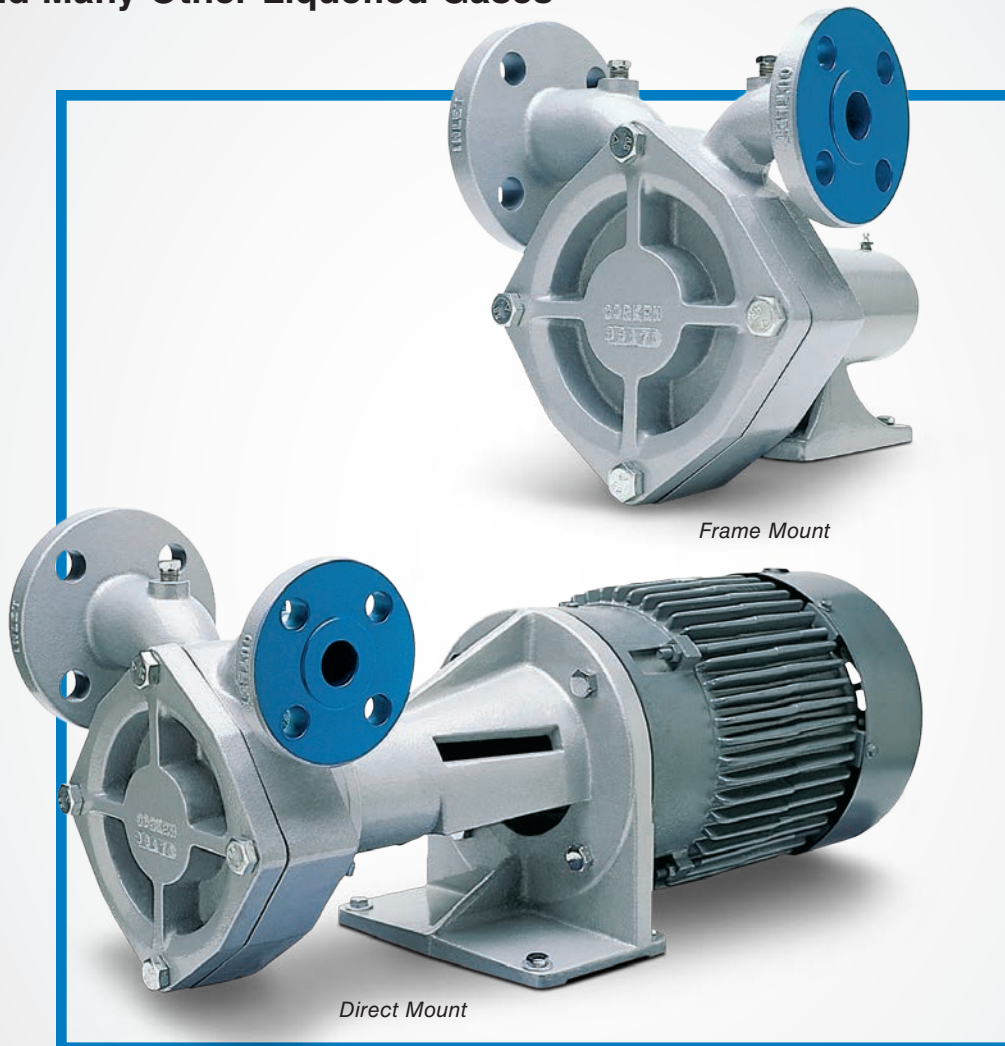


Autogas Series

Coro-Flo® Regenerative Turbine Pumps

For High Differential Pressure Applications Using
LPG and Many Other Liquefied Gases



Solutions beyond products...

CORKEN®
IDEX

A Tradition of Excellence

Corken is recognized as a global leader in the manufacture of industrial compressors, pumps, and accessories for flammable, volatile, and toxic liquids and gases. Our exceptional reputation in the process, energy, and transportation industries is built upon decades of maintaining the highest quality and customer service standards. This, combined with an absolute dedication to product performance, makes us recognized worldwide for our manufacturing leadership.

Located in Oklahoma City, Oklahoma, USA, Corken was founded in 1924 and quickly gained a reputation for excellence in customer service. In the early 1940s, the company entered the liquid petroleum gas (LPG) industry, which proved to be a turning point. In the years to follow, Corken quickly gained market recognition for its quality line of compressors and pumps for the propane, butane, and anhydrous ammonia industries.



In 1991, Corken became part of the IDEX Corporation. IDEX is a global fluid handling leader and is best known for its expertise in highly engineered fluid handling products and systems, fire safety equipment, and health and science products.

Through the years, a strong commitment to customer service, product integrity, and technological innovation have made Corken a world leader in the compressor and pump markets.

Corken designs and manufactures products meeting industry standards, including Underwriters Laboratories (UL), Canadian Standards Association (CSA), High Pressure Gas Safety Institute of Japan (KHK), Bureau Veritas of France, European Union (EU) Pressure Equipment Directive (PED), ATEX

Equipment Directive, European Union (EU) Machinery Directive and many others. We are also proud to be a part of an elite group of companies that have achieved registration with the International Quality Standard ISO 9001 and the Environmental Management Standard ISO 14001.

Today, Corken is a diversified company serving a broad customer base. Our truck pumps, stationary pumps, compressors, and engineered packages are used throughout the world, including the Far East, Asia, Africa, Europe, Middle East, South America, and North America. Our customers are served through an extensive network of distribution partners—each sharing the same commitment to customer service that we have demonstrated for more than 90 years.



A Cost Effective Alternative to Submersible Designs

Meeting global demands for autogas applications...

In our continuous effort to meet the global demands by underground and aboveground tank applications, the autogas series is now available in three sizes. The model 060 and 075 are designed for one dual hose dispenser while the model 150 is designed for two dual hose dispensers. Whether you require a low or high flow rate with a high differential pressure, Corken has the pump for your application.

Continuous duty design...

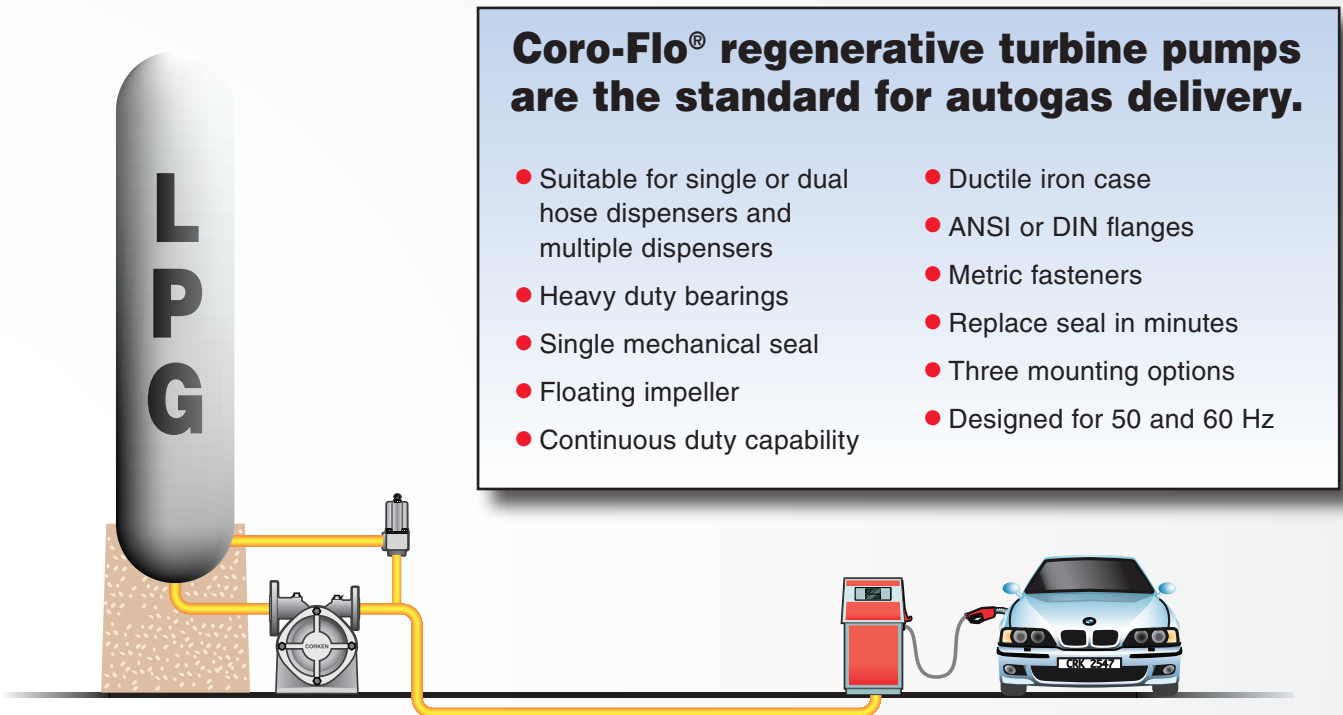
Built for continuous duty service, the autogas series incorporates heavy duty bearings, free floating impeller, a single mechanical seal, ANSI or DIN flange connections, metric fasteners, and a ductile iron case.

Multiple mounting options...

The autogas series is available with two mounting options. You may select a frame mount for direct or belt drive configurations or a direct mount that bolts to a standard C-Face 50 Hz (2880 RPM) or 60 Hz (3450 RPM) motor.

Serviceability is simple and cost effective...

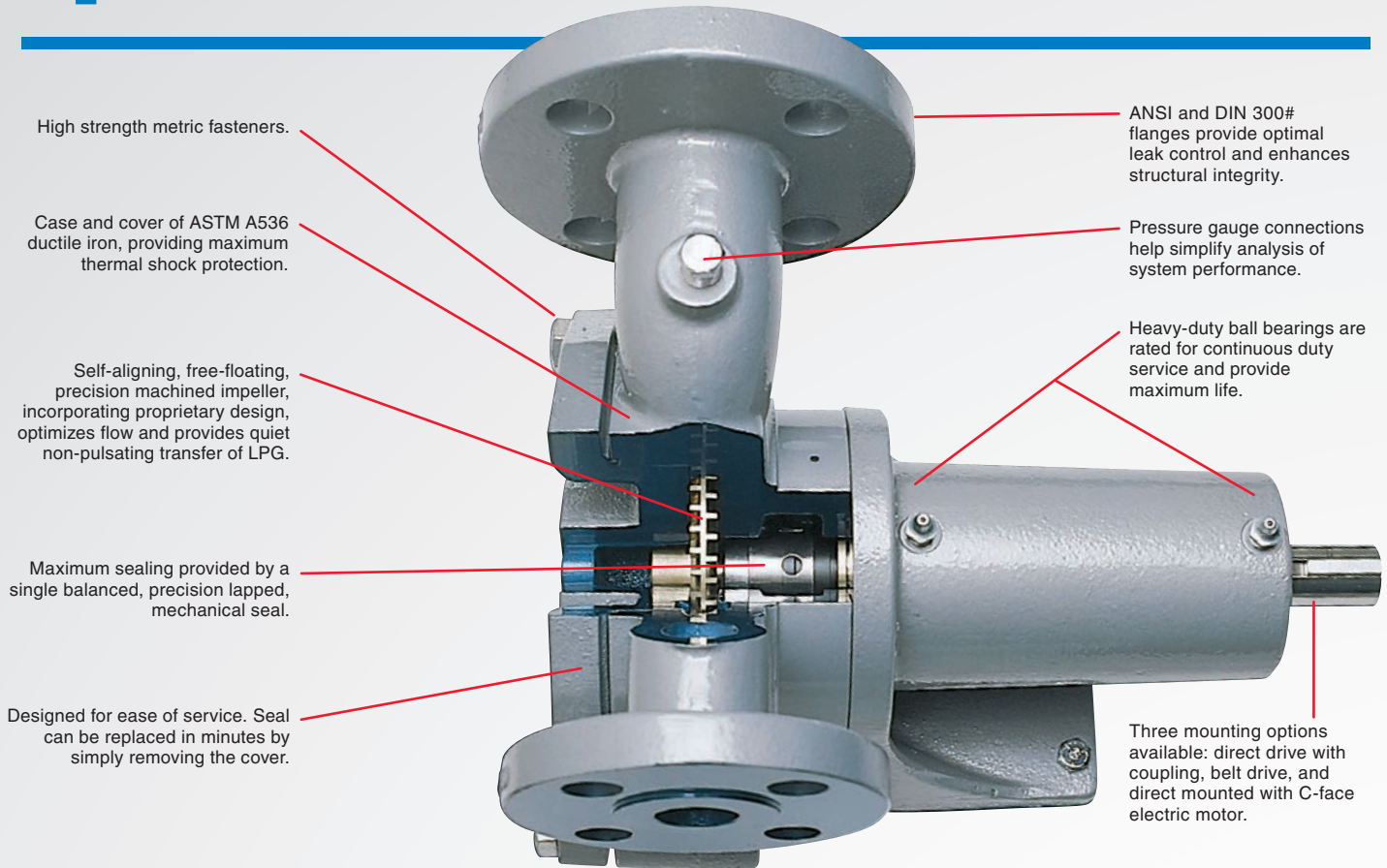
The autogas series a cost effective alternative to submersible designs. Unlike submersible pumps, the autogas series is mounted aboveground so there is no need to disturb the piping and all parts are easily accessed by simply removing the pump head. These features allow you to quickly service the pump on site and minimize costly downtime.



Coro-Flo® regenerative turbine pumps are the standard for autogas delivery.

- Suitable for single or dual hose dispensers and multiple dispensers
- Heavy duty bearings
- Single mechanical seal
- Floating impeller
- Continuous duty capability
- Ductile iron case
- ANSI or DIN flanges
- Metric fasteners
- Replace seal in minutes
- Three mounting options
- Designed for 50 and 60 Hz

Features, Benefits, and Specifications



High strength metric fasteners.

Case and cover of ASTM A536 ductile iron, providing maximum thermal shock protection.

Self-aligning, free-floating, precision machined impeller, incorporating proprietary design, optimizes flow and provides quiet non-pulsating transfer of LPG.

Maximum sealing provided by a single balanced, precision lapped, mechanical seal.

Designed for ease of service. Seal can be replaced in minutes by simply removing the cover.

ANSI and DIN 300# flanges provide optimal leak control and enhances structural integrity.

Pressure gauge connections help simplify analysis of system performance.

Heavy-duty ball bearings are rated for continuous duty service and provide maximum life.

Three mounting options available: direct drive with coupling, belt drive, and direct mounted with C-face electric motor.

Specification	All Models 060, 075 and 150
Inlet	1-1/2" - ANSI 300# R.F. flange (DIN optional)
Outlet	1" - ANSI 300# R.F. flange (DIN optional)
RPM	3450 at 60 Hz or 2880 at 50 Hz
Max. working pressure	27.6 bar (400 psig)
Max. differential pressure ¹	Model 060: 10.3 bar (150 psig) at 60 Hz Model 075: 13.8 bar (200 psig) at 60 Hz Model 150: 17.2 bar (250 psig) at 60 Hz
Flow range	Model 060: 8.0 – 23 (30.1 – 87.1 L/min) Model 075: 8.5 – 40 (32.2 – 151.4 L/min) Model 0150: 11 – 60 (41.6 – 227.1 L/min)
Max./min. temperature	107°C (225°F) / -32°C (-25°F)
Impeller material	Bronze (standard)
O-ring material	Buna-N (standard)
Seal seat material	Silicon carbide (standard)
Maximum driver	15 kW (20 hp)
Type of electric motor ²	Rigid-base (frame mount) and C-face (direct mount)

Applications:

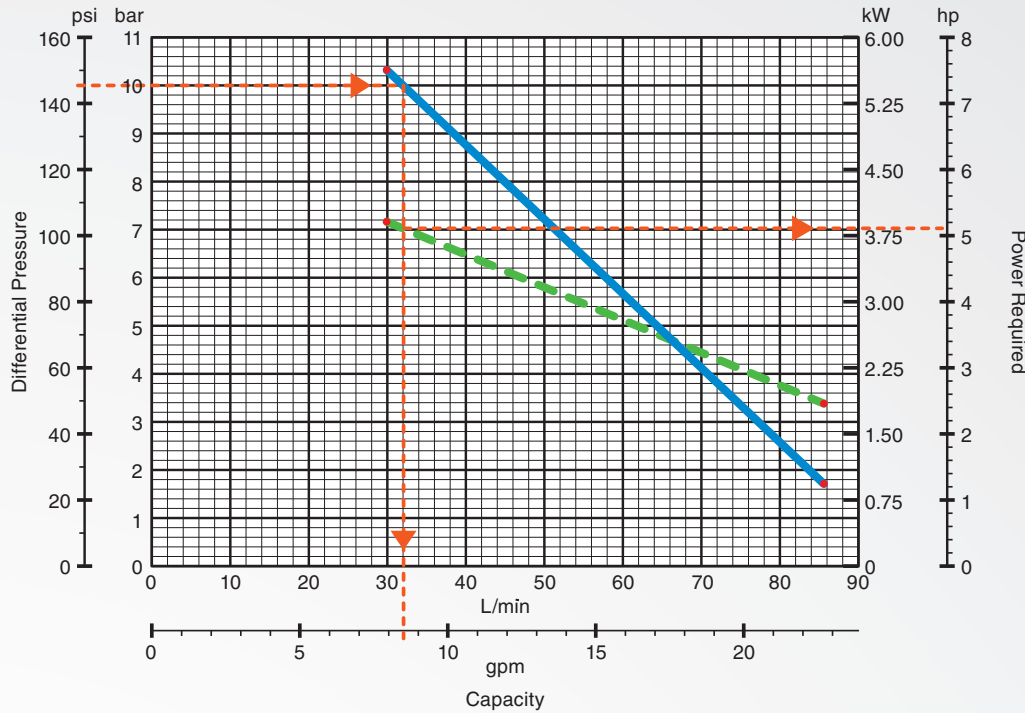
- Autogas dispensing
- Cylinder filling
- Vaporizer feed
- Bulk transfer
- Direct burner feed
- Aerosol propellant

¹ Maximum discharge pressure should be limited to the maximum system pressure rating.

² Consult factory regarding other types of motors.

Autogas Series Performance

Performance Curves for Model 060 Coro-Flo® Pumps¹



3450 RPM @ 60 Hz

Differential pressure:

10.0 bar

145.0 psi

Flow:

32.2 L/min

8.5 gpm

Power required:

3.8 kW

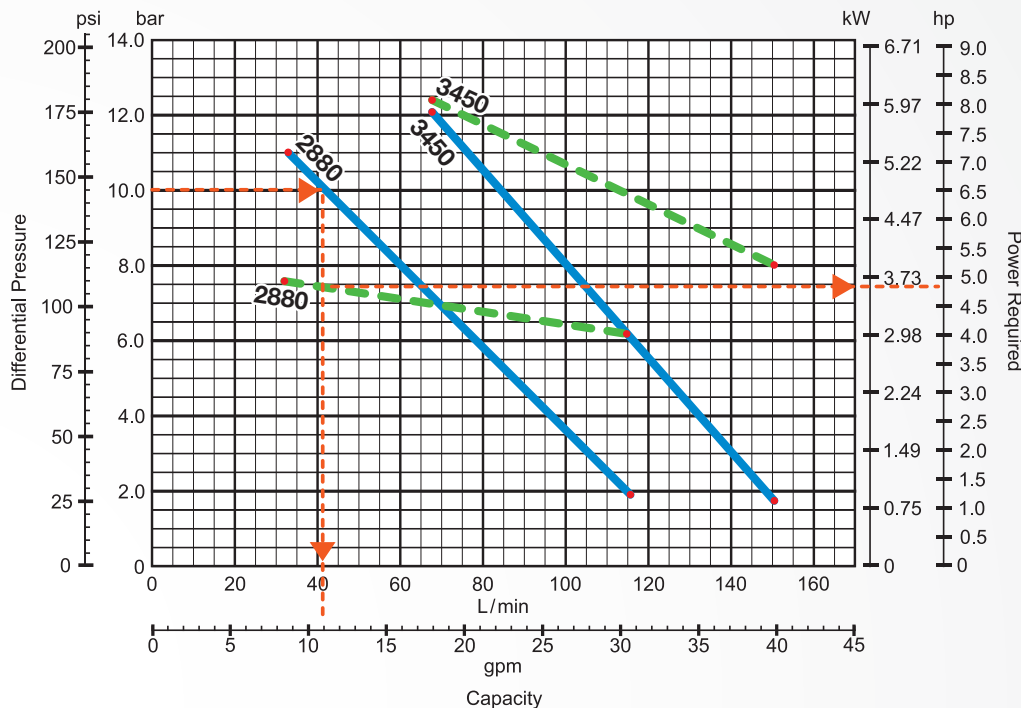
5.15 hp

Curves based on LPG¹

Capacity ————

Power required - - - -

Performance Curves for Model 075 Coro-Flo® Pumps¹



2880 RPM @ 50 Hz

Differential pressure:

10.0 bar

145.0 psi

Flow:

42 L/min

11 gpm

Power required:

3.65 kW

4.9 hp

Curves based on LPG¹

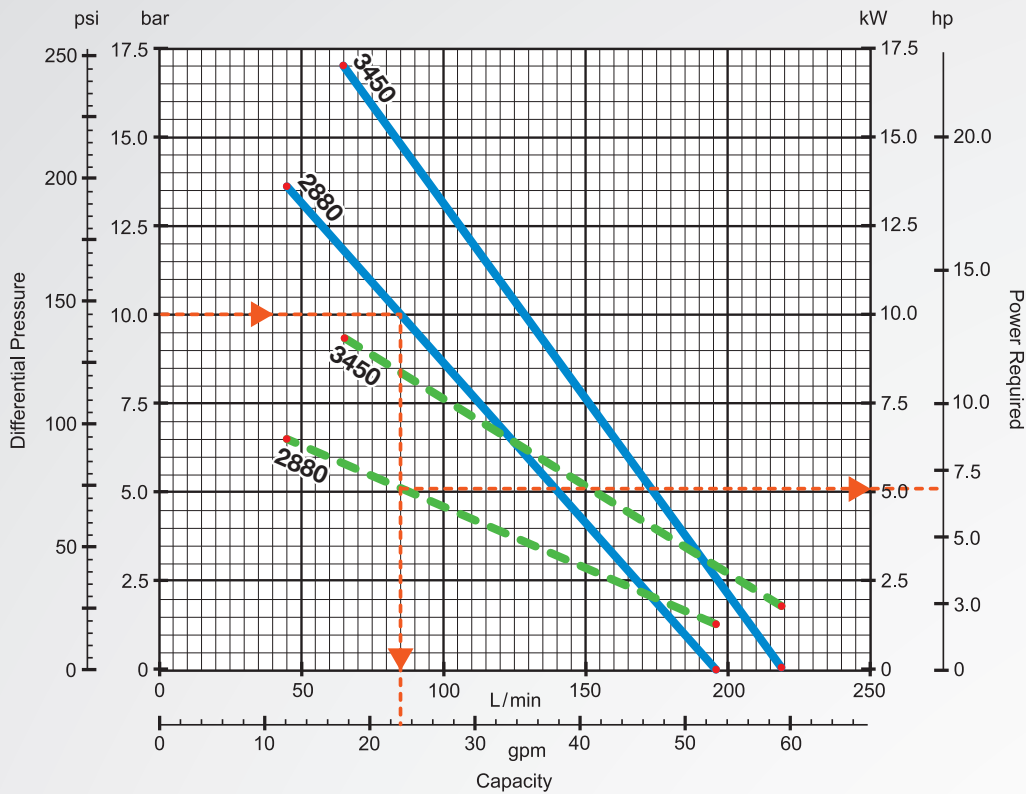
Capacity ————

Power required - - - -

¹The performance curves are based on above-ground LPG installations. Performance curves for underground LPG tanks will vary based on the specific installation. Consult factory.

Autogas Series Performance

Performance Curves for Model 150 Coro-Flo® Pumps¹



2880 RPM @ 50 Hz

Differential pressure:
10.0 bar
145.0 psi

Flow:
85 L/min
22.5 gpm

Power required:
5.1 kW
6.8 hp

Curves based on LPG¹

Capacity ————

Power required - - - -

¹The performance curves are based on above-ground LPG installations. Performance curves for underground LPG tanks will vary based on the specific installation. Consult factory.



Aboveground autogas installation using one autogas series pump with two tanks.



Designed for Underground and Aboveground Tank Applications



Underground autogas installation using one autogas series pump with one tank.



Underground autogas installation using one autogas series pump with two tanks.



Underground autogas installation using one autogas series pump with one tank.





Aboveground autogas installation using one autogas series pump with three tanks.



Underground autogas installation with one tank. Corken's autogas series pump replaced a previously installed submersible design.

Solutions beyond products...

CORKEN
IDEX

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