

## **HGM-RO** – High-pressure Pump for Seawater Reverse Osmosis Systems



### **Applications**

- Seawater desalination in reverse osmosis systems
- Seawater injection

**More information:**

[www.ksb.com/products](http://www.ksb.com/products)

# HGM-RO – High-pressure Pump for Seawater Reverse Osmosis Systems

## Investment and service friendly design

Product-lubricated plain bearings made for a short bearing span, which ensures a long bearing life time and optimum smooth running. We have decided to keep the pump clear of oil and grease. In addition, the pump's compact design is space-saving and, hence, service-friendly.

## Optimised hydraulic performance

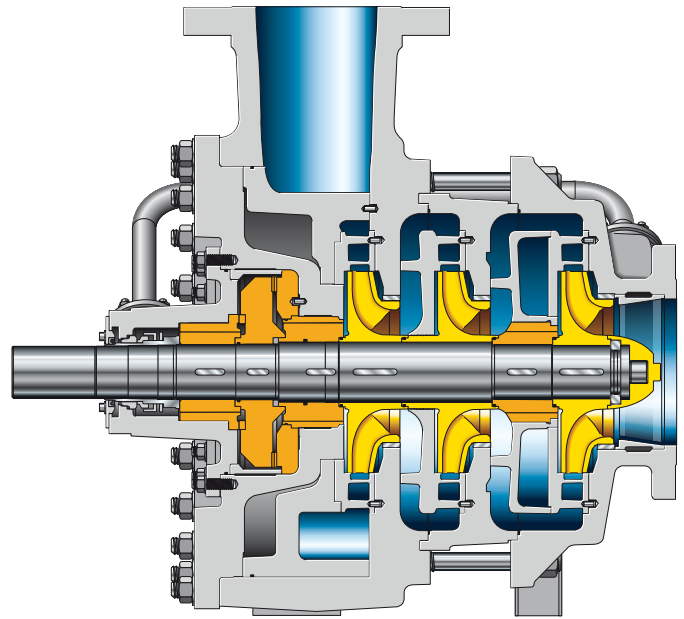
Optimised pump hydraulic systems designed for top efficiencies. The axial inlet is made for low NPSH values, thus minimising investment costs of the RO system.

## Easy maintenance, low spare parts costs

The pump has only one mechanical seal, which reduces the cost and stock of spare parts. As there is no bearing bracket, the mechanical seal can be replaced easily, if required. The pump can be disassembled and reassembled from either side.

## Faster and lower-cost installation, reduced operating costs

This pump does not require any vibration or temperature monitoring. Supply systems for oil-lubricated bearings are not needed either; the pump is fully self-sufficient.



### Technical data

Fluid pumped	Seawater	
Flow rate at max. speed	Up to 1,500 m³/h	Up to 6,606 gpm
	Up to 416.66 l/s	Up to 110.1 gps
Head	Up to 950 m	Up to 3,117 ft
Pump discharge pressure	Up to 120 bar	Up to 1,740 psi
Temperature	Up to 40 °C	Up to 104 °F
Speed	3,000/3,600 rpm	

### Materials\*

Shaft (dry)	Duplex steel
Impeller/suction impeller	Super duplex steel
Diffuser	Super duplex steel
Pressure boundary	Super duplex steel

\*Other materials on request

### Miscellaneous

Flanges	to ASME, optional DIN
Drive	direct by electric motor



**KSB Aktiengesellschaft**  
Johann-Klein-Straße 9  
67227 Frankenthal (Germany)  
[www.ksb.com](http://www.ksb.com)