

Submersible Recirculation Pump Type ABS RCP 250

Compact, submersible recirculation pump type ABS RCP is designed for pumping activated sludge in treatment plants during the nitrification and denitrification process, as well as for pumping of storm, surface and river water.

Construction

The submersible recirculation pump type RCP is designed as a compact, water-pressure-tight unit, including propeller and bracket with well proven automatic coupling system using a single guide rail. The single guide rail coupling system guarantees quick and economical installation to a DIN-flange. The RCP is available in cast iron (EC) and optional in stainless steel (CR). Maximum allowable temperature of the medium for continuous operation is 40 °C.

Motor

Squirrel cage, 3-phase, 6-pole 50 Hz. Protection type IP68, with stator insulation Class F (155 °C), max. submergence 20 m.

Propeller

Technically optimized, axially operating 3-blade propeller with very good self-cleaning effect for vibration-free operation. The propellers are designed to achieve high thrusts and therefore a high flow capacity in axial direction.

Solids deflection ring

The solids deflection ring protects the mechanical seal from damage by ingress of solid or fibrous matter.

Bearings

All bearings are lubricated-for-life and maintenance-free, with a calculated life time of more than 100 000 h.

Shaft sealing

Mechanical seal: Silicon carbide / Silicon carbide. O-rings / lip seals: NBR.

Seal monitoring

DI-system with leakage sensors in the oil and motor chambers.

Temperature monitoring

Thermal sensors in the stator which open at 140 °C.

Cable

10 m sewage resistant material. Optional lengths (m): 20, 30, 40, 50.

Options

Explosion-proof version, seals in viton, EMC cable, double mechanical seal, PTC in the stator.

Weight

RCP 2533: 61 kg

RCP 2534, RCP 2535: 66 kg



Materials

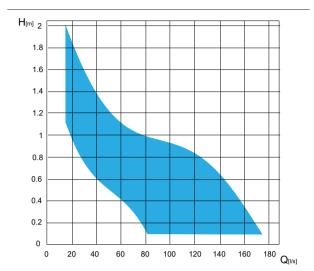
Part	EC (cast iron)	CR (stainless steel)
Motor housing	EN-GJL-250, painted	1.4404 (AISI 316L)
Connection chamber	EN-GJL-250, painted	1.4408 (CF-8M)
Motor shaft	1.4021 (AISI 420)	1.4404 (AISI 316L)
Propeller	1.4460 (AISI 329)	1.4460 (AISI 329)
Fasteners / Motor	1.4401 (AISI 316)	1.4401 (AISI 316)
Bracket	Galvanized steel or 1.4404 (AISI 316L)	1.4404 (AISI 316L)

Motor data

A 28/6
2.8
8.4
894
68.5
0.70

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Performance field



H = Total Head; Q = Discharge Volume

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