



AQ Dynamic Mixer

Continuously stirs and mixes liquids

AQ Dynamic Mixer operates with a powerful motor and a aseptic design. The liquid that it mixes is monitored using AQ Motor Controller MP72. The AQ Motor Controller MP72 controls mixer speed via Profibus DP or via 4-20mA input, it also communicates via profibus DP. More information of the AQ Motor Controller MP72 can be found in a seperate datasheet.

■ Design

AQ Dynamic Mixer is compact, and designed with pharmaceutical demands.

All wetted parts are made of acid-proof 316L steel and USP VI class plastic and gaskets. AQ Dynamic Mixer can be CIP (Clean In Place), the AQ Dynamic Mixer has full traceability with 2.1B certificates (gasket) and 3.1B certificates (316 L steel)

The connection are standard tri clamp connection which gives good aseptic and makes it easy to assemble and disassemble.

The mixing impeller is developed for maximum efficiency. It is completely smooth and electropolished with a Ra value of $<0.4\mu\text{m}$ ($<15\text{rA}$).

■ Adjustable

The AQ Dynamic Mixer speed can be set between 15-1000rpm. At all speeds the mixer runs very quietly.

■ Reliable and flexible

AQ Dynamic Mixer is constructed with a brushless motor and no gearbox wich gives long reliable operating time.

All settings are easy to control via the interface in the external control unit, AQ Motor Controller MP72.



AQ Elteknik AB



Example, AQ Dynamic Mixer mounted on a glass tank

Technical data Dynamic Mixer DM50:

Weight: 1,9kg

Operating temperature: -20°C to 50°C

Max operating pressure: 0 to 3 bar g

Rated voltage: 24VDC

Rated current: Temporarily 8A, long term 4A

Protection Class: IP56 according to NEMA 4X

Ambient Humidity: 0-90%

Speed: 15-1000 rpm

Viscosity: max 4000 mPas

Rated power: 105W

Peak torque: 0,25Nm

Material: Impeller: 316L electropolished Ra <0.4um (<15rA) (wetted part)

Mixer: 316L electropolished Ra <0.4um (<15rA) (wetted part), O-ring and gasket

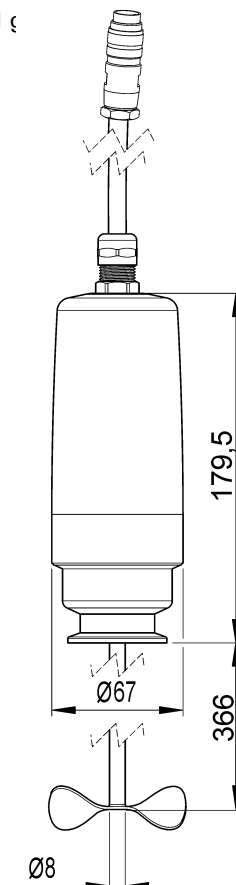
Mixer: Aluminium (not wetted part)

Cable length: 2.5meters

Connection: TC - tri clamp 50mm

Connects to: AQ Motor Controller MP72 (Separate Datasheet)

material.



AQ Elteknik AB

Alsikegatan 4

753 23 Uppsala

+46 (0) 18-18 34 30

www.aqeltek.se