# 2/2 way direct acting solenoid valve combinable, DN 1,5 - 5,0

Information

## series 43.00x.xx6



PEI



PEEK


**A.u.K. Müller**

Solenoid valves
Control valves
Special valves and systems

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## Characteristics

- direct acting
- 3 dimensional assembly possible
- mechanical connection of different hydraulic resp. pneumatic systems possible
- long term performance capability
- easy to assemble and service
- suitable for food and hot water appliances
- any fitting position
- high operating safety through the use of high quality and 100% final testing of the products
- pre-configurated valve combinations on request

## Applications

- hot / cold drink dispensers
- medical equipement
- automatic welding equipment
- industrial appliances

## Description

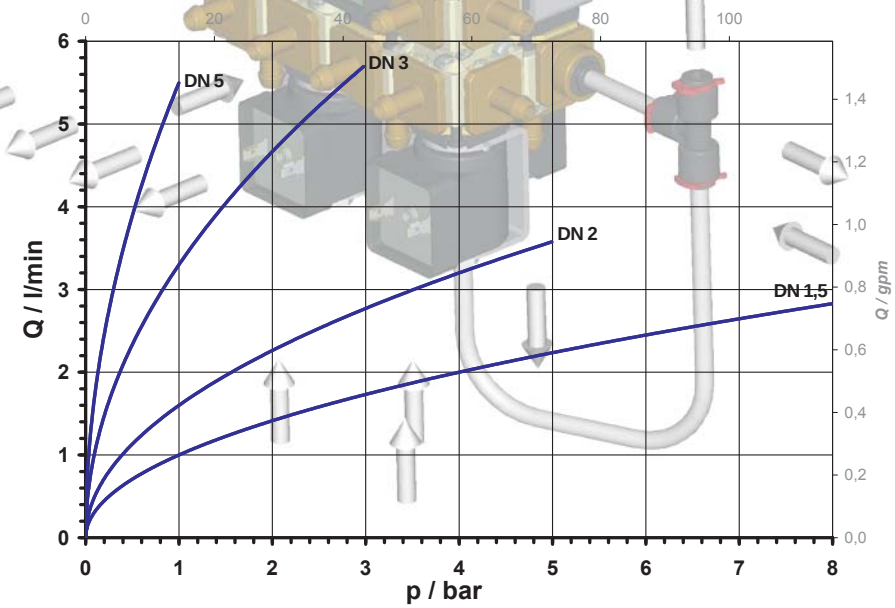
The 2/2 way modular solenoid valves are direct acting in operation and have orifice sizes ranging from 1.5 mm up to 5 mm.
3/2 way versions with a 1.5 mm port through the coil are also available on request.

Due to it's compact size, complex multi-valve assemblies with multiple medium channels are possible in applications where space is at a premium.

The two piece valve body consists of a polyamide outer frame and an internal core which handles the medium. This part can be manufactured in high performance, plastics including PEI and PEEK, to enable use with higher temperature media.

A large variety of fittings are available which clip into the valves to form inlets, outlets and multi valve connectors. These include various sizes of hose, threaded, push-fit and blanked options for endless possibilities.

typically performance curve

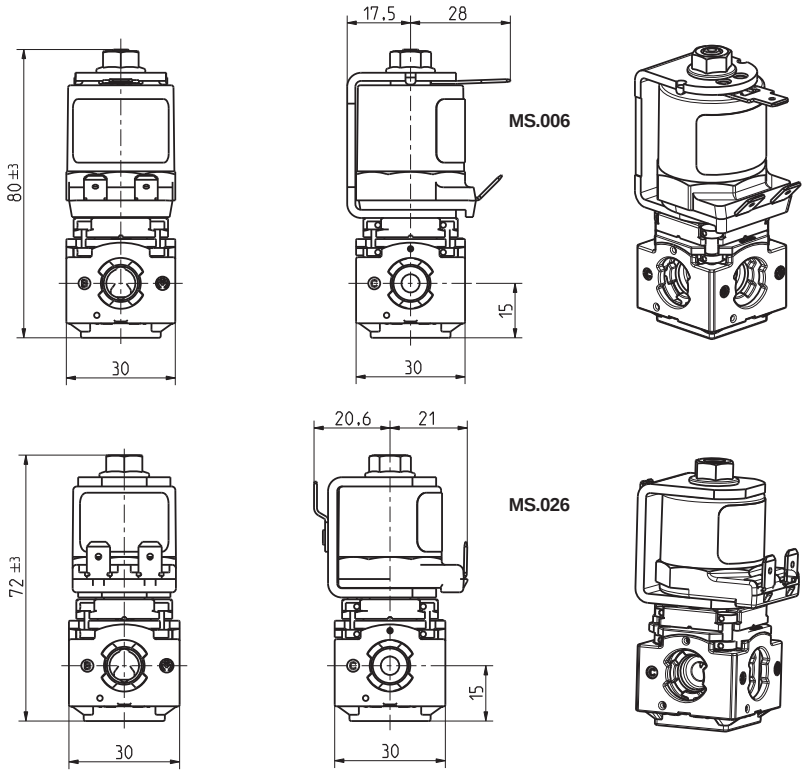



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# 2/2 way direct acting solenoid valve combinable, DN 1,5 - 5,0

A.u.K. Müller

## series 43.00x.x06




## Technical Data

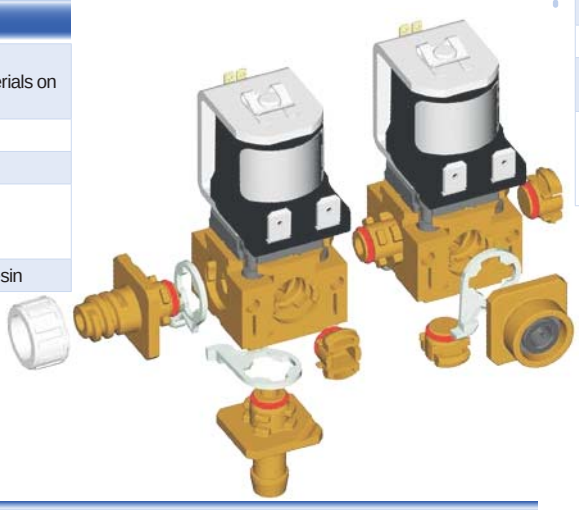
| | | |
|---|---|---|
| **Type** | modular valve | |
| **Construction** | direct acting | |
| **Function** | NC (normally closed) | |
| **Fitting position** | any | |
| **Media** | potable water and physically and chemically similar media | |
| **T-Medium** | 98 | °C max. |
| **T-Ambient** | 70 | °C max. |

| DN | Cv-value | p-Operating |
|---|---|---|
| mm | l/min | bar |
| 1,5 | 1 | 0 - 8,0 |
| 2 | 1,6 | 0 - 5,0 |
| 3 | 3,3 | 0 - 3,0 |
| 5 | 5,5 | 0 - 1,0 |

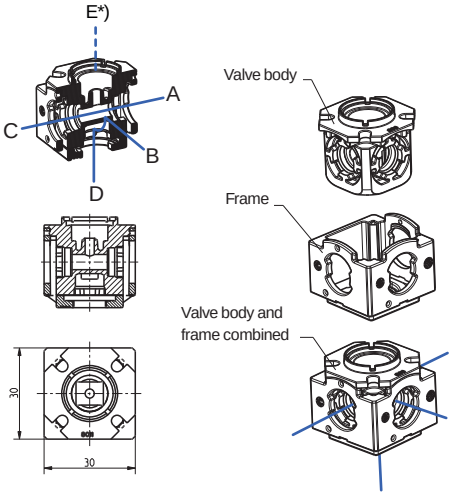
| | | | |
|---|---|---|---|
| **Coil type** | MS.006 or MS.026 | | |
| **Nominal voltage** | 230<br>110<br>24<br>24 | V AC<br>V AC<br>V AC<br>V DC | 50/60 Hz<br>50/60 Hz<br>50/60 Hz |
| | other voltages on request | | |
| **Voltage tolerance** | +10% -15% | | |
| **Duty cycle** | 100%<br>50% | MS.006<br>MS.026 | |
| **Nominal power** | 10,2 W<br>10,0 W | 18 VA MS.006<br>15 VA MS.026 | |
| **Protection Type** | IP 00 | higher IP-classes on request | |
| **Coil connections** | flat tabs 6,3 x 0,8 mm | | |
| **Insulation class** | F | according to EN 60730 | |
| **Protection class** | III | according to EN 60730 (for incorporation in class I) | |

## Materials

| | |
|---|---|
| **Valve body** | PEI<br>PEEK and other materials on request |
| **Plunger guide** | stainless steel |
| **Plunger** | stainless steel |
| **Membrane and sealings** | EPDM<br>NBR on request<br>FPM on request |
| **Coil coating** | PBT, PET or epoxy resin |



**Connection system patented EP 1 321 698**




## Options

on request
medium separated version
E*) 3/2-way version
valve body: PEEK

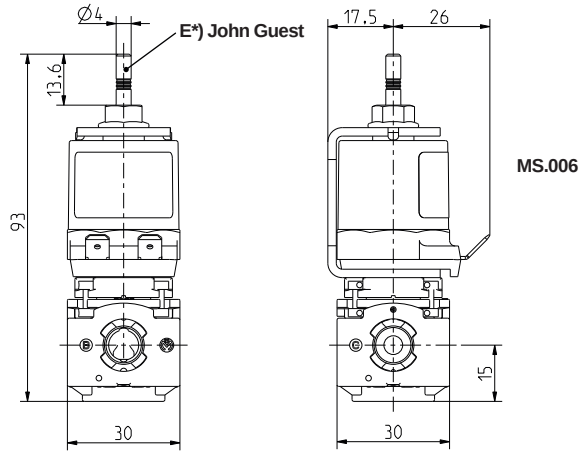
Flow paths in normally closed valves:

When a 2/2 way valve is closed, the medium paths C-A and B-D are separated by the membrane. The 3/2 way valve has an additional port (E*) which connected to the B-D medium path.

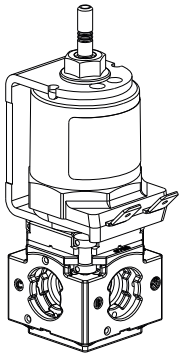
When the valve is opened medium moves freely between C-A and B-D medium paths. In the 3/2 way version, opening the valve closes port (E*)

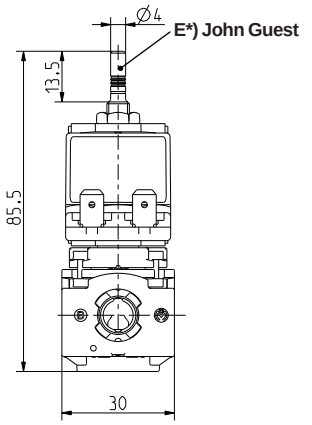
valve closed: C-A ; B-D-E*) separate
valve opened: C-A-B-D

**on request**
**3/2-way version**

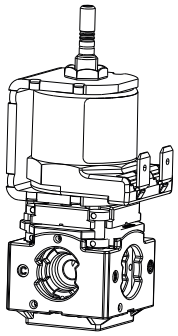



**MS.006**






**MS.026**

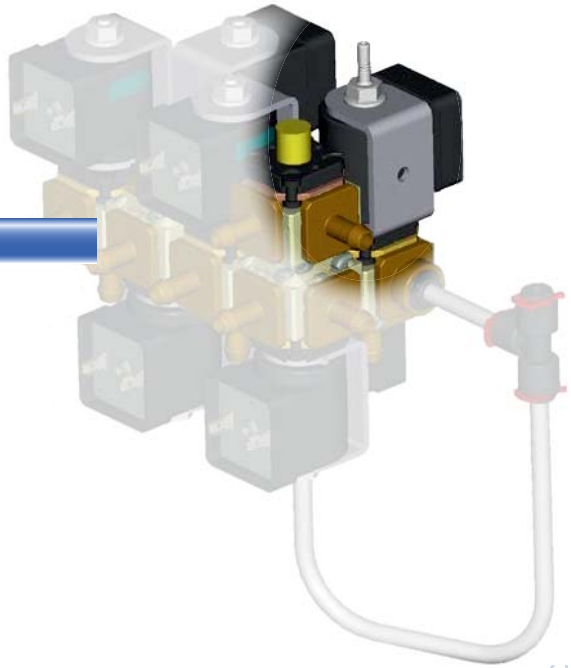


## Technical Data

| | | |
|---|---|---|
| **Type** | modular valve | |
| **Construction** | direct acting | |
| **Function** | 3/2-way | |
| **Fitting position** | any | |
| **Media** | potable water and physically and chemically similar media | |
| **T-Medium** | 98 | °C max. |
| **T-Ambient** | 70 | °C max. |

| **DN** | **Cv-value** | **p-Operating** |
|---|---|---|
| mm | l/min | bar |
| 1,5 | 1 | 0 - 8,0 |
| 2 | 1,6 | 0 - 5,0 |
| 3 | 3,3 | 0 - 3,0 |
| 5 | 5,5 | 0 - 1,0 |

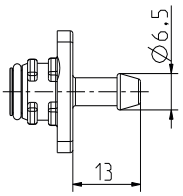
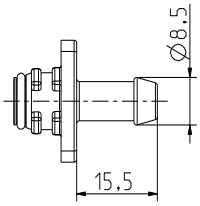
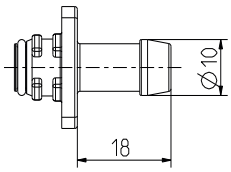
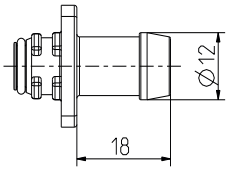
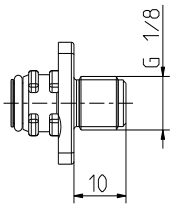
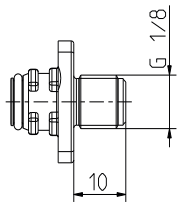
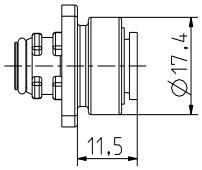
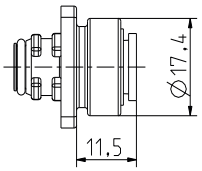
| | | |
|---|---|---|
| **Coil type** | MS.006 or MS.026 | |
| **Nominal voltage** | 24 | V DC |
| | other voltages on request | |
| **Voltage tolerance** | +10% -15% | |
| **Duty cycle** | 100%<br>50% | MS.006<br>MS.026 |
| **Nominal power** | 10,2 W<br>10,0 W | 18 VA MS.006<br>15 VA MS.026 |
| **Protection Type** | IP 00 | higher IP-classes on request |
| **Coil connections** | flat tabs 6,3 x 0,8 mm | |
| **Insulation class** | F | according to EN 60730 |
| **Protection class** | III | according to EN 60730<br>(for incorporation in class I) |

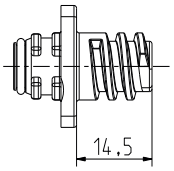
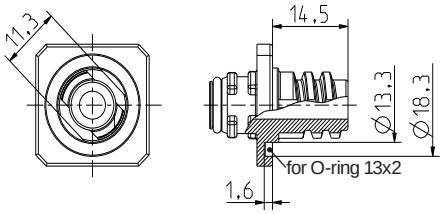
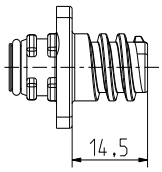
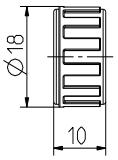
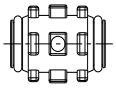
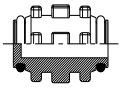
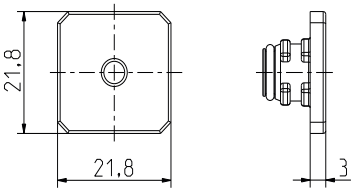
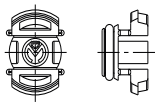
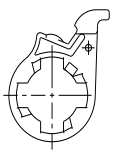


## Options

E*)
John Guest Ø4
G 1/8, orifice size 2 mm Ø or less on request

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| Image | Drawing | Description | part no. |
|---|---|---|---|
|  |  | nozzle connection | 007295 |
|  |  | nozzle connection | 007294 |
|  |  | nozzle connection | 007318 |
|  |  | nozzle connection | 007317 |
| | | | |
|  |  | threaded connection open | 007282 |
|  |  | threaded connection closed | 007283 |
| | | | |
|  |  | adapter connection John Guest for tube Ø 6mm (max. T-medium and T-ambient 65 ° C) | 007584 |
|  |  | adapter connection John Guest for tube Ø 8mm (max. T-medium and T-ambient 65 ° C) | 007585 |

| Image | Drawing | Description | part no. |
|---|---|---|---|
|  |  | boiler connection open | 006812 |
|  |  | boiler connection with double-sided anti-twist flattening on thread | 006690 |
|  |  | boiler connection closed | 007308 |
|  |  | fixing nut | 007307 |
| | | | |
|  |  | coupling open | 007289 |
|  |  | coupling closed | 007339 |
| | | | |
|  |  | cover plate | 009206 |
|  |  | closure | 007284 |
|  |  | clamp | 006732 |

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