

## RDLO – Axially split Volute Casing Pump



### Applications:

For handling pure, raw and industrial water as well as seawater in

- Water works
- Irrigation and drainage pumping stations
- Power stations
- Industrial water supply
- General applications in the petrochemical industry
- Marine and offshore engineering
- Seawater desalination

### More information:

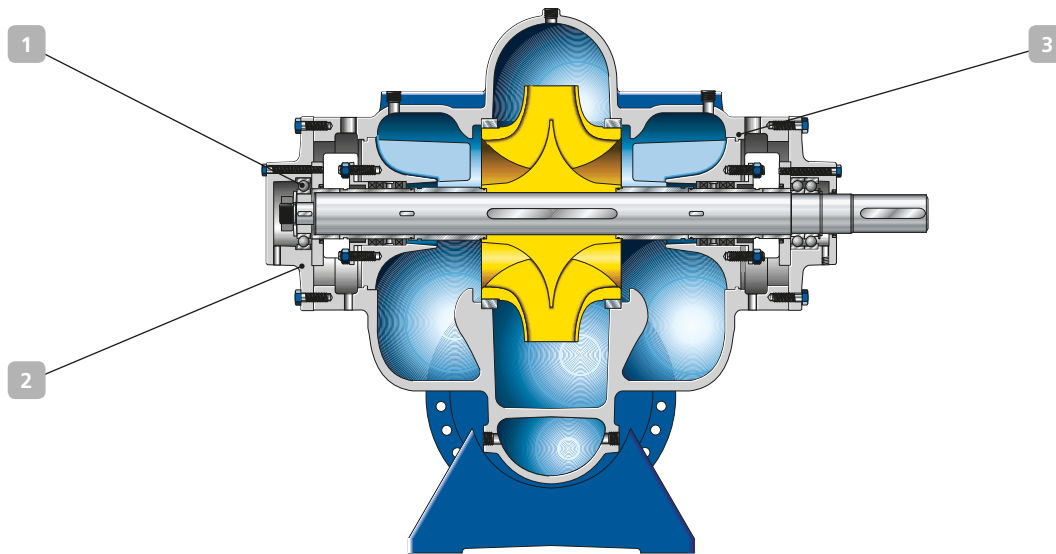
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System for monitoring pump condition



PumpMeter

# RDLO – Axially split Volute Casing Pump



## 1 High operating reliability

Since the casing is equipped with a double volute (compensating the radial forces) and a double-entry impeller (compensating the axial forces) the bearings only experience a minimum load. The calculated operating life  $L_{10}$  for all sizes is at least 100,000 hours.

## 2 Low maintenance costs

- The combination of solid bearing brackets, which are bolted to the upper casing part, the rigid shaft and the casing with double volute, guarantees low vibrations and long operating lives of bearings, seals and coupling.
- Corrosion and abrasion resistant materials ensure top service lives of the shaft protecting sleeves, the impeller and casing wear rings and the impeller.

## 3 Service-friendly design

The self-centring upper part of the casing and the preloaded rotor enable cover and rotor assembly without any further adjustments. For maintenance, the cover's hexagon head bolts are completely removed from the casing. The casing split flange can therefore be cleaned easily and thoroughly, and the inside of the pump is freely accessible.

## Reliable sealing

The solid casing split flange of at least 80 mm at the upper and lower casing part ensures reliable and troublefree sealing of the upper and lower casing halves.

### Materials\*

Volute casing	Grey cast iron / nodular cast iron / duplex cast steel
Impeller	CrNi steel / bronze / duplex cast steel
Shaft	Cr steel / duplex steel
Shaft protecting sleeve	Cr steel / bronze / duplex steel
Casing wear rings	Bronze / duplex
Impeller wear rings (optional)	Bronze / duplex

\* Other materials on request

### Technical data

Pump sizes	DN 350 – 700	14 – 28 in
Flow rate <sup>1)</sup>	Up to 10,000 m <sup>3</sup> /h	Up to 44,030 gpm
Discharge head <sup>1)</sup>	Up to 290 m	Up to 951 ft
Operating pressure	Up to 30 bar	Up to 435 psi
Temperature <sup>2)</sup>	Up to 80 °C	Up to 176 °F

<sup>1)</sup> Larger flow rates and heads on request

<sup>2)</sup> Temperatures up to 140 °C (284 °F) on request



KSB SE & Co. KGaA  
 Johann-Klein-Straße 9  
 67227 Frankenthal (Germany)  
 www.ksb.com