



Type 0340 can be combined with...



#### Type 2508

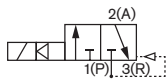
Cable plug

## 3/2-way solenoid valve for gases and fluids

- Service friendly manual override
- Analytical pilot valve for increased safety
- Optimized piston design for low switching pressure
- Energy saving impulse coil
- Explosion proof types

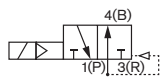
The pilot-controlled 3/2-way solenoid valve Type 0340 with smoothly operating servopiston requires a differential pressure of 0.5 bar for complete opening and closing. A 3/2-way pilot valve (pivoted armature valve) ensures safe and reliable operation.

#### Circuit function C



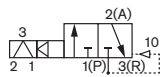
3/2-way valve, when de-energized outlet port A exhausted, with 3-way pilot control

#### Circuit function D



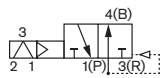
3/2-way valve, when de-energized outlet port B pressurized, with 3-way pilot control

#### Circuit function C (Impulse)



3/2-way valve, when de-energized outlet port A exhausted, with 3-way pilot control

#### Circuit function D (Impulse)



3/2-way valve, when de-energized outlet port B pressurized, with 3-way pilot control

| Technical data               |  |
|------------------------------|--|
| <b>Orifice</b>               | DN 8 - 40 mm   |
| <b>Body material</b>         | Brass  |
| <b>Seal material</b>         | NBR  |
| <b>Medium</b>                | Neutral medium: Compressed air, water, hydraulic oil   |
| <b>Medium temperature</b>    | 0 to +90 °C  |
| <b>Ambient temperature</b>   | Max. +55 °C  |
| <b>Viscosity</b>             | Max. 21 mm <sup>2</sup> /s   |
| <b>Voltage tolerance</b>     | ±10%   |
| <b>Duty cycle</b>            | Continuous operation 100% ED   |
| <b>Electrical connection</b> | Cable plug for Ø 7 mm cable (included in delivery)<br>Ex-Version only with terminal box or 3 m cable |
| <b>Protection class</b>      | IP65 with Cable Plug or terminal box   |
| <b>Installation</b>          | As required, preferably with actuator upright  |

|  |  |
|--|--|
| <b>Flow rate</b><br>Kv value water [m <sup>3</sup> /h] | measured at +20 °C, 1 bar pressure at valve inlet and free outlet (see ordering chart)                                   |
| <b>Pressure values [bar]</b>                           | Overpressure to the atmospheric pressure (see ordering chart)  |
| <b>Response times [ms]:</b><br>Opening<br>Closing      | Measured at valve outlet at 6 bar and +20 °C<br>Pressure rise 0 to 90%,<br>Pressure drop 100 to 10% (see ordering chart) |

## Technical data

### Standard version

| Orifice [mm] | Kv value water PDA [m³/h] | Port connection A/B and P |       | Pressure range [bar] | Electr. power consumption |        |                |        | Response times |              | Weight [kg] |
|--------------|---------------------------|---------------------------|-------|----------------------|---------------------------|--------|----------------|--------|----------------|--------------|-------------|
|              |                           | G                         | NPT   |                      | Inrush AC [VA]            | DC [W] | [VA] AC [VA/W] | DC [W] | Opening [ms]   | Closing [ms] |             |
| 8            | 0,95                      | 1/4                       | 1/4   | 0,5 - 16             | 30                        | 8      | 15/8           | 8      | 25             | 25           | 1,0         |
| 12           | 2,30                      | 3/8                       | 3/8   |                      |                           |        |                |        | 30             | 30           | 1,2         |
| 12           | 2,60                      | 1/2                       | 1/2   |                      |                           |        |                |        | 30             | 30           | 1,2         |
| 20           | 6,60                      | 3/4                       | 3/4   |                      |                           |        |                |        | 40             | 40           | 2,2         |
| 40           | 24,00                     | 1 1/2                     | 1 1/2 |                      |                           |        |                |        | 120            | 120          | 6,8         |

### Impulse version

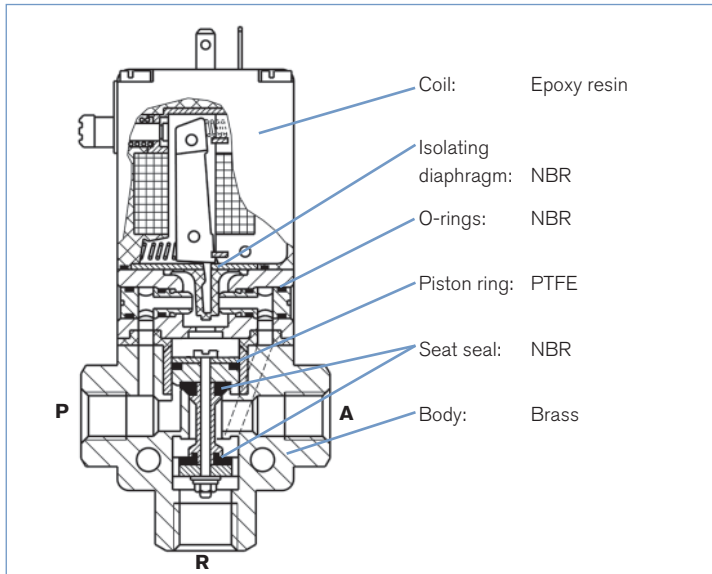
| Orifice [mm] | Kv value water PDA [m³/h] | Port connection A/B and P |       | Pressure range [bar] | Electr. power consumption |        | Response times |              | Weight [kg] |
|--------------|---------------------------|---------------------------|-------|----------------------|---------------------------|--------|----------------|--------------|-------------|
|              |                           | G                         | NPT   |                      | Inrush AC [VA]            | DC [W] | Opening [ms]   | Closing [ms] |             |
| 8            | 0,95                      | 1/4                       | 1/4   | 0,5 - 16             | 11                        | 11     | 25             | 25           | 1,0         |
| 12           | 2,30                      | 3/8                       | 3/8   |                      |                           |        | 30             | 30           | 1,2         |
| 12           | 2,60                      | 1/2                       | 1/2   |                      |                           |        | 30             | 30           | 1,2         |
| 20           | 6,60                      | 3/4                       | 3/4   |                      |                           |        | 40             | 40           | 2,2         |
| 40           | 24,00                     | 1 1/2                     | 1 1/2 |                      |                           |        | 120            | 120          | 6,8         |

### Explosion proofed version with temperature class T5

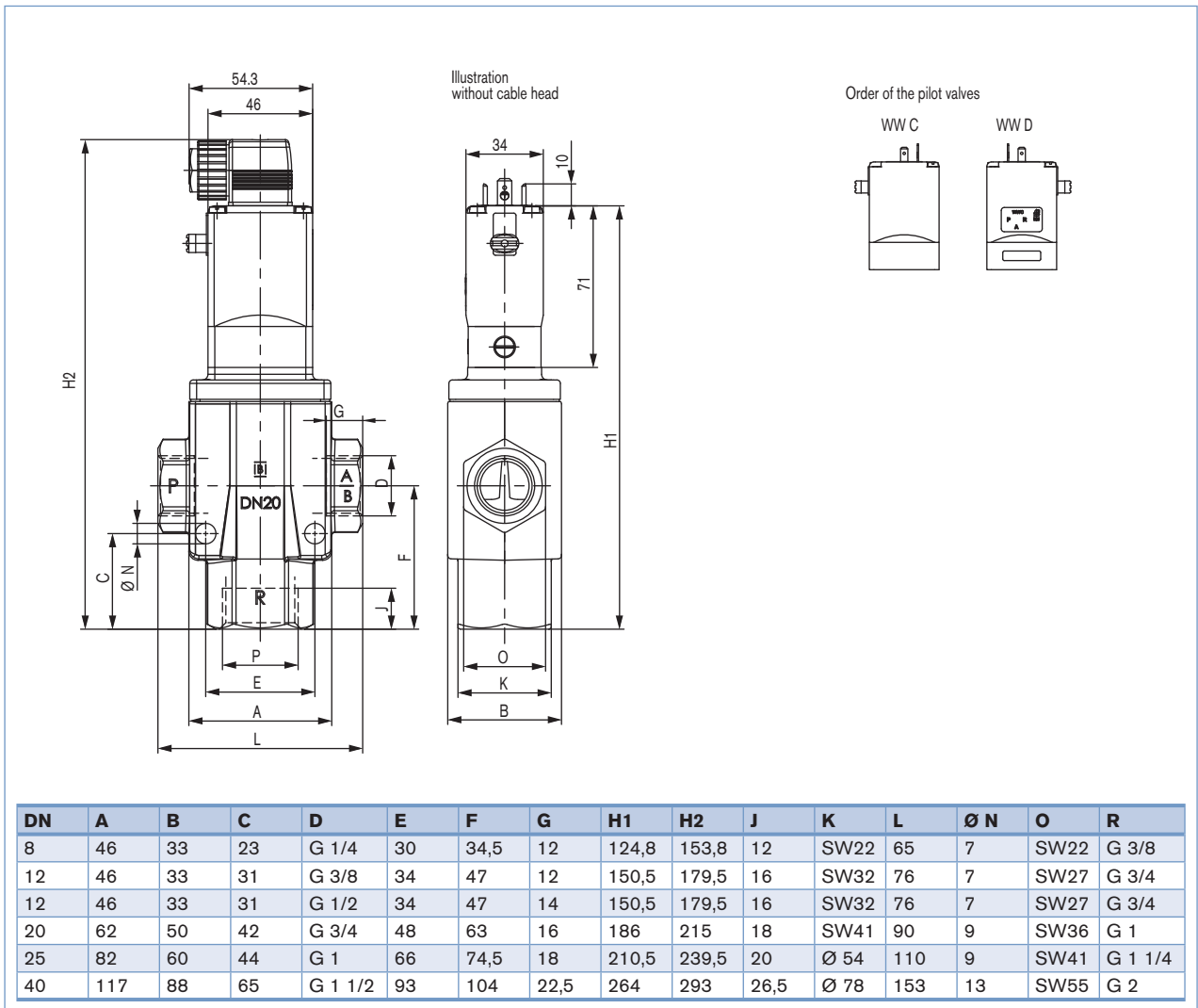
| Orifice [mm] | Kv value water PDA [m³/h] | Port connection A/B and P |     | Pressure range [bar] | Electr. power consumption |                | Response times |              | Weight [kg] |
|--------------|---------------------------|---------------------------|-----|----------------------|---------------------------|----------------|----------------|--------------|-------------|
|              |                           | G                         | NPT |                      | Inrush AC [VA]            | [VA] AC [VA/W] | Opening [ms]   | Closing [ms] |             |
| 8            | 0,95                      | 1/4                       | 1/4 | 0,5 - 16             | 40                        | 3              | 25             | 25           | 1,0         |
| 12           | 2,30                      | 3/8                       | 3/8 |                      |                           |                | 30             | 30           | 1,2         |
| 12           | 2,60                      | 1/2                       | 1/2 |                      |                           |                | 30             | 30           | 1,2         |
| 20           | 6,60                      | 3/4                       | 3/4 |                      |                           |                | 40             | 40           | 2,2         |
| 25           | 10,00                     | 1                         | 1   | 0,5 - 10             |                           |                | 70             | 70           | 2,7         |

The orifice size of connection R is larger than the ports A / B and P (see table of dimensions). Thus, the AR flow rate increases by a factor of 1.5 to 2 in the table value.

Material

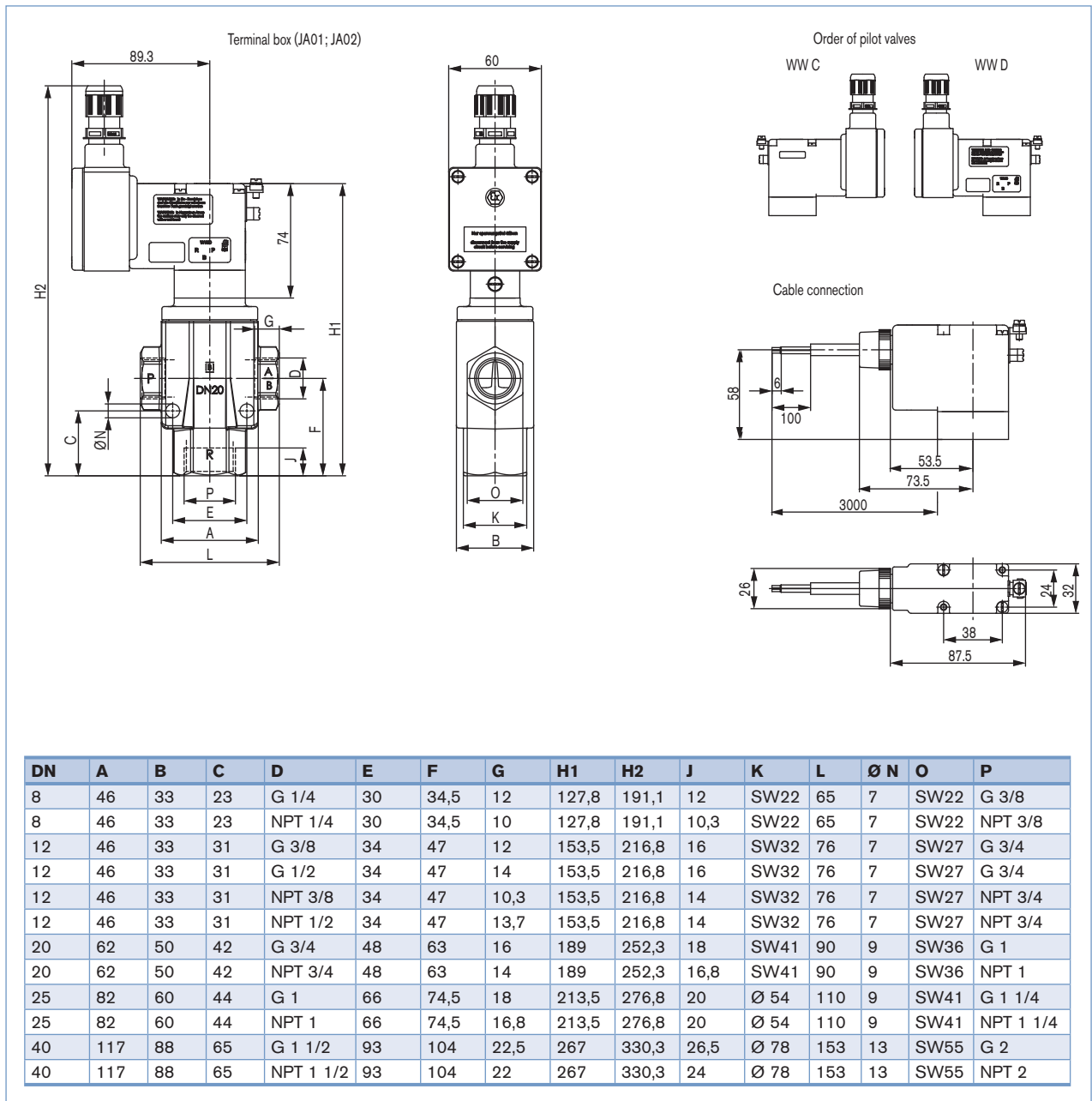


Dimensions [mm] - Standard version



The diagram shows the valve with circuit function C with the terminals P, R and A / B. (see drawing). In circuit function D the manual operation is above port A / B.

Dimensions [mm] - Explosion proof version



## Ordering charts standard version (other versions on request)

All valves with manual override, brass body, NBR seal and cable plug

| Circuit functions                  | Orifice [mm] | Port connection G or NPT | Kv value water P→A [m <sup>3</sup> /h] | Pressure range [bar] | Voltage/Frequency [V/Hz] | Item no. G | Item no. NPT |
|------------------------------------|--------------|--------------------------|--|----------------------|--------------------------|------------|--------------|
| <b>C</b><br>A 3/2-way valve NC<br> | 8,0          | 1/4                      | 0,95                                   | 0,5 - 16             | 012/DC                   | 042 506    | x            |
|                                    |              |                          |  |                      | 024/DC                   | 041 317    | x            |
|                                    |              |                          |  |                      | 024/50                   | 041 318    | x            |
|                                    |              |                          |  |                      | 110/50                   | 041 325    | x            |
|                                    |              |                          |  |                      | 230/50                   | 041 329    | x            |
|                                    |              |                          |  |                      | 024/50                   | 041 351    | x            |
|                                    | 12           | 3/8                      | 2,3                                    | 0,5 - 16             | 230/50                   | 041 353    | x            |
|                                    |              |                          |  |                      | 024/DC                   | 041 333    | x            |
|                                    |              |                          |  |                      | 024/50                   | 041 334    | 151 477      |
|                                    |              |                          |  |                      | 110/50                   | 041 340    | x            |
|                                    |              |                          |  |                      | 230/50                   | 041 346    | x            |
|                                    |              |                          |  |                      | 240/50                   | 042 277    | x            |
|                                    | 20           | 3/4                      | 6,6                                    | 0,5 - 16             | 024/DC                   | 041 354    | x            |
|                                    |              |                          |  |                      | 024/50                   | 041 665    | x            |
|                                    |              |                          |  |                      | 110/50                   | 041 359    | 125 822      |
|                                    |              |                          |  |                      | 230/50                   | 041 361    | x            |
| 024/DC                             |              |                          |  |                      | 041 537                  | x          |              |
| 110/50                             |              |                          |  |                      | 042 864                  | 120 389    |              |
| 25                                 | 1            | 10,0                     | 0,5 - 10                               | 230/50               | 041 364                  | x          |              |
|                                    |              |                          |  | 024/DC               | 042 319                  | x          |              |
|                                    |              |                          |  | 230/50               | 041 366                  | x          |              |
|                                    |              |                          |  | 024/DC               | 041 367                  | x          |              |
|                                    |              |                          |  | 024/50               | 041 368                  | x          |              |
|                                    |              |                          |  | 230/50               | 041 371                  | x          |              |
| <b>D</b><br>3/2-way valve NO<br>   | 8,0          | 1/4                      | 0,95                                   | 0,5 - 16             | 024/DC                   | 041 367    | x            |
|                                    |              |                          |  |                      | 024/50                   | 041 368    | x            |
|                                    |              |                          |  |                      | 230/50                   | 041 371    | x            |
|                                    |              |                          |  |                      | 230/50                   | 041 386    | x            |
|                                    |              |                          |  |                      | 024/DC                   | 041 374    | x            |
|                                    |              |                          |  |                      | 024/50                   | 041 375    | x            |
|                                    | 12           | 3/8                      | 2,3                                    | 0,5 - 16             | 230/50                   | 041 380    | x            |
|                                    |              |                          |  |                      | 024/DC                   | x          | x            |
|                                    |              |                          |  |                      | 024/50                   | x          | x            |
|                                    |              |                          |  |                      | 110/50                   | x          | x            |
|                                    |              |                          |  |                      | 230/50                   | x          | x            |
|                                    |              |                          |  |                      | 024/DC                   | x          | x            |
| 20                                 | 3/4          | 6,6                      | 0,5 - 16                               | 024/DC               | x                        | x          |              |
|                                    |              |                          |  | 024/50               | x                        | x          |              |
|                                    |              |                          |  | 110/50               | x                        | x          |              |
|                                    |              |                          |  | 230/50               | x                        | x          |              |
|                                    |              |                          |  | 024/DC               | x                        | x          |              |
|                                    |              |                          |  | 110/50               | x                        | x          |              |
| 25                                 | 1            | 10,0                     | 0,5 - 10                               | 024/DC               | x                        | x          |              |
|                                    |              |                          |  | 110/50               | x                        | x          |              |
|                                    |              |                          |  | 230/50               | x                        | x          |              |
|                                    |              |                          |  | 024/DC               | x                        | x          |              |
|                                    |              |                          |  | 110/50               | x                        | x          |              |
|                                    |              |                          |  | 230/50               | x                        | x          |              |
| 40                                 | 1 1/2        | 24,0                     | 0,5 - 10                               | 024/DC               | x                        | x          |              |
|                                    |              |                          |  | 230/50               | x                        | x          |              |

## Ordering charts - impulse version (other versions on request)

All valves with manual override, brass body, NBR seal and cable plug

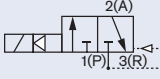
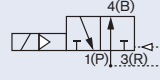
| Circuit functions                 | Orifice [mm] | Port connection G or NPT | Kv value water P→A [m <sup>3</sup> /h] | Pressure range [bar] | Voltage/Frequency [V/Hz] <sup>1)</sup> | Item no. G | Item no. NPT |
|-----------------------------------|--------------|--------------------------|--|----------------------|--|------------|--------------|
| <b>C</b><br>3/2-way valve NC<br>  | 8,0          | 1/4                      | 0,95                                   | 0,5 - 16             | 024/DC                                 | 042 016    | x            |
|                                   | 12           | 1/2                      | 2,6                                    | 0,5 - 16             | 024/DC                                 | 044 216    | x            |
|                                   | 20           | 3/4                      | 6,6                                    | 0,5 - 10             | 024/DC                                 | x          | x            |
|                                   | 40           | 1 1/2                    | 24,0                                   | 0,5 - 10             | 024/DC                                 | x          | x            |
| <b>D</b><br>3/2 way valve, NO<br> | 8,0          | 1/4                      | 0,95                                   | 0,5 - 16             | 024/DC                                 | 122 805    | x            |
|                                   | 12           | 1/2                      | 2,6                                    | 0,5 - 16             | 024/DC                                 | 043 429    | x            |
|                                   | 20           | 3/4                      | 6,6                                    | 0,5 - 10             | 024/DC                                 | x          | x            |
|                                   | 40           | 1 1/2                    | 24,0                                   | 0,5 - 10             | 024/DC                                 | x          | x            |

<sup>1)</sup> Further voltages on request

x Article variant available, order number upon request

## Ordering charts - explosion proofed versions (other versions on request)

All valves with manual actuation, brass body, NBR seals and cable outlet 3 m <sup>1)</sup>

| Circuit functions  | Orifice [mm] | Port connection G or NPT | Kv value water P→A [m <sup>3</sup> /h] | Pressure range [bar] | Voltage/Frequency [V/Hz] UC | Item no. G | Item no. NPT |
|--|--------------|--------------------------|--|----------------------|-----------------------------|------------|--------------|
| C<br>A 3/2-way valve NC<br> | 8,0          | 1/4                      | 0,95                                   | 0,5 - 16             | 24/DC                       | x          | x            |
|  |              |                          |  |                      | 110-120/60                  | x          | x            |
|  |              |                          |  |                      | 220-240/50                  | x          | x            |
|  | 12           | 3/8                      | 2,3                                    | 0,5 - 16             | 24/DC                       | x          | x            |
|  |              |                          |  |                      | 110-120/60                  | x          | x            |
|  |              |                          |  |                      | 220-240/50                  | x          | x            |
|  |              |                          |  |                      | 24/DC                       | x          | x            |
|  |              |                          |  |                      | 110-120/60                  | x          | x            |
|  |              |                          |  |                      | 220-240/50                  | x          | x            |
|  | 20           | 3/4                      | 6,6                                    | 0,5 - 16             | 24/DC                       | x          | x            |
|  |              |                          |  |                      | 110-120/60                  | x          | x            |
|  |              |                          |  |                      | 220-240/50                  | x          | x            |
| 25   | 1            | 10,0                     | 0,5 - 10                               | 24/DC                | x                           | x          |              |
|  |              |                          |  | 110-120/60           | x                           | x          |              |
|  |              |                          |  | 220-240/50           | x                           | x          |              |
| D<br>3/2-way valve NO<br>  | 8,0          | 1/4                      | 0,95                                   | 0,5 - 16             | 24/DC                       | x          | x            |
|  |              |                          |  |                      | 110-120/60                  | x          | x            |
|  |              |                          |  |                      | 220-240/50                  | x          | x            |
|  | 12           | 1/2                      | 2,6                                    | 0,5 - 16             | 24/DC                       | x          | x            |
|  |              |                          |  |                      | 110-120/60                  | x          | x            |
|  |              |                          |  |                      | 220-240/50                  | x          | x            |
|  | 20           | 3/4                      | 6,6                                    | 0,5 - 16             | 24/DC                       | x          | x            |
|  |              |                          |  |                      | 110-120/60                  | x          | x            |
|  |              |                          |  |                      | 220-240/50                  | x          | x            |
|  | 25           | 1                        | 10,0                                   | 0,5 - 10             | 24/DC                       | x          | x            |
|  |              |                          |  |                      | 110-120/60                  | x          | x            |
|  |              |                          |  |                      | 220-240/50                  | x          | x            |

<sup>1)</sup> Terminal connection version also available

x Article variant available, order number upon request

To find your nearest Bürkert facility, click on the orange box → [www.burkert.com](http://www.burkert.com)

In case of special application conditions, please consult for advice.

Subject to alterations  
© Christian Bürkert GmbH & Co. KG

1402/4\_EU-en\_00891626