Product Information

# Miniature valve, monostable

## Series 19.00x.287


**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

- Direct acting valve with miniaturized design
- Plug-in valve with a station width of 15 mm
- Monostable version
- Fast switching times
- Suitable for hot water up to 70 °C
- Ambient temperature up to 60 °C
- Suitable for the thermal as well as chemical disinfection
- Hygiene benefit by 100% final testing with air
- Long term performance capability by the use of high quality materials
- Testing of each device ensures highest quality standard

## Applications

- Dosing valve for small quantities
- Sampling valve
- Block valve in fluid manifolds
- Pilot valve unit for servo controlled main valves

## Description

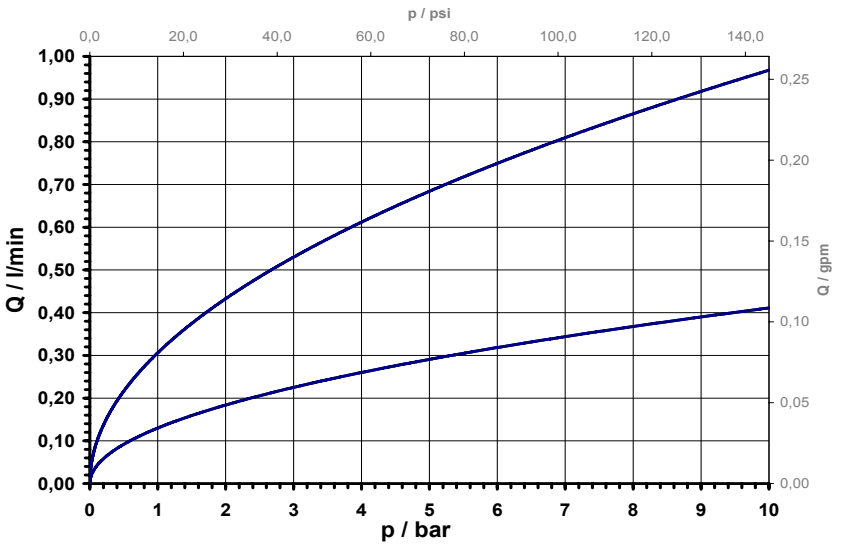
The mono stable, direct controlled 2/2-way valve 19.00x.287 available with a nominal orifice of 0,5 mm or 0,8 mm, is used as dosing valve or block valve in parallel fluid handling as well as pilot valve for servo controlled main valves in a pressure range up to 10 bar.

By combination of the pilot valve with servo components, the control of larger volume flows can be easily implemented, allowing the flexible realization of different flow paths. Furthermore, a high level of serviceability is achieved by an easily replaceable component.

The valve is characterized by its compact design, low power consumption and a safe valve function with high long-term durability.

Also available as latching type, see separate data sheet.

typical performance curve (determined in plug-in contour)

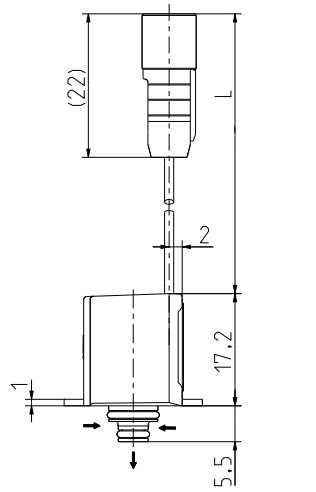


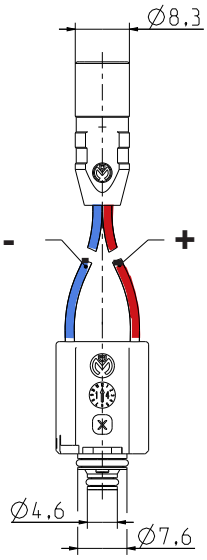

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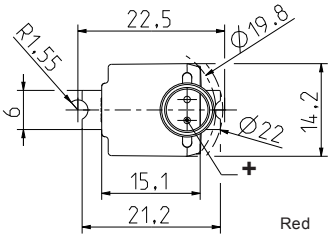
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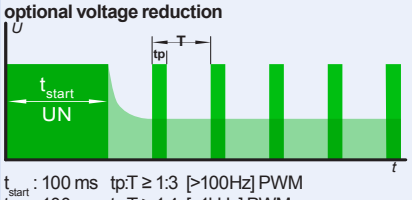
## Series 19.00x.287




## Technical Data

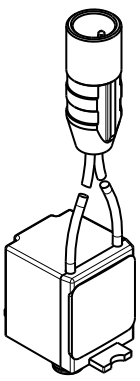
| | | |
|---|---|---|
| **Type** | miniature valve | |
| **Construction** | 2/2-way-plug-in, direct controlled | |
| **Function** | NC (normally closed) | |
| **Fitting position** | any | |
| **Media** | cold and heated potable water and physically and chemically similar media | |
| **T-Medium** | 5 - 70 | °C |
| **T-Ambient** | 5 - 60 | °C |
| **p-Operating** | 0,3 - 10,0 | bar |
| **optional voltage reduction** |   $t_{start}$ : 100 ms tp:T ≥ 1:3 [>100Hz] PWM<br>$t_{start}$ : 100 ms tp:T ≥ 1:4 [>1kHz] PWM | |
| **Duty cycle** | 100% | |
| **Protection Type** | IP 65 | higher on request |
| **Insulation class** | B | according to EN 60730 |

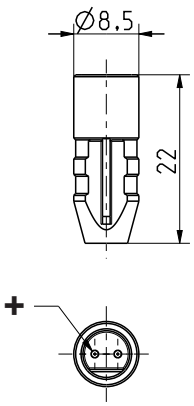
## Materials

| | |
|---|---|
| **Plunger guide and vave body** | LCP |
| **Plunger and spring** | stainless steel |
| **Seal** | EPDM (VMQ on request) |
| **O-Rings** | EPDM |
| **Coil coating** | hotmelt |

## Options

| DN | Cv @ 1 bar | Nominal voltage | Nominal power |
|---|---|---|---|
| | | voltage tolerance -15 % +10 % | at nominal voltage |
| 0,5 | 0,13 l/min | 12 V DC<br>24 V DC<br>12 V AC 50/60 Hz | 1,7 W<br>1,8 W<br>1,0 W<br>1,33 VA (only AC) |
| 0,8 | 0,31 l/min | 12 V DC<br>24 V DC | 2,6 W<br>3,0 W |






**Male connector**

strand color RED Pin 1 PLUS (+)
strand color BLUE MINUS (-)

Special cables or strands without connector (IP00) on request.

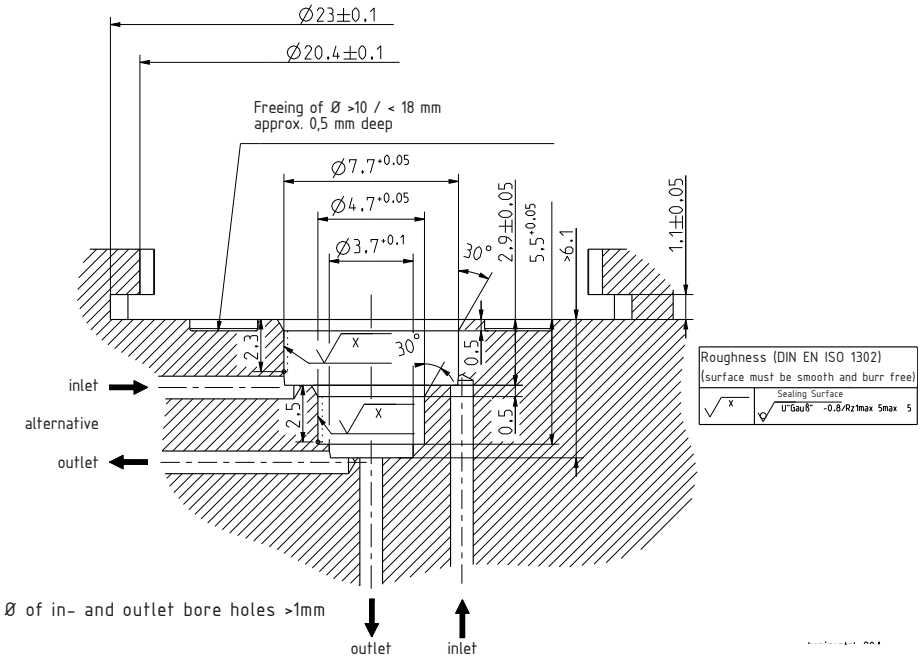


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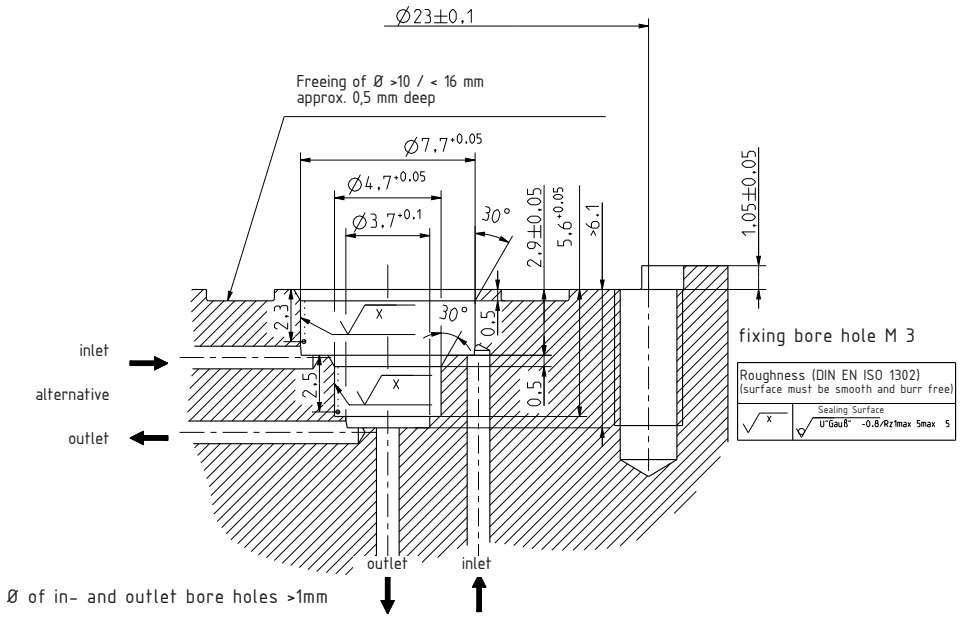
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## Plug in contours

**Bayonet fixing**




**Screwed fixing**




Ø of in- and outlet bore holes >1mm

lateral in- and outlet only shown exemplary,
actual position may differ

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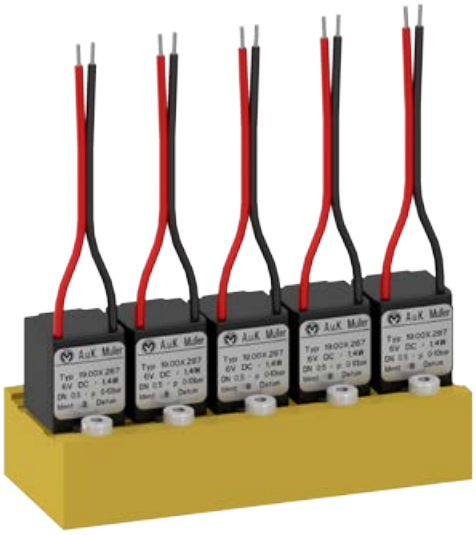
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### Application examples

Integration of cartridge vale in adapter housing as single valve or manifold application.



Adapter body single valve



Valve manifold



Installation example

Adapter body or manifold on request.



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