Impeller Pump

Product Information

Series 41.007.400

A. u. K. Müller

Solenoid valves
Control valves
Special valves and systems

A. u. K. Müller GmbH & Co. KG
Dresdener Str. 162
D-40595 Düsseldorf/Germany

Tel.: +49(0)211-7391-0
Fax: +49(0)211-7391-281

e-mail: info@akmueller.de
Internet: www.akmueller.de



Characteristics

- Low running noise
- Vibration dampers at the attachment points
- Brushless motor
- Hermetic separation of hydraulic and drive unit
- Suitable for food and hot water applications
- Not self-priming
- Long life cycle (> 1500 hours under laboratory conditions)
- Compact design
- Easy disassembly for cleaning due to bayonet lock

Description

The 41.007.400 series pump is designed to increase pressure and improve dosing consistency.

It is ideally suited for applications where a low water level in a boiler causes insufficient flow through conventional outlet valves.

The use of the pump allows a largely independent placement of outlet valves above the water level of the boiler.

The special design of the hydraulic part of the pump enables low-cavitation operation. High media temperatures of up to 96 °C are therefore possible without significant loss of pump performance.

To increase the maintenance intervals, a low-wear, brushless motor is used in this pump.

By using the bayonet lock, the pump can be easily dismantled and cleaned.

The pump housing is suitable for hot water and has a long life cycle of more than 1500 hours (tested under laboratory conditions) due to the high end materials and design solutions used.

This is achieved by hermetically separating the drive unit from the hydraulic unit. Leakage, as is common on the seals otherwise used on rotating drive shafts, is thus prevented.

The pump is equipped with vibration dampers that further minimise the already very low noise emissions when installed.

Applications

- Hot / cold drink dispensers
- Pressure increase at low boiler level
- Tank draining
- Industrial appliances
- Bottling plants
- Cleaning Systems
- Water dispenser
- Air humidifier

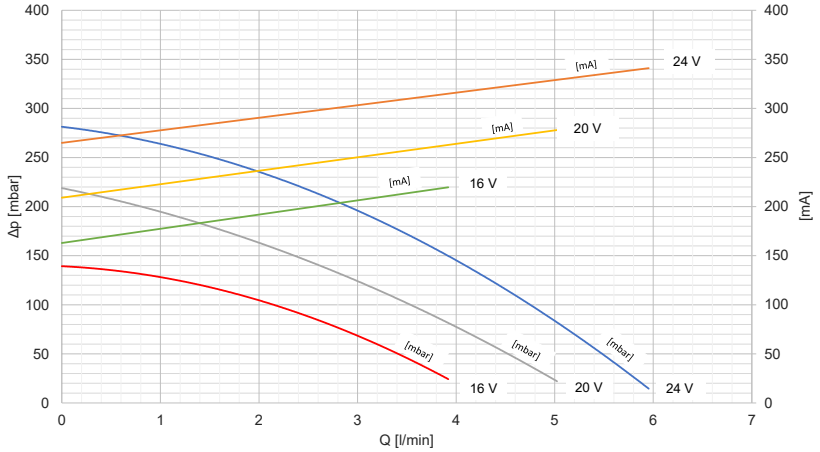
Approvals

Approved versions available on request:

KTW - BWGL WRAS NSF

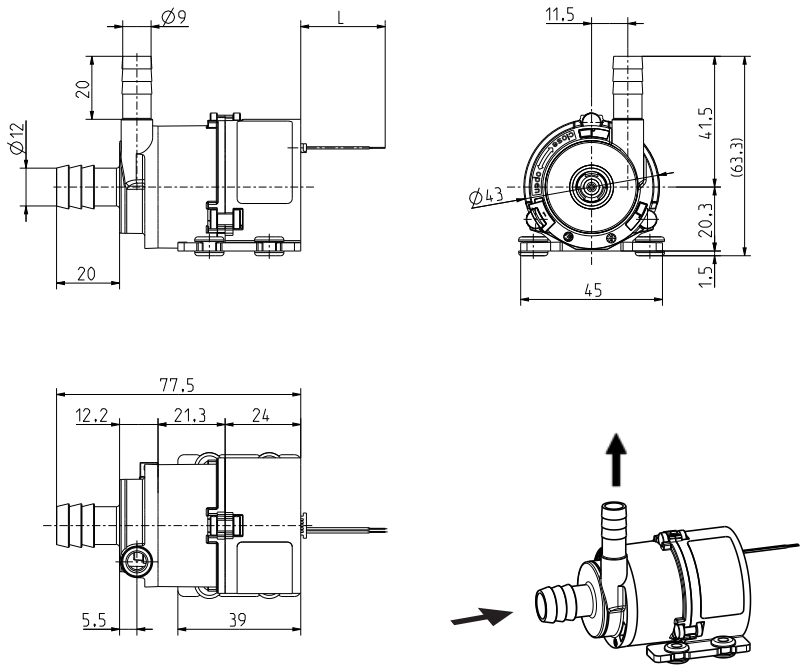
- EG 1935/2004
- KTW - BWGL
- NSF 169
- WRAS
- Others on request

Typical Performance Curve
(measured under laboratory conditions)



© copyright A.u.K. Müller, subject to changes without prior notice

Series 41.007.400



Technical Data

Type	pump	
Construction	impeller pump	
Function	pressure increase	
Mounting position	preferably motor horizontal or motor points downwards	
Media	cold and heated potable water and physically and chemically similar media	
T-Medium	5 - 96	°C
T-Ambient	5 - 60	°C
DN	7	mm
p-max	280	mbar
max. volume flow	5,8	l/min
Nominal voltages	24	V DC
	PWM on request	
Voltage tolerance	max. permitted Voltage 26 V DC	
Nominal power	max, 10 W	
Protection Type	IP 00	
Motor connections	strand (Polarity: red + / black -)	
Cabel	AWG 28	
Cabel length	300 ± 30 mm	

Materials

Pump body (not in contact with media)	PBT
Pump body (in contact with media)	PPSU
Shaft	stainless steel
Sealings	EPDM

Attention!

Pump bodies made of PPSU must not come into contact with:

Acetone, ether, ketones, aromatic hydrocarbons, chlorinated hydrocarbons, oxidising acids and anaerobic adhesives.

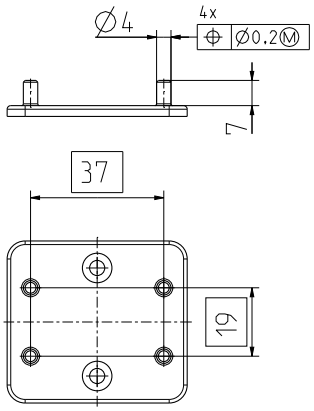
Attention!

Functional impairments and/or damage to the pump and / or damage to the pump may occur during

- Operation with inverted polar suction.
- Operation under strong vibrations.
- Operation after the pump has been subjected to strong vibrations, e.g. by falling down.
- Operation without medium (dry running).
- Operation with media containing particles with magnetic properties.

A corresponding mounting plate is provided by the operator.

Example mounting plate



E4421 © copyright A.u.K. Müller, subject to changes without prior notice