

Flowmaker POP-I 180

Landia flowmaker POP-I 180 rpm, 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

Flowmaker

POP-I 180

■ Performance and specifications:

Article no. (460 V)	Motor size HP	Motor series	Motor rpm	Propeller rpm	Performance approx. gpm	Weight lb
1128398	1.8	100	900	180	2420	216
1128301	2.4	100	900	180	3410	238
1128302	3.6	112	900	180	5060	262
1128303	4.9	112	900	180	6600	284
1128304	6.5	132	900	180	9020	365
1128305	9.0	132	900	180	12100	460
1128307	12.2	160	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: cast iron AISI A48-40B
Oil chamber: cast iron AISI A48-40B
Propeller: steel AISI A570 Gr 50
Gear shaft: steel AISI 9840 sealed against the liquid
Screws: acidproof stainless steel

The flowmaker can be supplied with a propeller of stainless steel or with special coating. 2-component coating is recommended.

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 housing, IP 68 rated
- Motor housing with stator in insulation class F, thermal sensors embedded in windings
- Available with explosion proof motor
- Mast systems are available with multiple mounting and adjustment configurations, and can be customized per the application requirements

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