

# Product Information

## Pump with magnetic drive



## A.u.K. Müller

Solenoid valves  
Control valves  
Special valves and systems

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### Series 41.008.100



### 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 meter above the water level in the boiler. This is particularly useful in applications such as table top vending machines where space is limited.

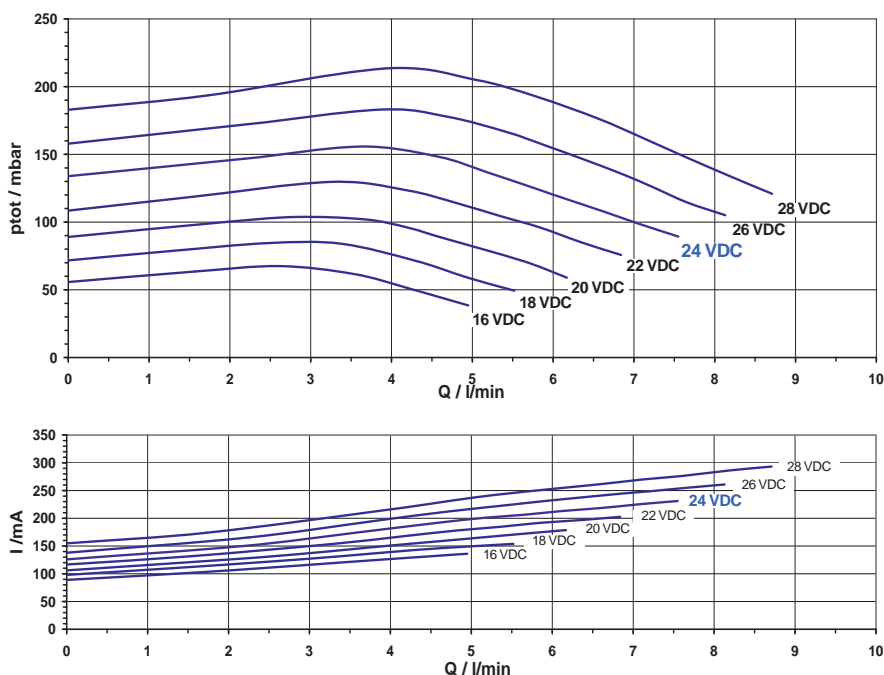
When a dispense valve bank is used with the pump, the bank can be fitted with a re-circulating bypass which allows water to be fed back into the boiler. This helps maintain a constant water temperature within the system.

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.

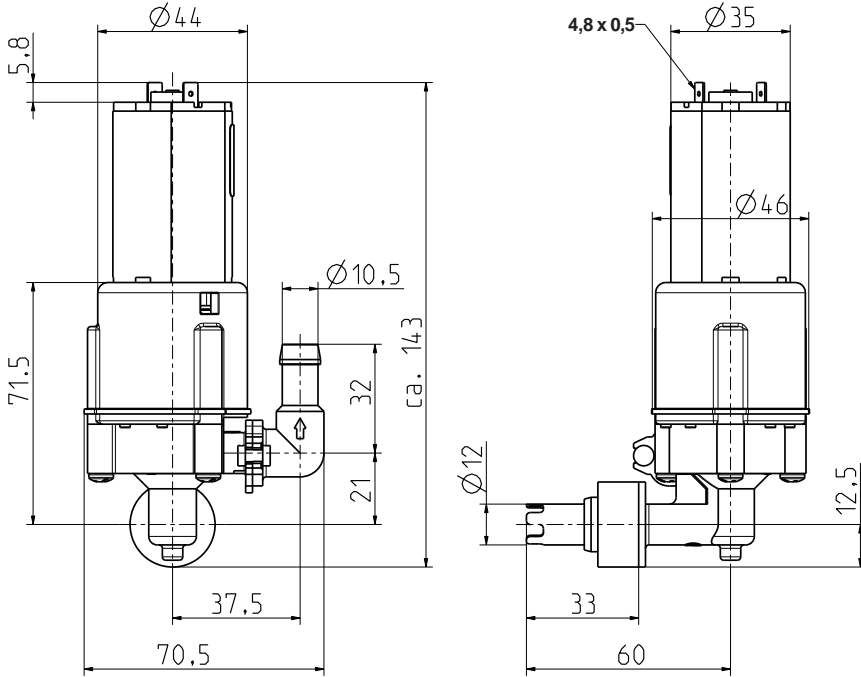
The pumps body housing is suitable for use with hot water and the internal shaft and bearings are made from non-corrosive materials.

typical performance curves





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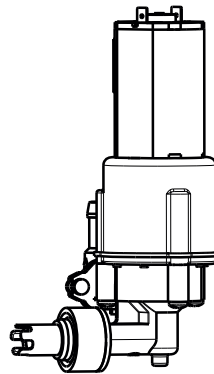


**Technical Data**

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

**Materials**

<b>Motor support</b>	PA 66
<b>Pump housing</b>	PSU
<b>Impeller</b>	PA 6/6
<b>Pump shaft</b>	stainless steel
<b>Bearing</b>	Ruby disk and friction bearing
<b>Seal (Motor support)</b>	EPDM
<b>Seal (outlet nozzle)</b>	VMQ
<b>magnetic clutch of impeller</b>	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				