

## Specification text - EMU Booster pump - Material Design „B/C“

Item	Description	Unit price	Quantity	Total price
1	<p>Waterworks design, in corrosion-resistant material design "B" or "C"</p> <p>For booster purposes in water supply and pipe line systems in the drinking water and industrial water range.</p> <p>For use in cold, clean, chemically corrosive water with max. sand content of 25 mg/l and max. particle size of 2 mm.</p> <p>Please absolutely have the material resistance checked by the manufacturer by means of a water analysis.</p>			
1.1	<p>Hydraulic:</p> <p>Single- or multi-stage radial / semi-axial / axial submersible pump in waterworks design for vertical / horizontal installation in stage design.</p> <p>All casing parts in high-quality cast design.</p> <p>Shaft and connecting elements of high-alloyed stainless steel..</p> <p>Impellers in solid full metal design, with exchangeable wear rings of wear-resistant materials.</p> <p>Adjustment of the duty point possible by trimming of impeller.</p> <p>Alternative: Impellers of high-quality Noryl GFN 3</p> <p>Shaft guided by metal or rubber slide bearings.</p> <p>Radial bearing completely lubricated by the pumped liquid and maintenance-free.</p>			
1.2	<p>Motor:</p> <p>"NEMA standard" submersible motor in wet type technology.</p> <p>In three-phase A.C. design with rewindable stator.</p> <p>Motor stator, shaft ends and connecting elements of stainless steel.</p> <p>Motor end parts in solid cast design.</p> <p>Radial bearing by water-lubricated and -cooled slide bearings of special artificial carbon, with spiral and longitudinal slots included.</p> <p>Mitchell-type bearing for high loads .</p> <p>Supporting plate and tilting segments of stainless steel, mobile wear ring of artificial carbon. With integrated counter supporting disc of artificial carbon for negative axial loads.</p> <p>Motor shaft sealing by mechanical shaft seal of silicon-carbide.</p> <p>Motor filling with pure drinking water or water/propylene glycol.</p> <p>Optional with winding temperature control by cold-type or PT100-thermistors.</p>			
1.3	<p>Pressure shroud:</p> <p>For vertical /horizontal inline /bypass installation.</p> <p>Shroud pipe in high-quality full metal design.</p> <p>Discharge connection axial, suction connection possible in axial or lateral position. Possible in flanged or screwed design. Including connections for pressure gauge and water level control.</p> <p>In standard design for foundation bases and pre-filled motor.</p> <p>Optional : base plate / bearing feet for bottom assembly, external motor filling.</p>			
1.4	<p>Non-return valve:</p> <p>RVF (spring-mounted non-return valve) – installation outside the pressure shroud.</p> <p>Non-return valve directly built-on in heavy design, spring-mounted for vertical and horizontal installation.</p> <p>Casing parts of high-quality cast materials, components completely of stainless steel / bronze (corrosion-free).</p> <p>Possible in flanged or screwed design.</p>			
1.5	<p>Cable:</p> <p>Highly-resistant submersible cable "Hydrofirm T", with sheathing on EPR basis, with drinking water approval as per BAM ("Federal Institute for Test of Equipment").</p> <p>Max. limiting temperature of conductor: 90° C</p>			

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2	<p>Submersible Pump as booster pump:</p> <p>Make:</p> <p>Pump type:</p> <p>No. of stages:</p> <p>Installation vertical/horizontal:</p> <p>Capacity: l/s</p> <p>Total man. head: bar</p> <p>Curve no.:</p> <p>Dimension sheet no.:</p> <p>Total efficiency (pump + motor): %</p> <p>Speed: r.p.m.</p> <p>Motor power: kW</p> <p>Operating voltage: V</p> <p>Starting:</p> <p>Discharge connection: DN/PN</p> <p>Outside diameter: mm</p> <p>Construction length: mm</p> <p>Weight: kg</p> <p>Material:</p> <ul style="list-style-type: none"> <li>- impellers/diffusers</li> <li>- pump casings</li> <li>- motor casings</li> <li>- shaft</li> <li>- screwed connections</li> <li>- motor sealing</li> </ul> <p>Motor filling</p>			
3	<p>Cable</p> <p>suitable for drinking water, connected at the motor ready for operation</p> <p>section: mm<sup>2</sup></p>			
4	<p>Booster shroud:</p> <ul style="list-style-type: none"> <li>- material:</li> <li>- diameter:</li> <li>- construction length:</li> <li>- discharge connection:</li> <li>- intake connection:</li> <li>- axial / lateral:</li> </ul>			