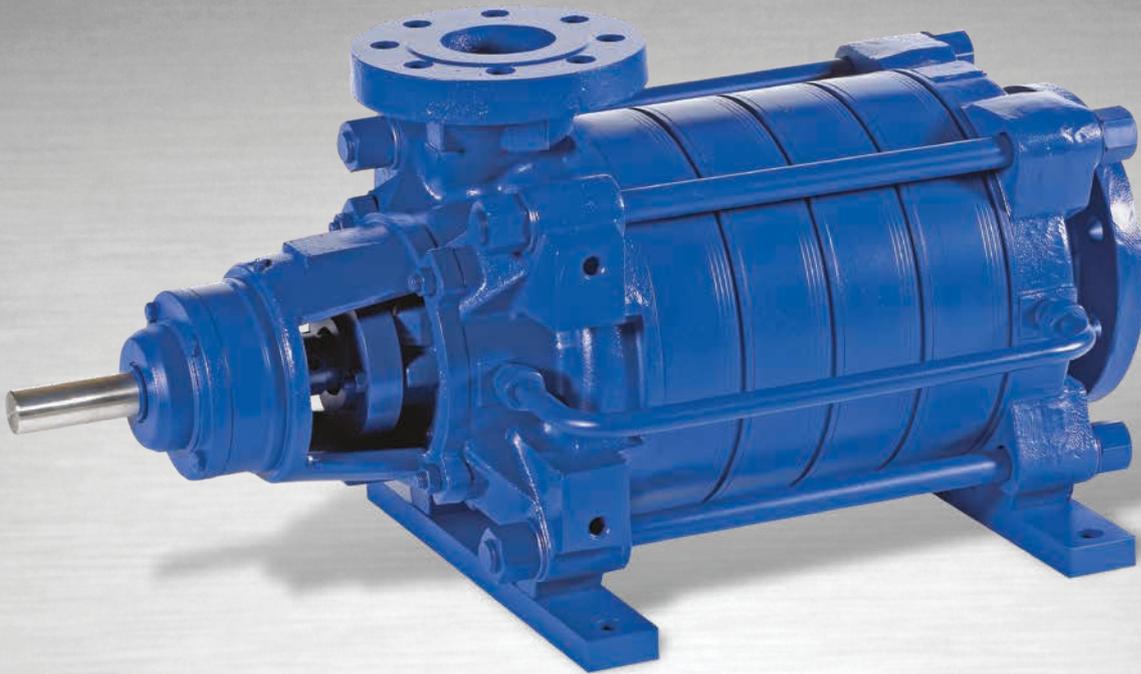


Multitec RO – High-pressure Pump in Ring-section Design

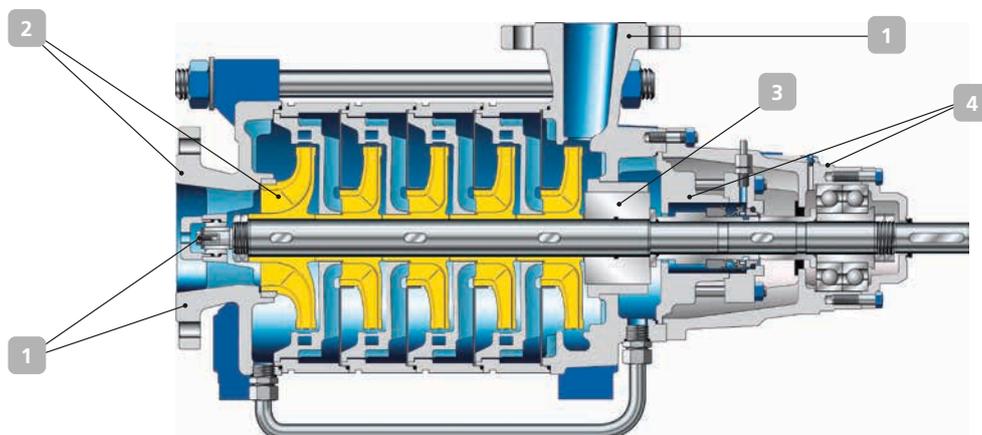


Applications:

- Reverse osmosis desalination of brackish water and seawater
- Chilled water applications
- Geothermal energy

More information: www.ksb.com/products

Multitec RO – High-pressure Pump in Ring-section Design



1 Minimal investment and installation work

- The product-lubricated plain bearing allows short distances between the bearings. This ensures high availability.
- Axial inlet and product-lubricated bearing make for compact design and small footprint. This results in reduced foundation space and cost.
- The pump is supplied ready for operation and does not need any auxiliary systems (plug and play). Radial discharge nozzle with flexible connection to easily adapt to the system.

High operating reliability

- 2 The suction impeller and axial inlet design make for low NPSHr values thus ensuring maximum operating reliability.
 - Corrosion-resistant and durable materials (duplex or super duplex steel) for a longer service life
 - Wear-resistant, self-aligning plain bearing made of silicon carbide
- 3 Axial thrust balancing through balancing drum for a long service life

Materials

Casing	Duplex / super duplex steel
Impeller	Duplex / super duplex steel
Diffuser	Duplex / super duplex steel
Shaft	Duplex / super duplex steel

Automation options

PumpDrive, PumpDrive R, KSB SuPremE® IE4* motor

Low operating costs

- Optimised hydraulic design and impellers trimmed to the duty point as standard to ensure the system's high efficiency. The KSB SuPremE® IE4* synchronous reluctance motor and PumpDrive or PumpDrive R variable speed systems make for optimal efficiency of the complete pump set and automatic adjustment to current demand, thus important energy savings are achieved.

Service-friendly design, low spare parts costs

- The pump only has one discharge-side mechanical seal, which reduces the costs for purchasing and storing spare parts.
- Simple and compact design provides for ease of service
- 4 Easy dismantling of bearing and shaft seal without the need to remove hydraulic components thanks to separate seal chamber/bearing housing as well as shaft protecting sleeves at the bearing and shaft seal

Other features

Flanges	DIN or drilled to ASME
Drive	direct by electric motor

Technical data

Size: DN 50-150	
Fluids handled	Seawater, brackish water, chilled water
Flow rate	up to 850 m ³ /h 3742 Usqpm
Discharge head	up to 1000 m 3280 ft
Pump discharge pressure	up to 100 bar up to 1450 psi
Fluid temperature	up to 45 °C 113 °F
Frequency	50 and 60 Hz, 2 and 4 poles

* IE4 acc. to IEC/CD 60034-30 Ed. 2



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