Product Information

Pump with magnetic drive

Series 41.008.100

A.u.K. Müller

Solenoid valves
Control valves
Special valves and systems

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Characteristics

- Low running noise
- Suitable for food and hot water appliances
- Basic interference suppression integrated into motor
- Suitable for dry run (max. 5 minutes)
- Orifice reducers available for outlet nozzle 0,8 - 6,0 mm diameter
- Push-fit boiler inlet seal

Applications

- Hot / cold drink dispensers
- Increase output pressure on low water level boilers
- Tank or boiler draining

Description

This pump is designed to increase pressure to enable a higher flow rate and improved dispense accuracy. It is ideal for applications where a low water level in a boiler causes an insufficient flow rate through traditional boiler dispense valves.

Use of the pump allows for flexible siting of dispense valves inside the machine, including up to 1 metre above the water level in the boiler. This is particularly useful in applications such as table top vending machines where space is limited.

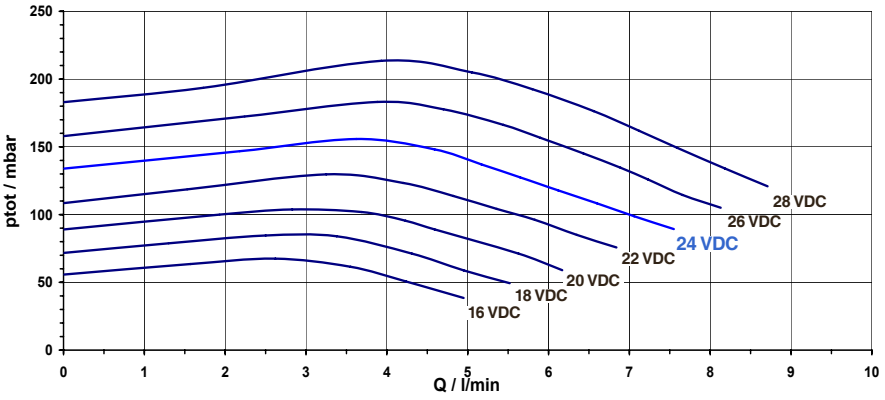
When a dispense valve bank is used with the pump, the bank can be fitted with a re-circulating bypass which allows water to be fed back into the boiler. This helps maintain a constant water temperature within the system.

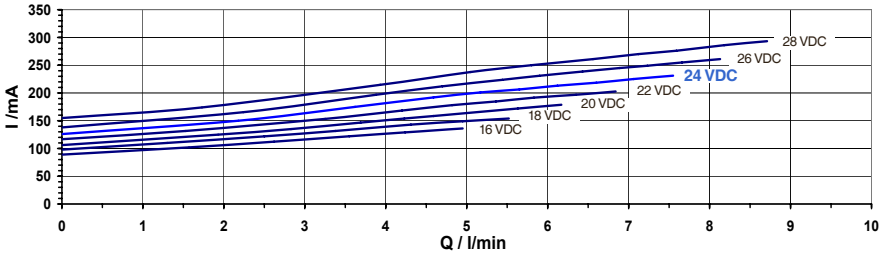
Varying the voltage supplied to the pump will change its speed and thus vary the flow rate output.

The impeller is driven by a non-contact magnetic connection which avoids the use of additional seals preventing potential leak paths.

The pumps body housing is suitable for use with hot water and the internal shaft and bearings are made from non-corrosive materials.

typical performance curves





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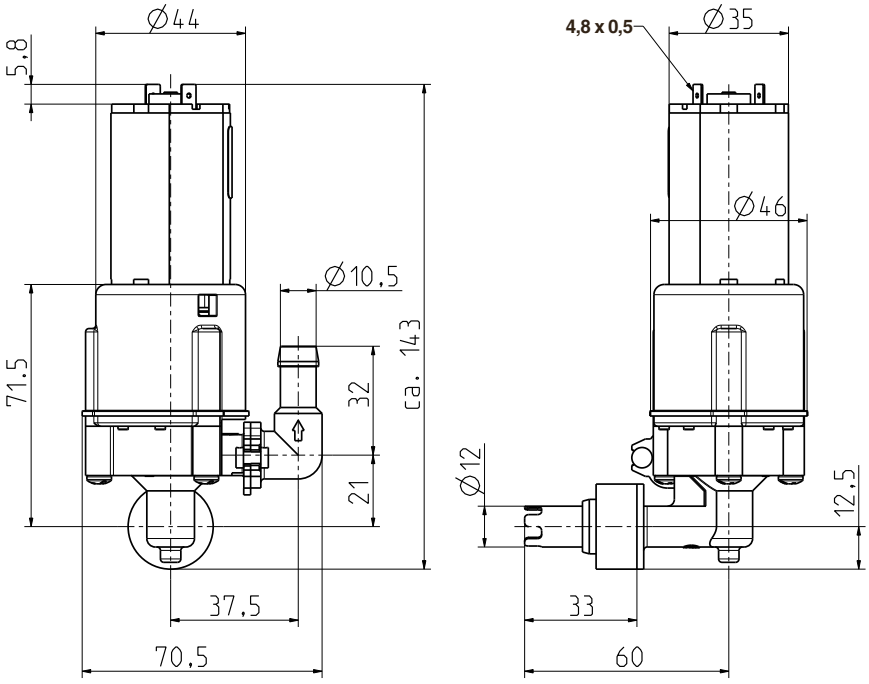
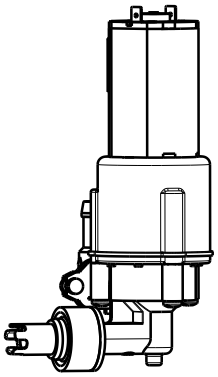


Technical Data

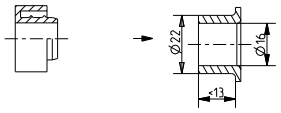
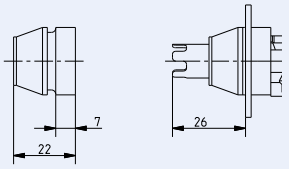
Type	pressure increasing pump	
Construction	centrifugal pump (not self-priming)	
Fitting position	any, preferably with motor upwards	
Media	cold and heated potable water and physically and chemically similar media	
T-Medium	98	°C max.
T-Ambient	70	°C max.
DN	8	mm
p-max (24 VDC) **Q**	155 3,6	mbar l/min
Motor type	direct current motor	
Nominal voltage	24	V DC
Voltage range	16 - 28 VDC	
Duty cycle	100%	
Protection Type	IP 00 according to EN 60529	
Motor connections	soldering lug 4,8 x 0,5	
Basic interference suppression	2 x 10nF 100 V	ceramic capacitors X7R
Insulation class	B	according to EN 60730
Protection class	III	according to EN 60730

Materials

Motor support	PA 66
Pump housing	PSU
Impeller	PA 6/6
Pump shaft	stainless steel
Bearing	Ruby disk and friction bearing
Seal (Motor support)	EPDM
Seal (outlet nozzle)	VMQ
magnetic clutch of impeller	Hard ferrite, 4-pole magnetised



Options

Material				part.-no.
VMQ	seal for protruding boiler stub			000849
VMQ	seal for circular punched boiler hole			006722

Material			Nozzle Ø	part.-no.
PSU	Outlet nozzle		12	006479
PSU	Outlet nozzle		12	006480
	Orifices for outlet nozzles on request			