Vertical pumps in the R1 & R14 series

The **R** series pumps are specially designed for a wide range of chemical fluid applications.

Because of their **vertical** design with customised long shaft and base plate, the **R** series pumps can be used on all types and sizes of tanks.

Assembly with single or multiple stage open impellers allow using the **R** series pumps with **clear or suspended-solid liquid** applications.

LIMITS OF USE

- Flow rate:
- Total head:

100 l/h to 100 m3/h <105 m

- Operating temperature:
 - Nominal pressure:
- Speed:

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- 40°C to + 350°C < 10 bar
- < 3600 rpm

Nodular Cast Iron or

Stainless Steel 316L

Nodular Cast Iron

Aramid

Nodular Cast Iron or

Stainless Steel 316L

Stainless Steel 329LN

simple or double (back to back

or tandem)

ATEX Certification:

SPECIFICATIONS (can be modified according to your needs) PRODUCT FAMILIES

(€x) || 2 G || B T3/T4

Basic components

- Pump body
- Cover/diffuser/flange
- Impeller
- Shaft
- Gasket

Tightness

- Mechanical seal
 - Lubrication Process fluid
 - Friction face SiC/C
 - O-ring FPM
- Magnetic coupling

Motor

- Three-phase or single-phase

R1

- Motor with ball-bearing lantern and intermediate bush bearing

- Bottom bush bearing
- Tightness using lip seals or mechanical seal
- H < 3 m

R14 - Motor with ball-bearing lantern

- Without intermediate block for loaded products
- H < 1 m

R4SELF-PRIMINGPUMP



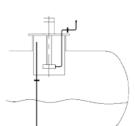
The R4 pump has a vertical centrifugal pump with and open impeller located in a chamber and easily tolerates suspendedparticulate liquids.

This pump operates under the principle of negative pressure; the tightness's single function is to stop air from entering and the liquid from exiting (*no risk of liquid pollution to the outside elements*).

Traditional locations for this type of pump is on the edge of a pit or tank, or directly on a cistern. It comes in different materials:

- Stainless steel (316L, Duplex, Hastelloy...)
- Plastic (PP, PVDF...)

The R4 series pumps are self-priming and their technology allows for pumping regular or suspended solid liquids and all while ensuring complete protection of the environment.



BUSINESS ACTIVITIES AND PRINCIPAL USE

Chemical and fine chemicals industries - Pharmaceutical industry - Cosmetic industry - Paper-making industry - Nuclear industry - Integration companies - Cement works - Transferring corrosive liquids or solvents - Tank unloading...

POMPES GROSCLAUDE

