



Specialist for Pumping Technology



CRP

Single Stage, End Suction, ISO Process Pump

+75 years developing the pumping technology that drives progress

Ruhrpumpen is an innovative and efficient pump technology company that offers highly engineered, custom made solutions for oil & gas, chemical processing, power generation, industrial applications and water.

Implementation of cutting-edge technology and world-class engineering, combined with our unique vertically integrated structure, allows Ruhrpumpen to design complex technical solutions, creating the most robust and powerful pump systems in the marketplace.

Our broad product line complies with the most demanding quality standards and industry specifications such as **American Petroleum Institute (API), American National Standards Institute (ANSI), Underwriter's Laboratories (UL), Factory Mutual (FM), National Fire Protection Association (NFPA), ISO and Hydraulic Institute.**

Products Include:

- Single stage overhung pumps
- Vertical in-line pumps
- Single and multi-stage between bearing pumps
- Multi-stage vertical pumps
- Reciprocating plunger pumps
- Sealless magnetic drive pumps
- Fire protection systems
- Pitot tube pumps
- Hydraulic decoking systems
- Horizontal pumping systems



Ruhrpumpen is your single source supplier

- Original Equipment
- Spare parts
- Installation and startup support
- Repair and maintenance
- Engineering, training and consulting
- Reverse engineering

Benefits of our pumps

- Proven reliability
- High efficiency designs ensure lowest operating cost
- Robust design allows for long system life with minimal maintenance
- Optimized total cost of ownership

CRP Process Pump

The CRP pump is designed to meet DIN EN ISO 2858 / 5199 specifications and directive 94/9/EG (ATEX 100). This pump is intended for our European customers.

All CRP pumps are designed around a single, basic hydraulic and mechanical design concept. This ensures efficiencies across a wide spectrum of operating conditions, unmatched application flexibility and superior interchangeability. This rugged centrifugal pump is designed to operate dependably for long periods of time, even in the toughest industrial applications.

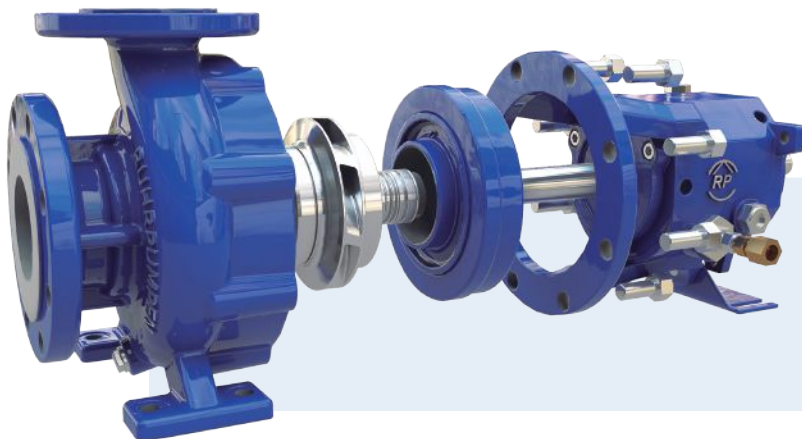
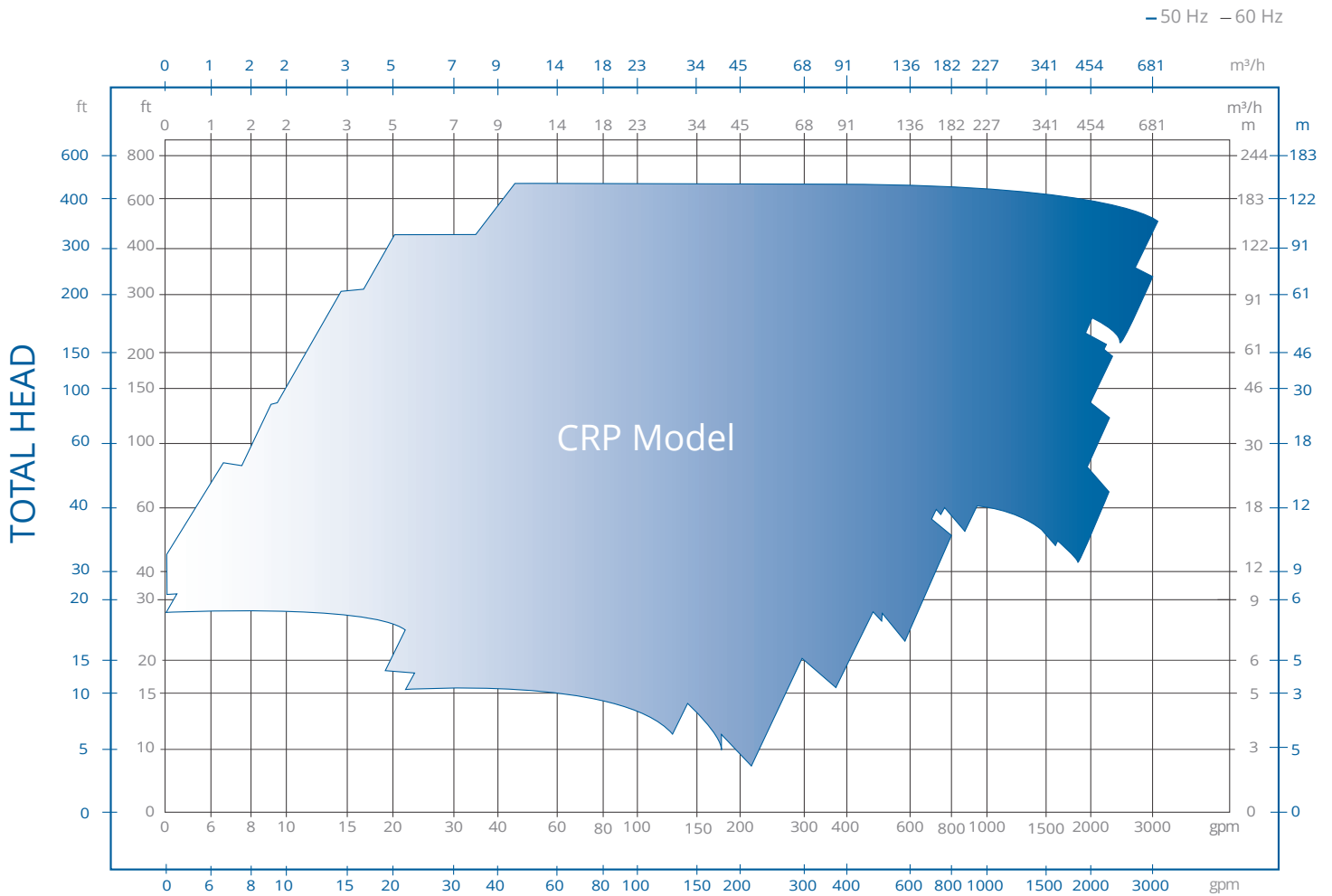
The CRP line features 33 sizes to precisely meet service conditions within a wide range of hydraulic parameters. The line was also designed to accommodate many different optional features such as wear rings on the pressure casing and cooling coils for bearing housings.

Ruhrpumpen's quality program and in-house Foundry, along with the latest testing equipment, ensures that our pumps will provide a long operating life, even under the most severe conditions.



Performance Range

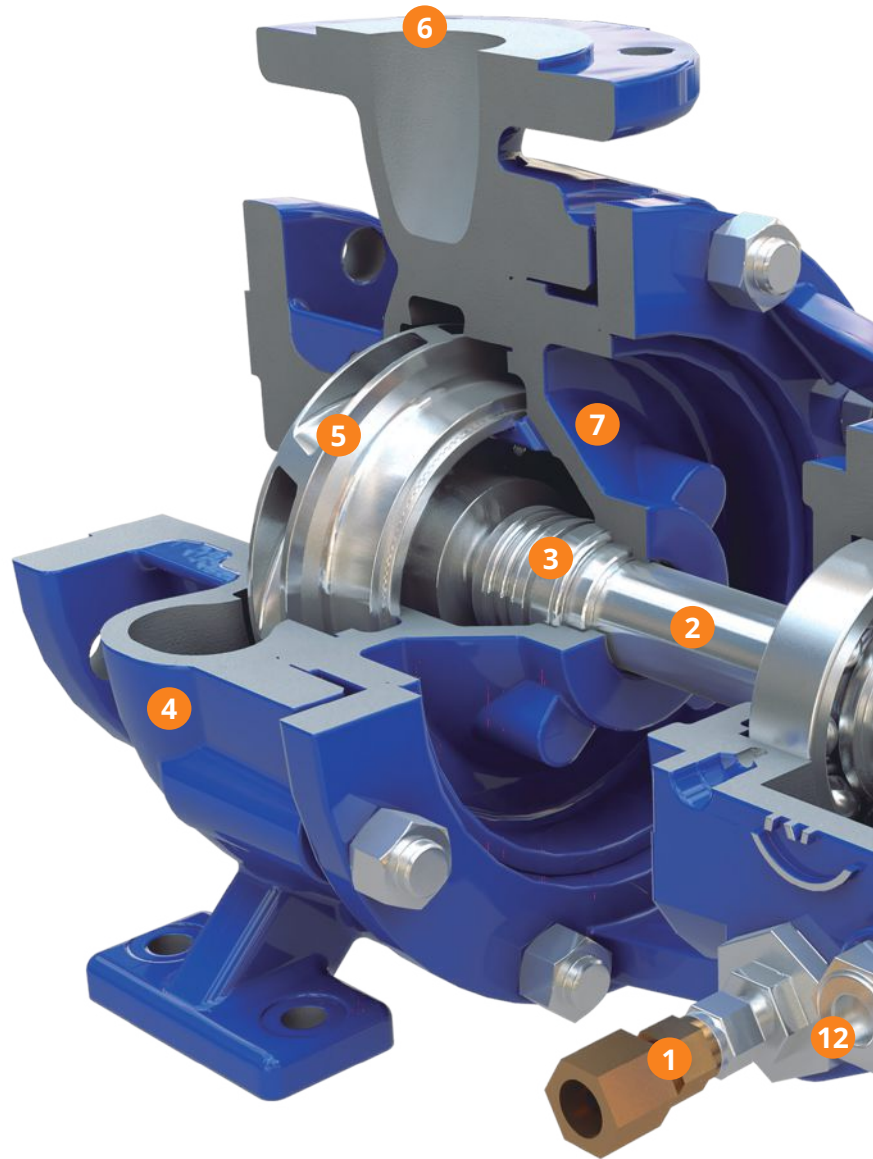
SELECTION CHART CRP



**Back Pull-Out
Configuration Design**

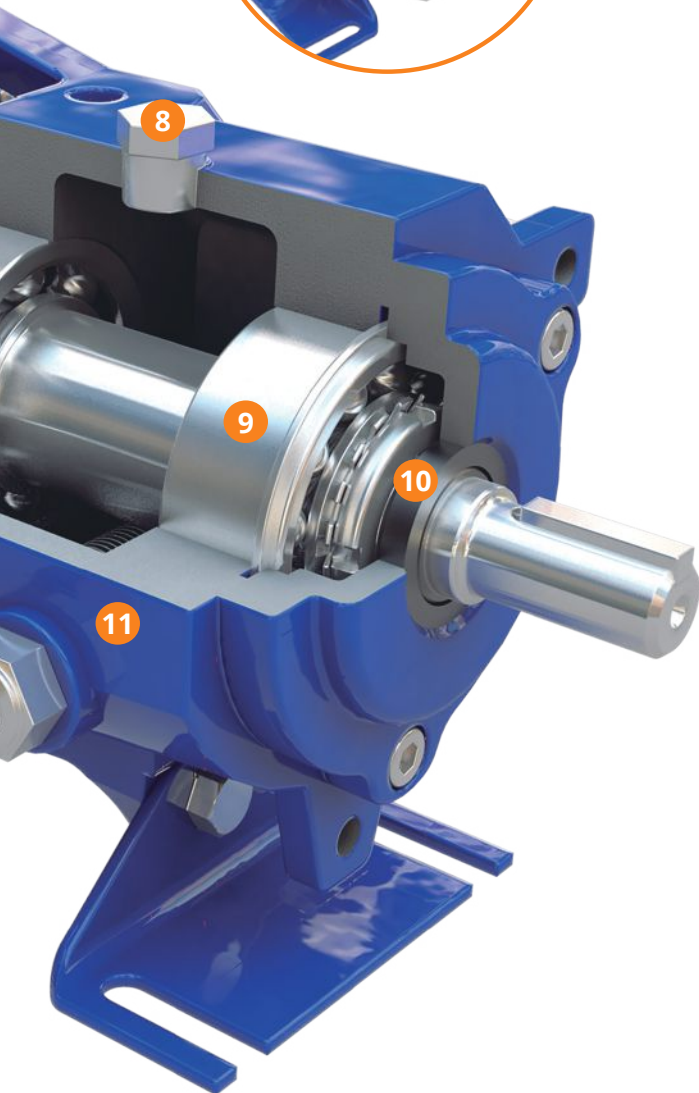
Characteristics

- 1 COOLING COIL**
Connected to a water source, the optional coil cools the lube oil for optimal performance.
- 2 SHAFT**
316SS solid shaft as standard for extended seal life. Large diameter and short length design to reduce shaft deflection.
- 3 MECHANICAL SEAL**
Standard mechanical seal Type 2100, includes a circlip. Dual or Cartidge Seals available as an Option.
- 4 CASING**
Integrally cast support feet minimize alignment problems caused by the case movement due to temperature differences between operating and ambient conditions.
- 5 IMPELLER**
Enclosed impeller design ensures maximum efficiency. The impeller itself is keyed and is positively locked onto shaft and sealed.
- 6 FLANGES**
ISO PN16 and PN25 flange drilling as well as ASME 150RF are available.
- 7 CASING COVER**
Stuffing box covers many kinds of mechanical seal applications. Internal or external, double or single, balanced or unbalanced seals, with any required gland connections.
- 8 VENT PLUG**
Vent Plug as standard. Vent filter with oil mist lubrication available as option.
- 9 BEARINGS**
The double row thrust bearing provides minimal shaft end play for extended mechanical seal life.
- 10 SEAL**
Standard Lip/Seal bearing Isolators.
- 11 BEARING BRACKET**
The bearings are oil-lubricated as standard. Grease and oil mist lubrications are optional.
- 12 OIL SIGHT**
Oversized oil sight glass mounted on one side of the bearing unit. Constant Level Oilers available as an option.



OPTIONAL FEATURES

- Double mechanical seals can be furnished
- Constant Level Oiler
- Cooling Coil available
- Grease and oil mist lubricated bearings



DESCRIPTION

- Fully in compliance with DIN EN 22858/ISO 2858.
- Single stage horizontal centrifugal pump.
- Radially split casing with flanged connections.
- Horizontal end suction and vertical discharge on the center line.
- Foot mounted.
- Enclosed impeller.
- Clockwise rotation (viewed from coupling end).
- Oil lubricated.
- Casing and casing cover wear ring replaceable.

BENEFITS

- Back Pull-Out design for ease of maintenance, allows removal of pump assembly without disturbing casing flange connections.
- Optimum efficiency.
- Various materials of construction available.
- Durable mechanical seal.
- Compact design.

MATERIALS OF CONSTRUCTION

- Carbon steel.
- Duplex.
- Stainless steel.

PERFORMANCE DATA

Capacity	up to 500 m ³ /h	up to 2,200 gpm
Head	up to 215 m	up to 705 ft
Pressure	up to 25 bar	up to 360 psi
Temperature	up to 300°C	up to 572°F

Notes:

For pump operations outside this range, please contact a Ruhrpumpen Representative.










Images for general arrangement use only, not certified for construction.

+75 years creating the pumping technology that moves our world

Ruhrpumpen is an innovative and efficient pump technology company that offers highly-engineered and standard pumping solutions for the oil & gas, power generation, industrial, water and chemical markets. We offer a broad range of centrifugal and reciprocating pumps that meet and exceed the requirements of the most demanding quality specifications and industry standards such as API, ANSI, UL, FM, ISO and Hydraulic Institute.



Ruhrpumpen Plants

-  ARGENTINA, Buenos Aires
-  BRAZIL, Rio de Janeiro
-  CHINA, Changzhou
-  EGYPT, Suez
-  GERMANY, Witten
-  INDIA, Chennai
-  MEXICO, Monterrey
-  UK, Lancing
-  USA, Tulsa

-  *Manufacturing plant & service center*
-  *Service center*