

Stainless steel flowmaker POPR-I 180

Landia flowmaker POPR-I 180 rpm manufactured of acidproof stainless steel materials - planetary gear driven, available in 1.8 HP to 12.2 HP. For flow creation and mixing of liquids at water plants, wastewater treatment plants, in industrial applications and food processing.



Landia's flowmakers, with only 180 revolutions per minute, are unique on the world market. The low speed gives a much wider range for alternative solutions that would not otherwise be possible.

The flowmaker is very suitable in rectangular tanks for anaerobic and anoxic processes, where dry matter content is below 2%.

Operation is often continuous, which requires high efficiency and thereby a low energy consumption. This is achieved through a low speed.

The low speed minimizes turbulence

on the surface, whereby oxidation is avoided in the anoxic phase.

Low propeller revolutions grant soft effluent treatment in activated sludge processes. Flocculation is promoted with the gentle mixing and disturbance of the biological balance is avoided.

Other applications for the flowmaker 180 are oxidation ditches and circular tanks, especially with low liquid depths, or tanks where hydraulic conditions are not favorable to the creation of a horizontal flow.

Quality in every detail

Stainless steel flowmaker

POPR-I-180

■ Performance and specifications:

Article no. (460 V)	Motor size HP	Motor series	Motor rpm	Propeller rpm	Performance approx. gpm	Weight lb
1128298	1.8	100R	900	180	2420	216
1128201	2.4	100R	900	180	3410	284
1128204	6.5	132R	900	180	9020	385
1128305	9.0	132R	900	180	12100	460
1128307	12.2	160R	900	180	16940	532

■ Motor:

3-phase AC motor, 60 Hz, voltage: 460V.

All specifications and performance data are applicable for water. Optional propeller types and motors are available for specific mixing applications.

■ Materials:

Motor housing /

gear encasement: acidproof stainless steel (AISI 316)

Propeller: stainless steel (AISI 304)

Gear shaft: steel AISI 9840 sealed against the liquid

Screws: acidproof stainless steel

Special sealing systems available for very aggressive or very abrasive mediums.

- Propeller designed for optimum flow
- Triple shaft sealing system against the medium
- Sturdy gear giving the propeller ideal speed/efficiency
- Pressure tested waterproof motor casing, IP 68 rated
- Motor casing with stator in insulation class F, thermal sensors embedded in windings
- Mast systems are available with multiple mounting and adjustment configurations, and can be customized per the application requirements

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