

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 "C" or "D" For booster purposes in water supply and pipe line systems in the drinking water and industrial water range. For use in sea and brackish water (off-shore), as well as chemically aggressive water, max water temperature up to 40°C/104°F, with max. sand content of 25 mg/l and max. particle size of 2 mm. Please absolutely have the material resistance checked by the manufacturer by means of a water analysis.</p>			
1.1	<p>Hydraulic: Single- or multi-stage radial / semi-axial / axial submersible pump in waterworks design for vertical / horizontal installation in stage design. All casing parts in high-quality cast design. Shaft and connecting elements of high-alloyed stainless steel. Impellers in solid full metal design, with exchangeable wear rings of wear-resistant materials. Adjustment of the duty point possible by trimming of impeller. Alternative: Impellers of high-quality Noryl GFN 3 Shaft guided by metal or rubber slide bearings. Radial bearing completely lubricated by the pumped liquid and maintenance-free.</p>			
1.2	<p>Motor: "NEMA standard" submersible motor in wet type technology. In three-phase A.C. design with rewindable stator. Motor stator, shaft ends and connecting elements of stainless steel. Motor end parts in solid cast design. Radial bearing by water-lubricated and -cooled slide bearings of special artificial carbon, with spiral and longitudinal slots included. Mitchell-type bearing for high loads . 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. Motor shaft sealing by mechanical shaft seal completely of silicon-carbide. Motor filling with pure drinking water or water/propylene glycol. Optional with winding temperature control by cold-type or PT100-thermistors.</p>			
1.3	<p>Pressure shroud: For vertical /horizontal inline /bypass installation. Shroud pipe in high-quality full metal design. 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. In standard design for foundation bases and pre-filled motor. Optional : base plate / bearing feet for bottom assembly, external motor filling.</p>			
1.4	<p>Non-return valve: RVF (spring-mounted non-return valve) – installation outside the pressure shroud. Non-return valve directly built-on in heavy design, spring-mounted for vertical and horizontal installation. Casing parts of high-quality cast materials, components completely of stainless steel / bronze (corrosion-free). Possible in flanged or screwed design.</p>			
1.5	<p>Cable: Highly-resistant submersible cable "Hydrofirm T", with sheathing on EPR basis, with drinking water approval as per BAM ("Federal Institute for Test of Equipment"). 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"> - impellers/diffusers - pump casings - motor casings - shaft - screwed connections - motor sealing <p>Motor filling</p>			
3	<p>Cable</p> <p>suitable for drinking water, connected at the motor ready for operation</p> <p>section: mm²</p>			
4	<p>Booster shroud:</p> <ul style="list-style-type: none"> - material: - diameter: - construction length: - discharge connection: - intake connection: - axial / lateral: 			