



AquariA

Built for outstanding
availability

More than pumps



More than pumps

Tradition has a name – Biral

For over 100 years, Biral has been dedicated to a major undertaking: To make the best pumps there are.



Biral – your ideal partner for water supply for over 100 years. Whether it is in your own home, in agriculture or in major waterworks, the name Biral stands for extremely reliable, solution-oriented products. People trust us due to our many years of expertise and wide range of services. Thanks to tailored consultation and support, we create close customer relationships that are in a league of their own.

The AquariA

Biral offers you a wide range of submersible pumps with the AquariA series. Thanks to their universal scope of application, the pumps can be used in many different areas. The new submersible pumps from Biral embody reliability and durability. In addition, all submersible pumps are made of stainless steel and can therefore be used for drinking water. The submersible pumps are assembled at the Münsingen plant, meaning that we can guarantee the usual Biral quality. We can respond to customer requirements quickly and in a targeted manner. However, thanks to the warehouse availability of the four-inch and six-inch pumps, the biggest plus is how quickly they can be acquired.

With these pumps, we offer you the greatest possible reliability and resilience. These stainless steel pumps were developed to stand out due to their long service life, even under extreme operating conditions.

The entire hydraulic system is made of high-quality stainless steel. This makes the pumps resistant to wear caused by sand and other abrasive materials.

Together with optional full motor protection or an external frequency inverter regulated by a control or management system, this is how an optimised, customised system solution emerges.

Versatile

Submersible pumps from the AquariA series are used primarily for pumping drinking water and groundwater. The pumps are installed in wells or boreholes underneath the water's surface. The pumps are also used in reservoirs, tanks and containers.

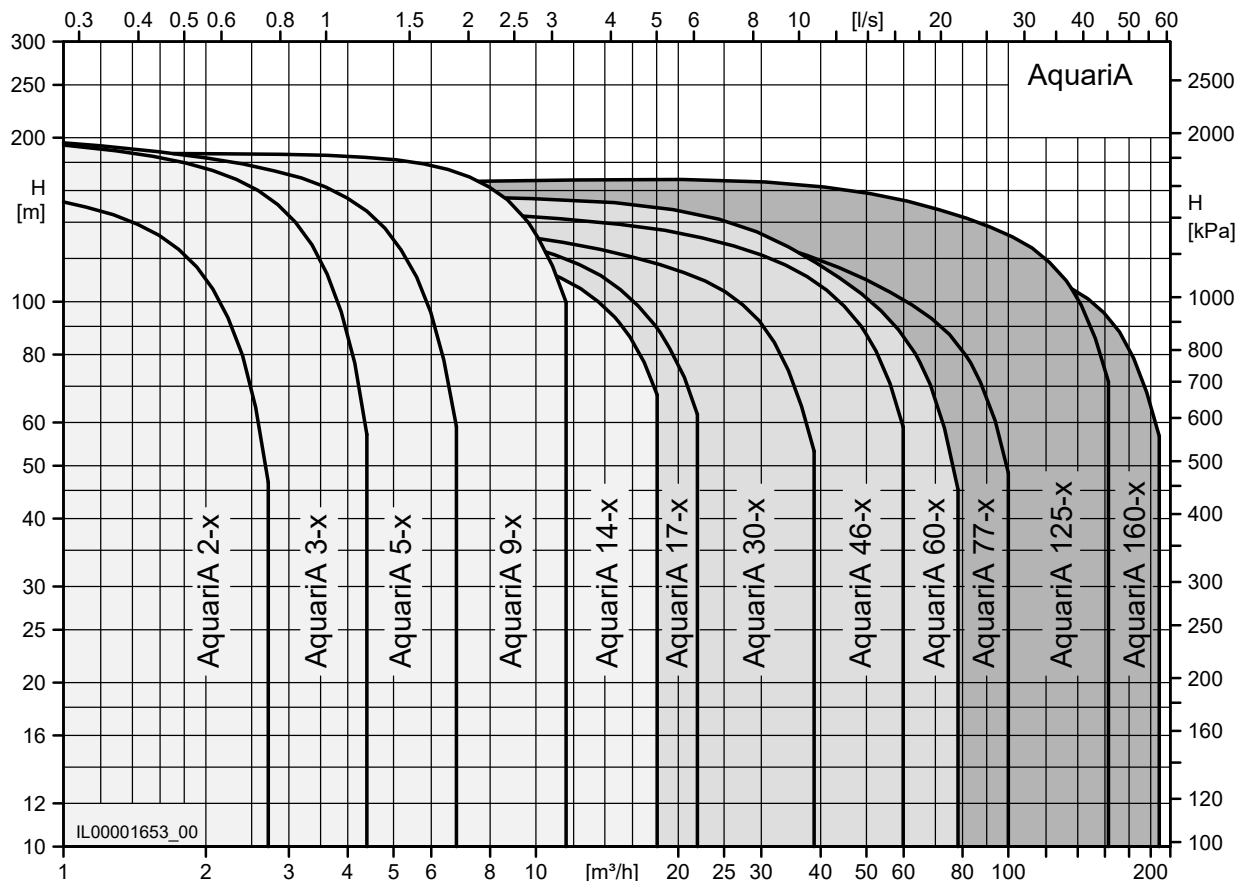
The submersible pumps are used primarily in the following areas of application:

- Supplying untreated water
- Irrigation
- Water table lowering
- Pressure elevation
- Fountains, spouts
- Heated water/water



The AquariA product range

With AquariA, Biral offers a wide range of four-inch to ten-inch submersible pumps that are as readily available as can be. See for yourself!



More than pumps

Swissness – production location Münsingen

The production facility in Münsingen, canton of Bern, is an important factor in Biral's success.



AquariA – systematic all-inclusive service

Extremely high availability

Standard versions of AquariA series 2 to 60 are available off the shelf and can be with you in no time. This allows flexible planning and provides outstanding reliability if a replacement is necessary.

Workmanship

We place value on real workmanship. The AquariA pumps are therefore assembled by hand at our plant in Münsingen and undergo a standardised inspection. This is how we ensure that each pump that leaves our plant complies with Biral's strict quality requirements.



Type designation

The type designation – easy to see, useful for comparison.

		AquariA	30	–	8	S	1/2
Series		_____					
Nominal volumetric flow [m ³ /h]			_____				
Number of stages					_____		
Rated voltage	230V = S 400V = –					_____	
Reduced impellers							_____

Convincing qualities

The new AquariA stands out not only thanks to its optimum service – the submersible pump will also truly impress you in other ways.

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Wide product range

Biral offers you submersible pumps for a wide range of flow rates (from 2 to 207 m³/h). Our range includes many different sizes; as we manufacture the pumps ourselves, we can also adapt them to individual requirements.

Highly efficient pumps

A high level of efficiency saves you money every year. The efficiency of the pump and motor is far more important for cost-effective water supply than the purchase price.

Low installation costs

Using stainless steel makes handling the pump easier. This material reduces the weight of the pump, therefore ensuring simpler and cheaper installation.

Sophisticated components

All components used are tried and tested. Whether bearings with sand channels to flush out sand deposits or the stop ring that protects against axial thrust reversal, all components serve to maximise reliability.

Efficient motors

The motors used are among the most efficient and best submersible motors on the market.

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Technical data

	AquariA 2 to 14	AquariA 17 to 60
Min. borehole diameter	105mm	140–155mm
Max. pump diameter	101mm	134–148mm
Minimum Efficiency Index (MEI)	0.7–0.5	0.5–0.4
Power supply	1 × 230V, 50Hz 3 × 400V, 50Hz	3 × 400V, 50Hz
Output	0.37–5.50kW	0.55–22kW
Media temperature	–20° C to + 40° C	–20° C to + 40° C
Minimum motor flow	0.15m/s	0.15m/s
Max. sand content	50–150g/m ³	50g/m ³
Max. starting sequences	100 x/h	100 x/h
Max. immersion depth	150 m	150 m
Protection class	IP 68	IP 68
Pressure connection	Rp 1¼" – Rp 2"	Rp 2½" – Rp 4"
Max. operating pressure	15–60 bar	60 bar

Design

NEMA connection	•	•
Integrated non-return valve	•	•
Three-phase motor	•	•
Direct activation	•	•
FI operation	Optional	Optional
Hydraulic system/motor pre-assembled	•	•
Cable with plug connection	•	•/–
Prefabricated cable	–	•/–

Application

Horizontal installation	•	•
Vertical installation	•	•
Features/function		
Monitoring of motor temperature	Optional	Optional
Run-dry prevention	Optional	Optional
Integrated lightning protection	–	–
Motor with integrated starter (230 V)	•	–

Accessories

Flow cover	Optional
Pressure hose	Optional
Submersible cable	Optional
Drainage kit	Optional

Materials

Pump housing	1.4301
Pump housing (special version)	1.4401
Impeller	1.4301
Impeller (special version)	1.4401
Motor housing	1.4301
Motor housing (special version)	1.4539

Service

Delivery period	48h	Max. five working days
Repairs	•	•
Commissioning	•	•

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