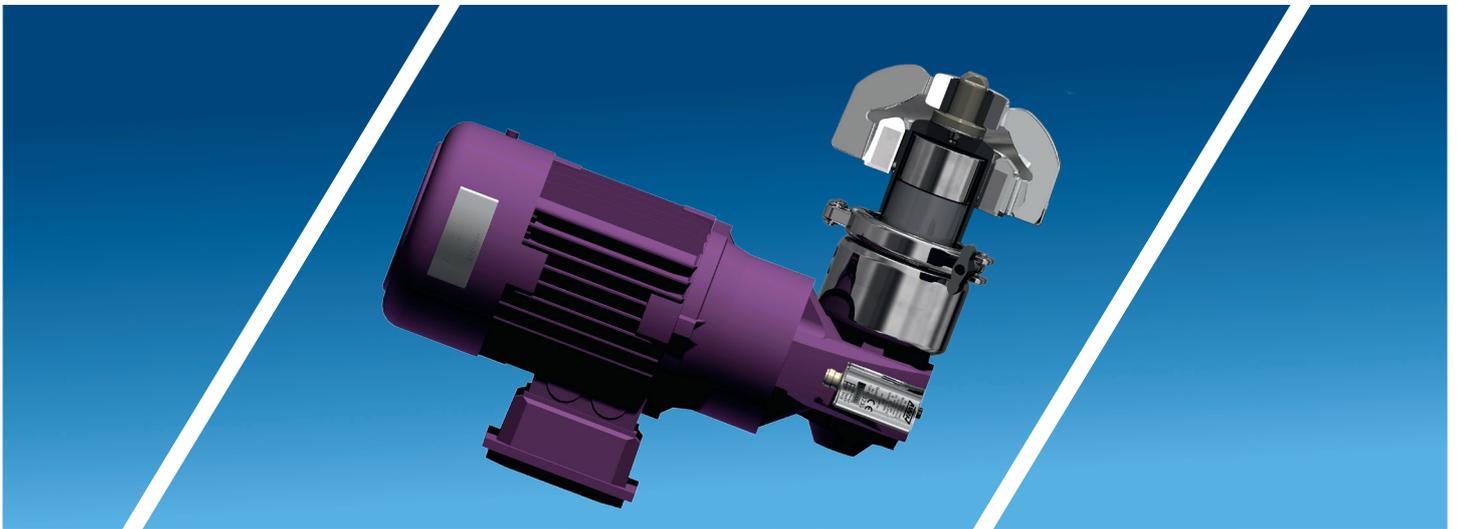


Datasheet Magnetic Coupled Mixer VPureMix®



General

The AWH VPureMix® magnetically driven mixer is designed for applications with the most stringent demands in terms of safety and sterility. A magnetic coupling eliminates the risks associated with conventional shaft grommets, such as leaks and contamination. All the functions are monitored continuously by a sensor, and can be read off and documented directly by a monitoring unit.

Description

The system is hermetically sealed

- no leakage or contamination possible
- product integrity is not compromised at any time
- excellent suitability for aseptic production
- easy change of mixing heads without tools

Trouble-free and simple sensor control

- The fully encapsulated sensor system on the VPureMix® enables continuous monitoring, regulation and data collection for the mixing process.
- The sensor can be positioned around the drive unit.
- Permanent surveillance of the most important parameters like position of the mixing head, revolutions per minute, direction of rotation and stop of production guarantees a maximum degree of product security.

Increased product yield and perfect mixing performance

- The mixer head has ceramic bearings, and is characterized by low shear forces and its ability to run dry with zero problems.
- This means no product residue, gentle mixing even with small quantities of product, and no risk when draining the tank during a mixing operation.

Simple and residue-free cleaning

- The open design of the mixing head allows easy access with all types of cleaning equipment and agents. This ensures that no residue is left after cleaning, especially when using steam, overheated water or autoclaving.
- As such, there is nothing stopping you from getting reproducible results using an automated cleaning process. This will help to reduce your consumption of ultrapure water and your generation of wastewater, while also reducing plant downtimes and saving you a huge amount of time.

Full traceability

- Every component is marked with an individual identification number to allow transparency and traceability back to all the raw materials used to make the unit.

Applications

Bio-pharmaceutical applications

- API production
- Bio-reactors for bacteria and cell cultures
- Vaccine production
- Reserve and media production
- Process tanks in upstream and downstream areas
- Plasma fractionation
- Fermentation plants
- Storage tanks

Food & Beverage applications

- Dairy products, soft drinks, functional food

Technical Data

Material medium-contacting Tank plate: 1.4435 (316L)
 Mixing head: 1.4435 (316L)
 Male bearing: zirconium dioxide (ZrO2)
 Female bearing: silicon carbide (SSiC)
 O-ring: EPDM

Surface: Ra ≤ 0.5 (20 µin)
Surface treatment: hand and electro polished

pH range: 1 - 14

Operating temperature: up to 150 °C / 320 °F

Max. tilt angle 30°

Temperature: Product: max. 90 °C / 194 °F
 WFI with pressure: max. 60 °C / 140 °F
 CIP (max. 50 rpm): max. 95 °C / 203 °F
 SIP (0 rpm): max. 150 °C / 320 °F

Sensor unit: Sensor datasheet available at www.awh.eu

The VPureMix® series are the ideal mixers for your project.

Type	Weight Actuator [kg]	Mixing head-Ø [mm]	Power [kW]	max. Revs per minute [rpm]	Annular gap [mm]	Mixing volume* [l]
VPureMix® LS50	11	96	0.12	490	2.5	20 - 50
VPureMix® LS100	12	120	0.12	490	2.5	50 - 100
VPureMix® LS500	14	142	0.37	490	2.5	100 - 500
VPureMix® LS1000	19	160	0.55	490	2.5	500 - 1000
VPureMix® LS2000	21	184	0.75	490	2.5	1000 - 2000

* for aqueous solutions

For a calculation visit our online "VPureMix® Configurator" at www.awh.eu.

Certificates

- 3.1 Material certificate, EN10204 for parts in product contact
- USP Class VI certification for all ceramic parts
- FDA certification for all elastomers and ceramic parts
- USDA-H11/ NSF H1 und FDA registration for gearbox lubricant
- IP66 class of protection for engine and gearbox
- IP67 class of protection for sensor and converter unit
- USDA registration for paint
- JIS Z 2801: 2010 certification for anti bacterial coating
- CE/CCC registration for sensor, engine and gearbox
- IE3 efficiency class for all engines



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