

Grundfos Pumps-Leaders in Innovation



The Complete CR Multistage In Line Pump

- Offered in flow ranges up to 650 gpm and discharge pressures of 350 psig.
- Stainless steel impellers are "stacked" to meet your flow and pressure requirements. Most centrifugal pumps require cutting the impeller to meet your requirements.
- Save 30% or more by buying the pump matched to meet your flow and pressure requirements.
- All internal parts are stainless steel. Bodies offered in cast iron through titanium for most any service requirement.
- Motor also offered with variable frequency drive and built in pressure controller and sensor to precisely match the pump to your exact flow requirements in demanding applications.
- Quick delivery on standard models.

Boiler Feed
Systems

Process Water
Systems

Pressure
Boosting

Chilled Water
Systems

Water
Treatment

Oils, Alcohols,
Acids, Alkalis

Fire Sprinkler
Systems

Hot Water
Systems

Equipment
Cooling

HVAC
Systems

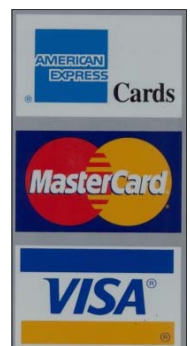
Cooling
Towers

Liquids Under
2000 CP



CONTROL SPECIALTIES

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We are never closed-phones answered 24 hours per day!
Proudly Serving Our Customers Since 1987



All pumps eventually fail and require replacement of internal parts. Grundfos multistage pumps require two parts to completely rebuild the pump:

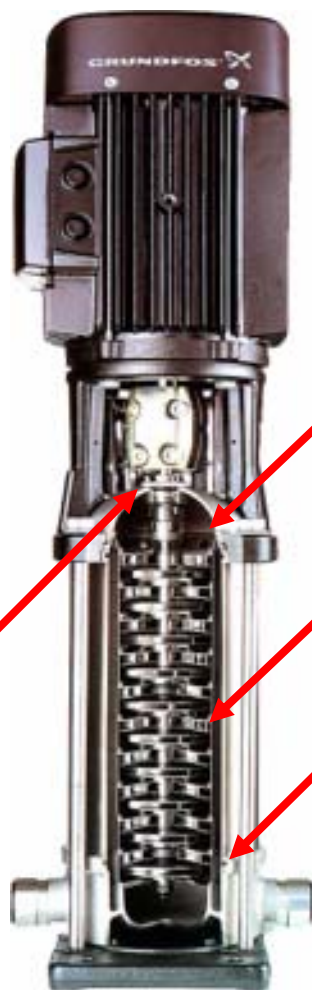
- A Stack Kit
- A Seal

Seal



**CR Series
Multistage
Pump**

**Stack
Kit**



Both the stack kit and seal come completely assembled. A new seal can be replaced in about 10 minutes and a complete stack kit can be replaced in less than one hour.

The durable seal is made from hard wearing materials which prevent downtime and extend seal life. We know that even with the best of materials that the seal will require replacement. Minimizing downtime is part of reliable operation. On large pumps where the motor weight is more than 75 lbs, the seal can be replaced without removal of the motor! On smaller pumps, four bolts will permit removal of the motor and the seal is easily change with a socket or spanner type wrench.

Replacement of the stack kit, if required involves removing four more nuts, removing the top cap, pulling the old stack kit, and replacing it with a new stack kit. No fussy tolerances, frozen bolts, or critical alignments to fuss with.



Reduce Your Pump Operating Costs

Electricity is the most expensive part of any pump—a simple fact often overlooked when purchasing a pump.

Total lifetime costs for operating a pump are about 15% to buy the pump and maintain the pump. Electrical costs account for the other 85% of the total cost.

Grundfos CR pumps due to their unique design of matching the required number of impellers for your application needs, are much more efficient than single stage centrifugal pumps. Typical power reductions are 15-20% for Grundfos multistage pumps. Electrical savings are significant; see the table at right for typical savings.

Typical Application	Typical service per day	Operating hours per day	Average electrical savings
Water supply	350 gpm @ 85 psig	24 hours	18,500 kwh
Boiler feed	175 gpm @ 225 psig	15 hours	12,700 kwh
Water treatment	10 gpm @ 225 psig	15 hours	3,200 kwh
Industrial washing and cleaning	25 gpm @ 225 psig	5 hours	1,600 kwh
General plant pump application	25 gpm @ 145 psig	10 hours	2,200 kwh

Select the right CR pump for your application



CR

AISI 304 stainless steel with cast iron top and base.



CRI

AISI 304 stainless steel throughout on all wetted parts.



CRN

AISI 316 stainless steel throughout on all wetted parts.



CRT

Titanium throughout on all wetted parts.

Variable Speed Pumps

Do you need constant pressure, differential pressure, stable pH levels, specific temperatures, carefully timed operation? The CRE pump combines a VFD drive, controller, and sensor in one complete package to meet your application needs. Since the pump speed is matched to the requirement, electrical consumption is further reduced. Lower speeds also means longer service life. CRE pumps can be remote controlled or linked to data management systems.



UPS Inline Circulator Pumps

Grundfos UPS circulator pumps are designed for HVAC service and other applications which require circulation or a modest pressure boost.

Compared to B&G, Taco, and other brands of pumps, Grundfos pumps will not leak. All pumps come with an internal arrangement to allow you to select one of three operating speeds for the pump to match your requirements. Pump housings are offered in cast iron, bronze, and stainless steel.

UPS series pumps start at less than \$200 and are designed to provide years of trouble free service. Flow ranges are up to 46 gpm and discharge pressures of 37 feet of head. Bodies are designed for a maximum working pressure of 145 psig and 230 F.



Grundfos is a Danish Company owned by an employee trust. Significant funds due to this ownership arrangement are allocated each year to R&D and manufacturing technology. Grundfos is one of the three largest pump companies in the world.

US operations include facilities in Olathe Kansas, Fresno California, and Allentown Pennsylvania.

Grundfos manufactures a very wide range of pumps for service up to 2000 centipoises viscosity.

Next time you need to replace a pump, save money and operating costs with a Grundfos pump.

Control Specialties is your one stop location for your pump requirements.

