton
	Stator Gasket K115	BH085QCK BH085BCK BH085FCK	Buna EPDM Viton
	Stator Gasket K175, K345, K620 and K800	BK085QCK BK085BCK BK085FCK	Buna EPDM Viton

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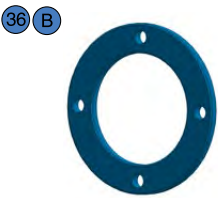
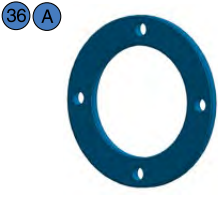
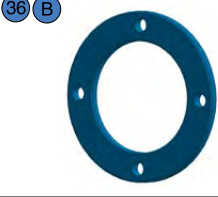
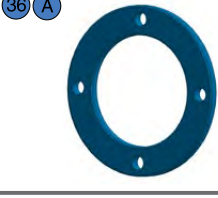
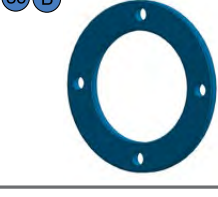
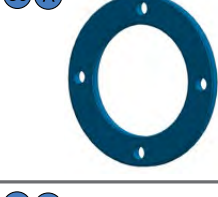
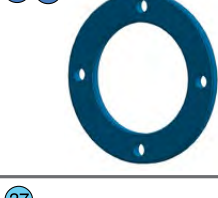
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Part	Part Name	Continental Pump Part Number	Materials
	Stator Retaining Ring K115	AH0084CK	Steel
	Stator Retaining Ring K175, K345 and K620	AK0084CK	Steel
	Stator Retaining Ring K800	AK0085CK	Steel
	Stator Ring Clip K115 (6 Stage)	AK0933CK	Cast Iron
	Stator Clamp Ring K115 (6 Stage)	AJ0992CK	Cast Iron
	Stator Ring Clip K175 (1, 2, 3, 4, and 6 Stage)	AK0932CK	Cast Iron
	Stator Clamp Ring K175 (4 and 6 Stage)	WK0932CK	Cast Iron
	Stator Ring Clip K345 and K620 (1 Stage)	AK0932CK	Cast Iron

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Part	Part Name	Continental Pump Part Number	Materials
	Stator Clamp Ring K345 and K620 (1 Stage)	AK0932CK	Cast Iron
	Stator Ring Clip K345 (2 and 3 Stage)	AK0932CK	Cast Iron
	Stator Clamp Ring K345 (2 and 3 Stage)	WK0932CK	Cast Iron
	Stator Ring Clip K620 (1 and 2 Stage)	AK0932CK	Cast Iron
	Stator Clamp Ring K620 (1 and 2 Stage)	AK0932CK	Cast Iron
	Stator Ring Clip K800 (1 and 2 Stage)	AK0934CK	Cast Iron
	Stator Clamp Ring K800 (1 and 2 Stage)	AK0934CK	Cast Iron
	Discharge Flange K115 (6 Stage)	BJ0120CK BJ0125CK	Cast Iron Stainless Steel

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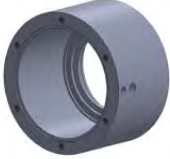
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Part	Part Name	Continental Pump Part Number	Materials
	Discharge Flange K175 (1, 2, and 3 Stage)	BK0121CK BK0126CK	Cast Iron Stainless Steel
	Discharge Flange K175 (4 and 6 Stage)	WK0121CK WK0126CK	Cast Iron Stainless Steel
	Discharge Flange K345 (1 Stage)	BK0121CK BK0126CK	Cast Iron Stainless Steel
	Discharge Flange K345 (2 and 3 Stage)	WK0121CK WK0126CK	Cast Iron Stainless Steel
	Discharge Flange K620 (1 and 2 Stage)	WK0121CK WK0126CK	Cast Iron Stainless Steel
	Discharge Flange K800 (1 and 2 Stage)	WK0122CK WK0127CK	Cast Iron Stainless Steel
	Connecting Rod K115, K175, K345 and K620	PK0251CK PK0256CK	Cast Iron Stainless Steel
	Connecting Rod K800	PK0252CK PK0257CK	Cast Iron Stainless Steel

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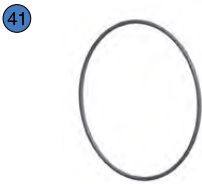
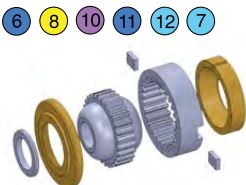
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Part	Part Name	Continental Pump Part Number	Materials
	Gear Joint Shell	PK0911CK PK0916CK	Cast Iron Stainless Steel
	Rotor 6K115	C76KJ1CK C86KJ1CK	Cast Iron Stainless Steel
	Rotor 1K175	C71KK1CK C81KK1CK	Carbon Steel Stainless Steel
	Rotor 2K175	C72KK1CK C82KK1CK	Carbon Steel Stainless Steel
	Rotor 4K175	C74KK1CK C84KK1CK	Carbon Steel Stainless Steel
	Rotor 6K175	C76KK1CK C86KK1CK	Cast Iron Stainless Steel
	Rotor 1K345	C71341CK C81341CK	Carbon Steel Stainless Steel
	Rotor 2K345	C72341CK C82341CK	Carbon Steel Stainless Steel

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Part	Part Name	Continental Pump Part Number	Materials
	Rotor 3K345	C73341CK C83341CK	Carbon Steel Stainless Steel
	Rotor 1K620	C71621CK C81621CK	Carbon Steel Stainless Steel
	Rotor 2K620	C72621CK C82621CK	Carbon Steel Stainless Steel
	Rotor 1K800	C71801CK C81801CK	Carbon Steel Stainless Steel
	Rotor 2K800	C72801CK C82801CK	Carbon Steel Stainless Steel
	O-Ring for Gear Joint Shell	PK113QCK PK113BCK PK113FCK	Buna EPDM Viton
	Head Ring (2 Piece) K115, K175, K345, K620 and K800	PK033DCK PK033SCK	Carbon Steel Stainless Steel
	Gear Joint Kit Includes: (RK0761) Rotor Keys (Set of 2), (AK0952) 1 Ring Gear, (AK0951) 1 Gear Ball, (PK0981) 1 Thrust Plate Primary, (PK0982) 1 Thrust Plate Secondary, (KJ0891) 1 Seal Supports	KPK951CK	Carbon Steel

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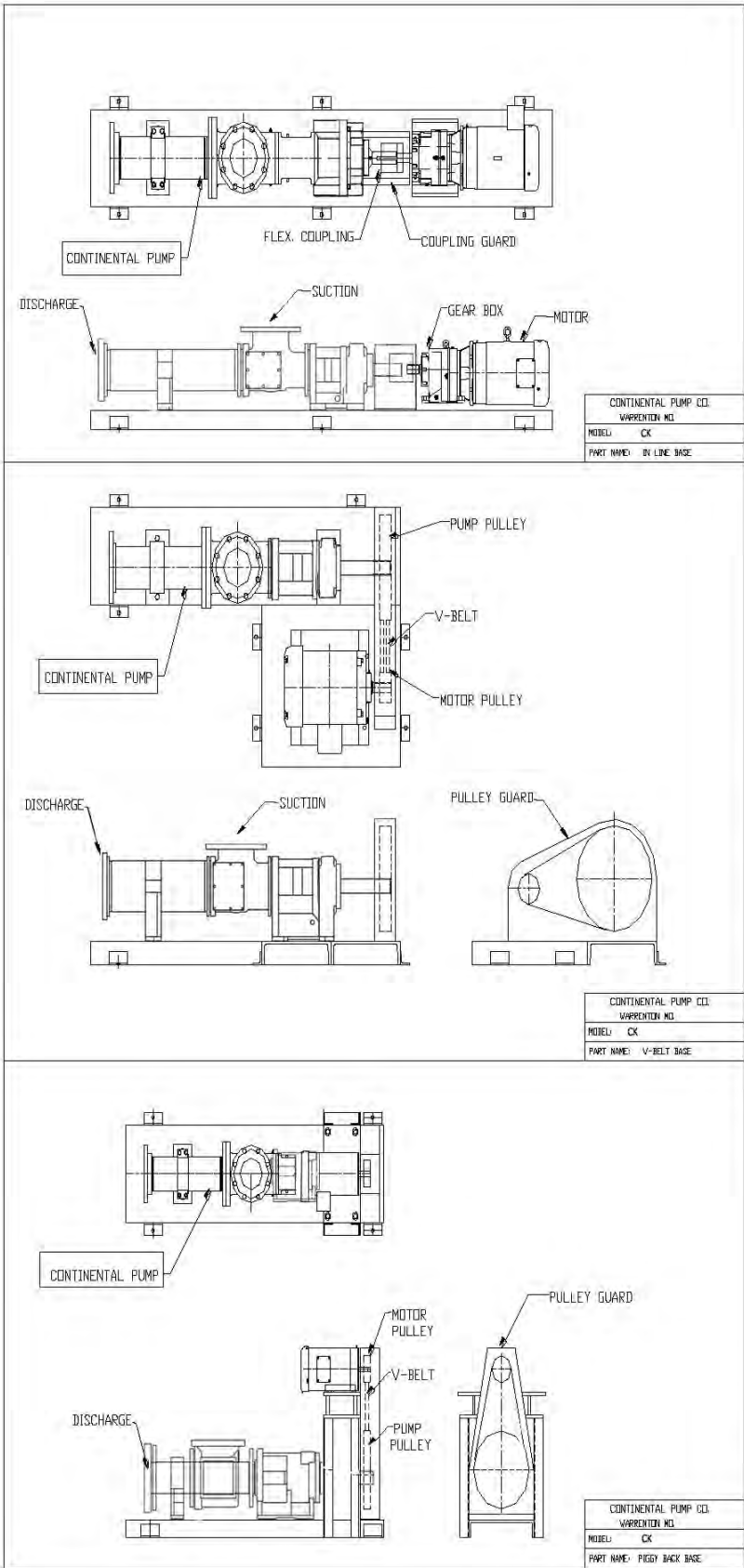
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Part	Part Name	Continental Pump Part Number	Materials
	Gear Joint Seal Kit Includes: (PK087*) 2 Gear Joint Seals, (TK111*) 1 Drive Shaft Head O-Ring and (PK113*) 1 Rotor Head O-Ring * Select material code Q, B or F	KPK87QCK KPK87BCK KPK87FCK	Buna (Q) EPDM (B) Viton (F)
	Gear Joint Seal Kit (NEW STYLE) Includes: (PK087*) 2 Gear Joint Seals, (PK0891) 2 Seal Supports, (TK111*) 1 Drive Shaft Head O-Ring and (PK113*) 1 Rotor Head O-Ring * Select material code Q or F	KPK88QCK KPK88FCK	Buna (Q) Viton (F)
	Bearing Kit (G1) Includes: (PK0311) 2 Roller Bearings, (PK0611) 1 Radial Grease Seal and (AK0611) 1 Thrust Grease Seal	KPK291CK	Carbon Steel

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Continental CK Model pumps and parts are interchangeable with many progressing cavity pump brands.

Please contact one of our application specialists at (636)-456-6006 Mon-Fri 8AM-5PM CST for more information.