KelairPumps

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RHEINHÜTTE Pumpen CPDR & RCNKu

WHEN PUMP KNOWLEDGE MATTERS

A versatile standard series for the most demanding applications.

RHEINHÜTTE PUMPEN
An ITT Brand

CPDR and RCNKu: two names, one concept.

Small and large - CPDR and RCNKu. The two types differ from each other in their detailed design and manufacture. Materials and sealings are the same.

Conveyance requirements can be flexibly and economically met with a wide range of 21 different pump sizes with capacities of up to 2,500m³/h. The pump size and materials will be specifically selected to meet your requirements. Flow-optimised hydraulic systems ensure efficiency and economy.

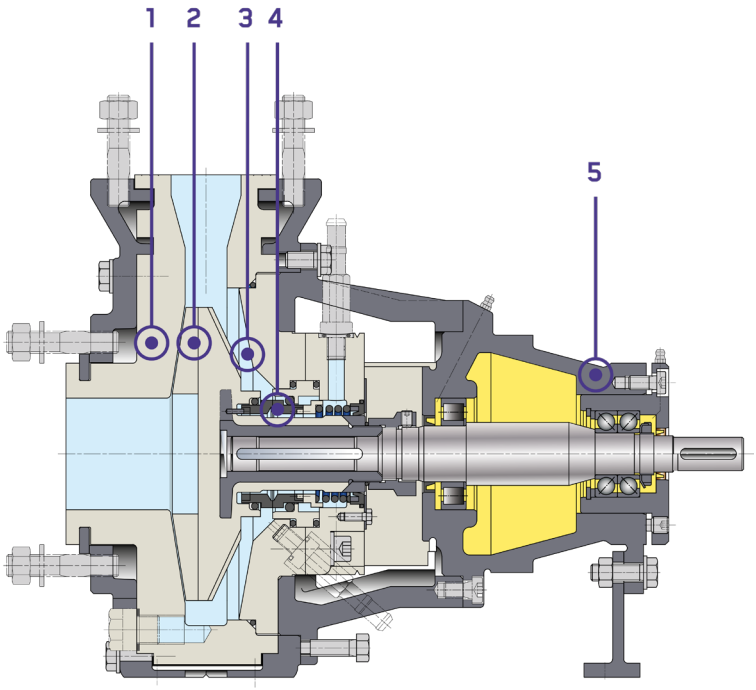
Rheinhutte standardised chemical pumps in plastic are interchangeable with every other standardised chemical pump of the same size.

DESIGN FEATURES

- Design: horizontal, single-stage; end suction, top discharge
- Construction: back-pull-out design according to ISO 2858
- Casing design: single volute casing
- Bearing lubrication: oil or grease lubrication
- Installation versions: base frame welded or base plate cast
- Temperature range: -20°C to +60°C
- Max. solids content: approx. 5% (with free flow design approx. 30%)

MAIN FEATURES

1. The process-oriented design enables wearing parts to be quickly and easily replaced.
2. Large volumes of solids, gaseous components, fibres and gross contaminants prohibit the use of rotary pumps. But vortex pumps meet this conveyance challenge without problems. The impeller is only indirectly involved in accelerating the medium, leading to corresponding reduction in wear. Toleration of even gaseous components in the fluid to be pumped is significantly enhanced. Large passage widths allow more operating reliability.
3. Seals optimised for their flow and wear characteristics enable the pumps to convey media containing up to 5% solids.
4. Mechanical seal concept that is suitable for crystallizing, hot or solids bearing media. An optimised design ensures that seals can be easily installed or removed and are economic in use.
5. A robust bearing bracket ensures only minor deflection on the shaft and a long working life for the roller bearings and the mechanical seal - even when working at the limit of its capability.

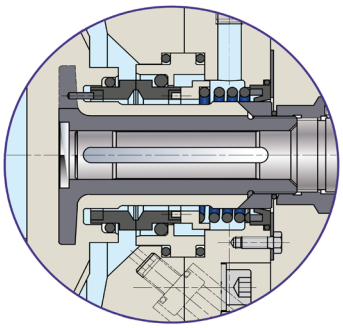


PLASTIC MATERIALS

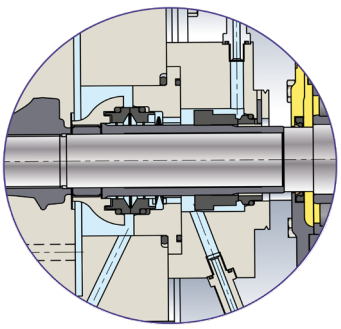
Plastic is a variable material ensuring excellent resistance. The CPDR and RCNKu are available in six differen plastics:

- PP - Polypropylene
- PE 1000 (UHMWPE) - Polyethylene
- PE 1000R - Polyethylene
- PVDF - Polyvinylidene fluoride
- PTFE - Polytetrafluoroethylene
- Polymercarbid (Mineral casting)

CPDR with single mechanical seal (CS)



RCNKu with double mechanical seal (CST)



APPLICATIONS

- Chemical waste water
- Chloralkali electrolysis
- Fertilizer production
- Seawater
- Flue gas scrubber (waste incinerators)
- Brine
- Hydrochloric acid
- Sulphuric acid
- Steel industry
- Scrubber

TECHNICAL DATA

	CPDR	RCNKu
Size DN	32 to 80	80 to 400
Q_{max} m³/h	200	2.500
H_{max} m	100	100
Temperature °C	-30 to +190	
Normen	EN 22858, ISO 2858, ISO 5199	
Open impeller	Standard	-
Closed impeller	-	Standard
Vortex impeller	CPRF	RCFKu
Flange motor design	CPDRB	-
Seal	Mechanical seal	

We know the importance of choosing the right equipment to match your process. Whatever your pump requirements, we will help you achieve the best pumping solution.

When Pump Knowledge Matters