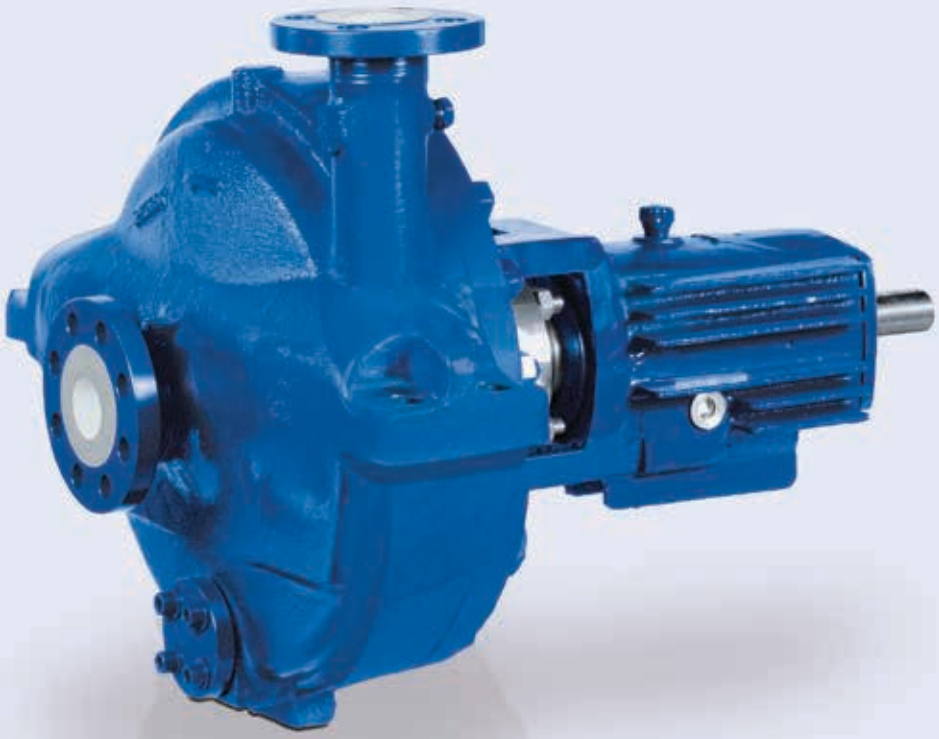
› **Our technology. Your success.**
Pumps ▪ Valves ▪ Service

RPH-RO –
Booster Pump for Desalination Plants

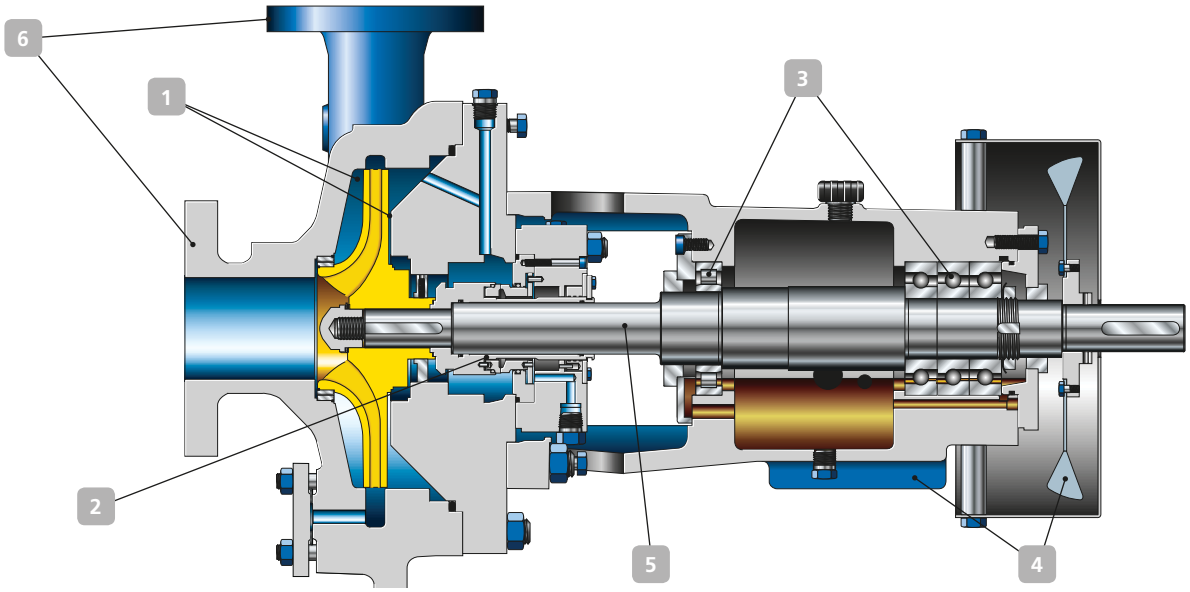


Applications:

- Seawater desalination by reverse osmosis

More information: www.ksb.com/products

RPH-RO – Booster Pump for Desalination Plants



1 Low maintenance costs

- The selection of a balancing system for the specific duty point markedly reduces axial forces.
- The double volute (DN 80 and above) reduces radial thrust and prevents shaft deflection, considerably reducing the loads on bearings and mechanical seal.

2 Long service life of the mechanical seal

The specially designed KSB mechanical seal type “4RPS” is implemented as standard.
Use of a hooked shaft protecting sleeve reduces the load on the seal and, in combination with high quality materials, ensures excellent reliability.

3 Long service life and high reliability of bearings

The bearings in tandem design cope well with high inlet pressures.

4 No cooling water circuit required

When fluid temperature and ambient temperature are high, the steel bearing bracket with integrated cooling fins and the optional fan impeller protect the unit from overheating.

5 Ease of maintenance

Single mechanical seal in cartridge design for easy installation and removal.

6 High flexibility

The pump flanges are available for all common pipelines because they are built to all standards up to PN 100 (ASME Class 600).

Reduced operating costs

No barrier fluid required, therefore considerably reduced operating costs.

Materials
Super-Duplex A890 Grade 5A

Technical data of the standard configuration	
Pump size (Discharge nozzle)	DN 100 – 350 / 4 – 14 inch
Flow rate	Up to 2500 m³/h / 11008 gpm
Head	Up to 150 m / 492 ft
Operating pressure	Up to 80 bar / 1160 psi
Fluid temperature	0 °C to +40 °C / +32 °F to +104 °F
Speed	Up to 3500 rpm

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