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.

2. **High operating reliability**
   - 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.
   - Axial thrust balancing through balancing drum for a long service life.

3. **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.

4. **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.

5. **Other features**
   - Flanges: DIN or drilled to ASME
   - Drive: Direct by electric motor

**Technical data**

<table>
<thead>
<tr>
<th>Size: DN 50-150</th>
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<tbody>
<tr>
<td>Fluids handled</td>
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<tr>
<td>Flow rate</td>
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<tr>
<td>Discharge head</td>
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<tr>
<td>Pump discharge pressure</td>
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<tr>
<td>Fluid temperature</td>
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<td>Frequency</td>
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* IE4 acc. to IEC/CD 60034-30 Ed. 2