**DATA SHEET**

**Type 0330**

bürkert
FLUID CONTROL SYSTEMS









# Direct-acting 2/2 or 3/2-way pivoted armature valve

- Direct-acting, media-separated valve up to DN 5
- Maintenance-free pivoted armature technology
- Vibration-proof, block screwed coil system
- Service-friendly, robust manual override
- Explosion-proof variants

Product variants described in the data sheet may differ from the product presentation and description.

## Can be combined with



**Type 1087** ▸
Timer



**Type 2518** ▸
Cable Plug
DIN EN 175301-803 - Form A

## Type description

The 0330 valve is a direct-acting, media-separated pivoted armature valve. It is available as a 2/2 and 3/2-way variant. As a 3/2-way variant, it can be used as a distributor or mixing valve. Various diaphragm materials and circuit functions are available depending on the actual application. The standard brass body meets all European drinking water requirements. Stainless steel (316L), PVDF, and polypropylene bodies complete the offering. The solenoid coils are moulded with a chemically resistant epoxy. Since the coil system is separated from the medium by a diaphragm, the valve is especially suitable for critical media such as aggressive acids and lyes. The 0330 is equipped with manual override for start-up and testing. To reduce energy demands, all the coils can be delivered with electronic power reduction or as an impulse variant. The switching status can be indicated via position feedback as a binary or NAMUR signal. In combination with a plug to DIN EN 175301-803 Form A, the valves satisfy degree of protection IP65/67 – and NEMA 4X when combined with a stainless steel or plastic valve body.

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## 1. General Technical Data

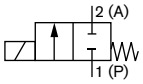
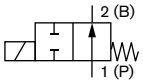
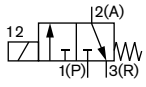
| | |
|---|---|
| **Product properties** | |
| Dimensions | Detailed information can be found in chapter "4. Dimensions" on page 6. |
| **Material** | |
| Seal | EPDM / FKM / FFKM / NBR |
| Body | Brass<br>Stainless steel (1.4401)<br>PP (Polypropylene)<br>PVDF (Polyvinylidene fluoride) |
| Material resistance | More detailed information can be found in our resistance table, "3.1. Chemical Resistance Chart – Bürkert resistApp" on page 5. |
| Weight | Metal body 0.47 kg<br>Plastic body 0.40 kg |
| Orifice | DN 2…DN 5 |
| Thermal insulation class of solenoid coil | H |
| **Performance data** | |
| **Duty cycle** | |
| With brass and stainless steel | 100 % |
| With PP and PVDF | 40 % duty cycle (60 % intermittent operation) in 30 min for 8 W version<br>100 % duty cycle for 5 W version |
| Max. cycling rate (explosion proof version) | Medium temperature up to +70 °C: 20/min<br>Medium temperature up to +90 °C: 5/min |
| **Switching times[1.] standard version** | |
| Frequency AC | Opening: 8…15 ms<br>Closing: 8…15 ms |
| Frequency DC | Opening: 10…20 ms<br>Closing: 10…20 ms |
| **Switching times[1.] explosion proof version** | |
| Orifice 2…4 | Opening: 30 ms<br>Closing: 40 ms |
| **Electrical data** | |
| Voltage tolerance | ±10 % |
| **Power consumption standard** | |
| Frequency AC | Inrush: 30 VA<br>Hold: 15 VA<br>Hold: 8 W |
| Frequency DC | Cold: 11 W<br>Warm: 8 W |
| **Power consumption Impulse (inrush winding)** | |
| Frequency AC | Hold: 20 VA<br>Hold: 11 W |
| Frequency DC | Cold: 11 W<br>Warm: 8 W |
| **Power consumption explosion proof version** | |
| Frequency AC/DC | Inrush: 40 W<br>Hold: 3 W |
| **Voltages** | |
| Standard version | 24 V 50 Hz, 110 V 50 Hz, 230 V 50 Hz, 120 V 60 Hz, 240 V 60 Hz, 12 V DC, 24 V DC<br>(further voltages on request) |
| Explosion proof version | 24 V, 230 V (further voltages on request) |

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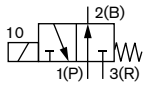
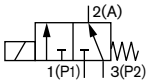
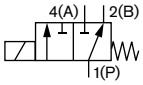
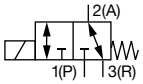
| | |
|---|---|
| **Medium data** | |
| Viscosity | Max. 37 $mm^2/s$ |
| **Operating medium** | |
| With NBR | Neutral medium such as compressed air, town gas, water, hydraulic oil, oils and fats without additives, oxygen |
| With EPDM | Alkalis, acids to medium concentrations, alkaline washing and bleaching lyes |
| With FKM | Oxydizing acids and substances, hot oils with additives, salt solutions, waste gases, oxygen |
| With FFKM | Aggressive mediums, hot air, hot oils |
| **Medium temperature** | |
| With body material brass or stainless steel | NBR: 0 °C…+80 °C<br>EPDM: -30 °C…+90 °C<br>FKM: 0 °C…+90 °C<br>FFKM: +5 °C…+90 °C |
| With body material PP or PVDF | NBR: 0 °C…+80 °C<br>EPDM: -30 °C…+80 °C<br>FKM: 0 °C…+80 °C<br>FFKM: +5 °C…+80 °C |
| **Process/Port connection & communication** | |
| Port connection | G ¼, NPT ¼, (RC ¼ and G ⅛ on request, G ⅛ not possible for PP and PVDF) |
| **Electrical connection** | |
| Standard version | Pin terminal acc. to DIN EN 175301-803 Form A for cable pug Type 2518/2509<br>(also on request with moulded cable or terminal box) |
| Explosion proof version | Moulded cable (for more detailed information, refer to the operating manual ACP016), terminal box without safety fuse |
| **Approvals and certificates** | |
| **Standard version** | |
| Degree of protection | IP65 with cable plug |
| **Explosion proof version** | |
| Degree of protection | IP65 |
| Type of protection | II 2 G Ex mb IIC T4 Gb<br>II 2 D EX mb IIIC T130°Db |
| Certificate | EPS 16 ATEX 1 111 X<br>IECEx EPS 16.0049X |
| **Environment and installation** | |
| Installation position | As required, preferably with actuator upright |
| **Ambient temperature (max.)** | |
| Standard version | +55 °C |
| Explosion proof version | +40 °C |

1.) Measured at valve outlet at 6 bar and +20 °C. Opening: pressure rise 0…90 %, closing: pressure drop 100…10 %

## 2. Circuit functions

| Circuit functions | Description |
|---|---|
|  | **Type: A, solenoid valve**<br>2/2 way<br>Direct-acting<br>Normally closed |
|  | **Type: B, solenoid valve**<br>2/2 way<br>Direct-acting<br>Normally opened |
|  | **Type: C, solenoid valve**<br>3/2 way<br>Direct-acting<br>Normally closed |

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| Circuit functions | Description |
|---|---|
|  | **Type: D, solenoid valve**<br>3/2 way<br>Direct-acting<br>Normally opened |
|  | **Type: E, mixing valve (solenoid valve)**<br>3/2 way |
|  | **Type: F, distribution valve (solenoid valve)**<br>3/2 way<br>Direct-acting |
|  | **Type: T, solenoid valve**<br>3/2 way<br>Direct-acting<br>Flow direction optional |

## 3. Materials

### 3.1. Chemical Resistance Chart – Bürkert resistApp

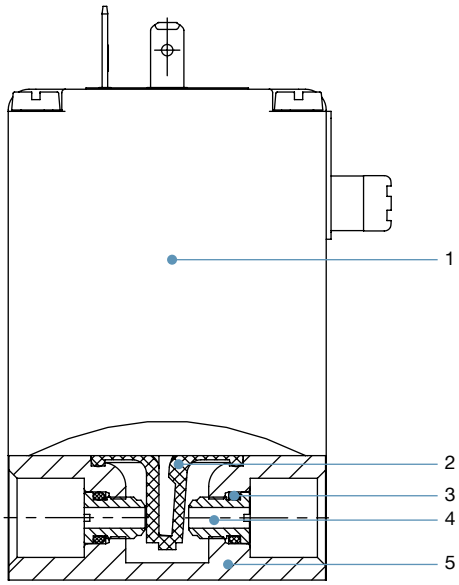



**Bürkert resistApp – Chemical Resistance Chart**

You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

Start Chemical Resistance Check

### 3.2. Material specifications




| No. | Element | Material |
|---|---|---|
| 1 | Coil | Epoxy |
| 2 | Diaphragm | EPDM, FKM, FFKM, NBR |
| 3 | O-ring | EPDM, FKM, FFKM, NBR |
| 4 | Seat | Brass<br>Stainless steel (1.4401)<br>PP (Polypropylene)<br>PVDF (Polyvinylidene fluoride) |
| 5 | Valve body | Brass<br>Stainless steel (1.4401)<br>PP (Polypropylene)<br>PVDF (Polyvinylidene fluoride) |

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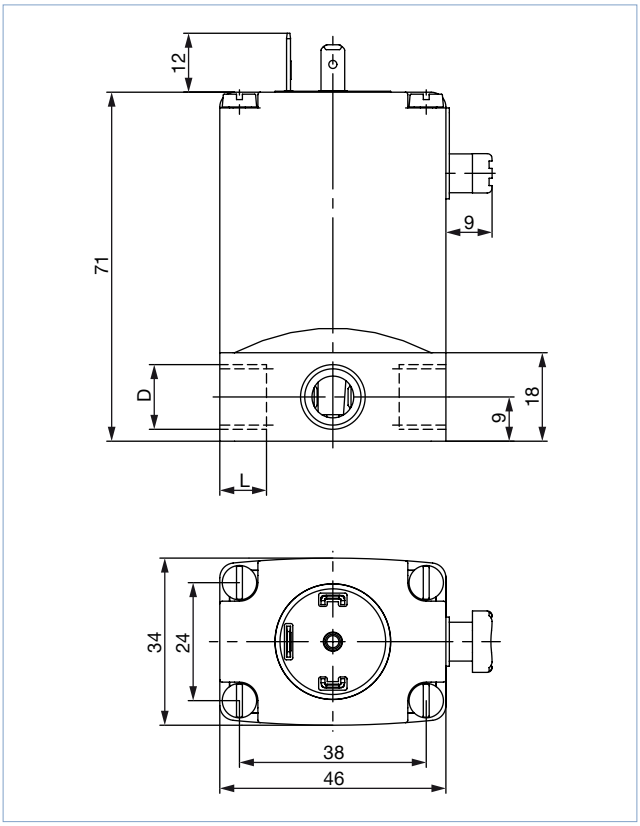
# 4. Dimensions

## 4.1. Standard version

**Note:**

- Dimensions in mm
- The dimensions D1 and L1 apply to G-threads.
- The dimensions D2 and L2 apply to NPT-threads.
- For metal housings, the minimum thread length at the middle connection is 7.5 mm.
- Mounting device: By drilling M4 × 8 (metal housing) or self-tapping screws (plastic housing) on underside of the housing on the hole pattern 38 × 24.
- The dimensions of the cable plug Type 2518 can be found in chapter "8.4. Ordering chart accessories" on page 17.

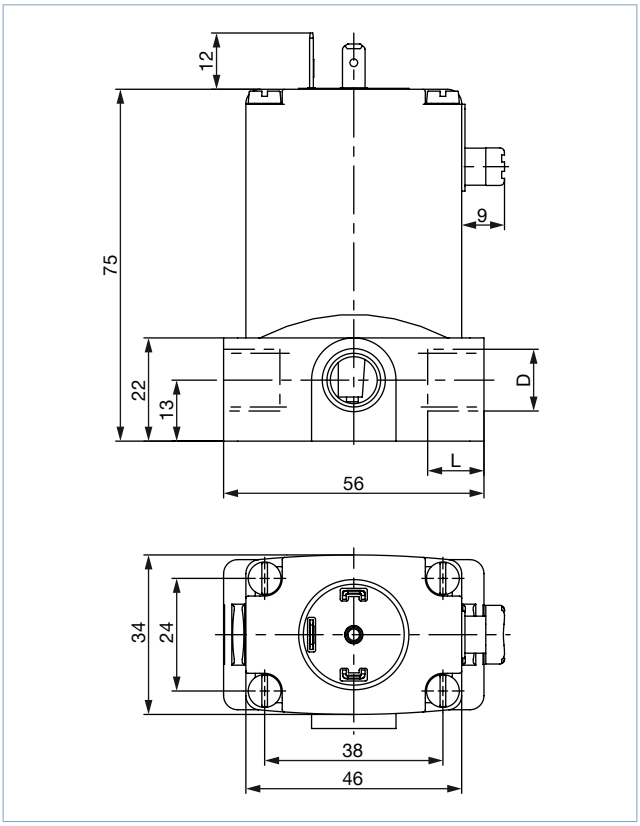
**Metal housing**




| D1 | L1 | D2 | L2 |
|---|---|---|---|
| G ⅛ | 9 | – | – |
| G ¼ | 9 | NPT ¼ | 7.5 |

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## Plastic housing




| D | L |
|---|---|
| G ¼ | 12 |
| NPT ¼ | 11 |

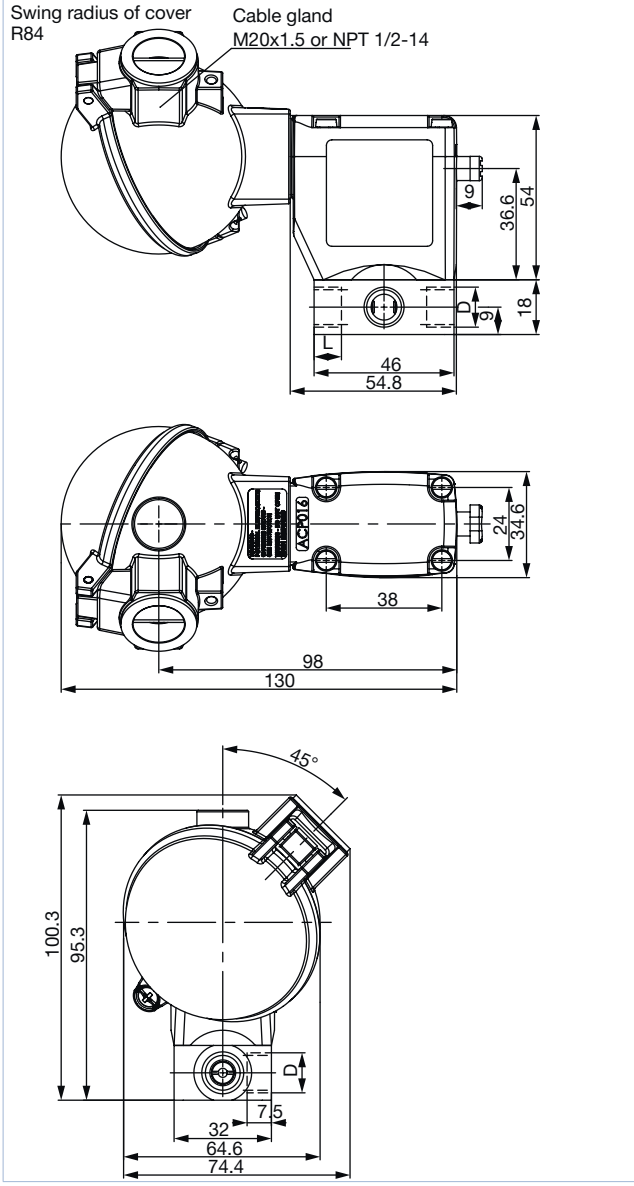
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## 4.2. Explosion proof version

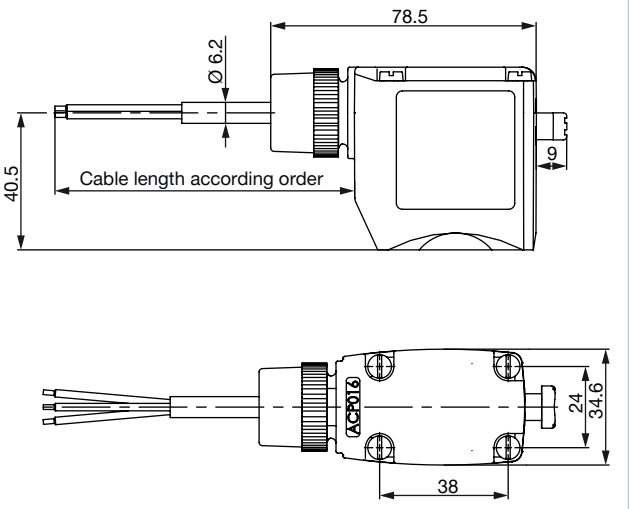
**Note:**

- Dimensions in mm
- The dimensions D1 and L1 apply to G-threads.
- The dimensions D2 and L2 apply to NPT-threads.

**Terminal box version**




**Cable outlet version**



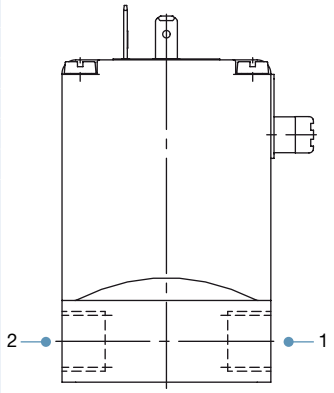
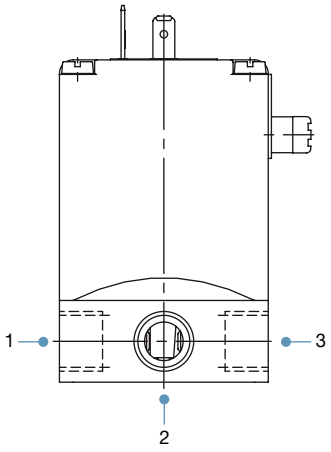

| D1 | L1 | D2 | L2 |
|---|---|---|---|
| G ⅛ | 9 | – | – |
| G ¼ | 9 | NPT ¼ | 7.5 |

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## 5. Device/Process connections

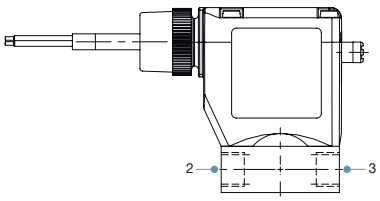
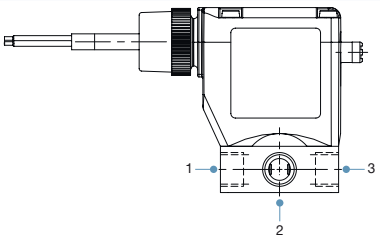
### 5.1. PIN assignment standard version

**Note:**
The pin assignment (marked No. 1, 2 and 3 in the drawing) depends on the circuit function. In the table, compare the respective pin assignment with the corresponding circuit function.

| Circuit function | Connection 1 | Connection 2 | Connection 3 | 2 way | 3 way |
|---|---|---|---|---|---|
| A | P | A | – |  |  |
| B | B | P | – | | |
| C | P | A | R | | |
| D | R | B | P | | |
| E | P1 | A | P2 | | |
| F | A | P | B | | |
| T | NC | $I_N$/OUT | NO | | |

### 5.2. PIN assignment explosion proof version

**Note:**
The pin assignment (marked No. 1, 2 and 3 in the drawing) depends on the circuit function. In the table, compare the respective pin assignment with the corresponding circuit function.

| Circuit function | Connec-tion 1 | Connec-tion 2 | Connec-tion 3 | 2 way | 3 way |
|---|---|---|---|---|---|
| A | P | A | – |  |  |
| B | B | P | – | | |
| C | P | A | R | | |
| D | R | B | P | | |
| E | P1 | A | P2 | | |
| F | A | P | B | | |
| T | NC | $I_N$/OUT | NO | | |

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# 6. Performance specifications

## 6.1. Pressure range and flow rate

### Standard version

| Circuit function | DN | $K_V$ value water | | Pressure range[1.] | | |
|---|---|---|---|---|---|---|
| | | DC | AC (50 or 60 Hz) | Standard[2.] | Vacuum[3.] | Impulse[4.] |
| | | [m³/h] | [m³/h] | [bar] | [bar] | [bar] |
| **Metal body** | | | | | | |
| A / B / C / D / F | 2.0 | 0.08 | 0.11 | 0…16[5.] | -0.98…10 | 0…16[5.] |
| | 3.0 | 0.14 | 0.18 | 0…10 | -0.98…6 | 0…10 |
| | 4.0 | 0.17 | 0.23 | 0…5 | -0.98…3 | 0…5 |
| | 5.0 | 0.29 | 0.29 | 0…2.5 | -0.98…1 | 0…2.5 |
| E | 2.0 | 0.08 | 0.11 | 0…10 | -0.98…8 | 0…10 |
| | 3.0 | 0.14 | 0.18 | 0…6 | -0.98…5 | 0…6 |
| | 4.0 | 0.17 | 0.23 | 0…3 | -0.98…2.5 | 0…3 |
| | 5.0 | 0.29 | 0.29 | 0…1.5 | -0.98…1 | 0…1 |
| T | 2.0 | 0.08 | 0.11 | 0…12 | -0.98…8 | 0…10 |
| | 3.0 | 0.14 | 0.18 | 0…8 | -0.98…5 | 0…6 |
| | 4.0 | 0.17 | 0.23 | 0…4 | -0.98…2.5 | 0…5 |
| | 5.0 | 0.29 | 0.29 | 0…2.5 | -0.98…1 | – |

| Circuit function | DN | $K_V$ value water[6.] | Pressure range[1.] | | | |
|---|---|---|---|---|---|---|
| | | | Standard[2.] AC [50 or 60 Hz] | Standard[2.] DC | Vacuum[3.] | Impulse[4.] |
| | | [m³/h] | [bar] | [bar] | [bar] | [bar] |
| **Plastic body** | | | | | | |
| A / B / C / D / F | 2.0 | 0.13 | 0…16[5.] | 0…12 | -0.98…10 | 0…12 |
| | 3.0 | 0.25 | 0…10 | 0…8 | -0.98…6 | 0…8 |
| | 4.0 | 0.30 | 0…5 | 0…4 | -0.98…3 | 0…4 |
| | 5.0 | 0.40 | 0…4.5 | 0…3 | -0.98…1 | 0…3 |
| E / T | 2.0 | 0.13 | 0…10 | 0…7 | -0.98…7 | 0…7 |
| | 3.0 | 0.25 | 0…6 | 0…4 | -0.98…5 | 0…4 |
| | 4.0 | 0.30 | 0…3 | 0…2 | -0.98…2.5 | 0…2 |

1.) Pressure values with respect to atmospheric pressure (deviating pressure range for 5 W version)

2.) Rated power consumption 8 W

3.) Vacuum possible for all seal materials

4.) Inrush power 11 W

5.) For seal material FKM and FFKM the max. medium pressure is 12 bar

6.) At frequency DC the $K_V$ value is reduced till 10 % to fulfil the function

### Use in other circuit functions

The compression springs installed in the valves differ depending on the circuit function. When used in other circuit functions, the permissible operating pressure changes according to the following table.

| Circuit function | Max. operating pressure [bar] when using the valve in a new circuit function | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Orifice DN 2 | | | | | | Orifice DN 3 | | | | | | Orifice DN 4 | | | | | |
| | A[1.] | B[1.] | C | D | E | F | A | B | C | D | E | F | A | B | C | D | E | F |
| **Metal body (8 W respectively 11 W)** | | | | | | | | | | | | | | | | | | |
| C | 16 | 1.5 | 16 | 1.5 | 1.5 | 16 | 10 | 1 | 10 | 1 | 1 | 10 | 5 | 0.8 | 5 | 0.8 | 0.8 | 5 |
| D | 4 | 16 | 4.5 | 16 | 4 | 4 | 2.5 | 10 | 2.5 | 10 | 2 | 3 | 2 | 5 | 2 | 5 | 2 | 2 |
| T | 8 | 8 | 10 | 10 | 10 | 8 | 6 | 6 | 6 | 6 | 6 | 6 | 3 | 3 | 3 | 3 | 3 | 3 |
| **Plastic body (8 W respectively 11 W)** | | | | | | | | | | | | | | | | | | |
| C | 16 | 1.5 | 16 | 1.5 | 1.5 | 16 | 10 | 1 | 10 | 1 | 1 | 10 | 5 | 0.8 | 5 | 0.8 | 0.8 | 5 |
| D | 4 | 16 | 4.5 | 16 | 4 | 4 | 2.5 | 10 | 2.5 | 10 | 2 | 3 | 2 | 5 | 2 | 5 | 2 | 2 |
| F | 16 | 1.5 | 10 | 1.5 | 1.5 | 16 | 6 | 1 | 6 | 1 | 1 | 10 | 4 | 1 | 4 | 1 | 1 | 5 |

1.) For circuit function A and B the valve must be connected acc. to the pin assignment of 3/2 way valve.

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### Explosion proof version

| Circuit function | DN | $K_v$ value water | Pressure range[1.) 2.)] | |
|---|---|---|---|---|
| | | | Standard | Vacuum |
| | | [m³/h] | [bar] | [bar] |
| **Metal body** | | | | |
| A / B / C / D / F | 2.0 | 0.11 | 0…16 | -0.98…10 |
| | 3.0 | 0.18 | 0…10 | -0.98…6 |
| | 4.0 | 0.23 | 0…5 | -0.98…3 |
| | 5.0 | 0.29 | 0…4 | -0.98…2.5 |
| E | 2.0 | 0.11 | 0…10 | -0.98…8 |
| | 3.0 | 0.18 | 0…6 | -0.98…5 |
| | 4.0 | 0.23 | 0…3.5 | -0.98…2.5 |
| | 5.0 | 0.29 | 0…3 | -0.98…2 |
| T | 2.0 | 0.11 | 0…10 | -0.98…8 |
| | 3.0 | 0.18 | 0…6 | -0.98…5 |

| Circuit function | DN | $K_v$ value water | Pressure range[1.) 2.)] | |
|---|---|---|---|---|
| | | | Standard | Vacuum |
| | | [m³/h] | [bar] | [bar] |
| **Plastic body** | | | | |
| A / B / C / D / F | 2.0 | 0.13 | 0…16 | -0.98…10 |
| | 3.0 | 0.25 | 0…10 | -0.98…6 |
| | 4.0 | 0.30 | 0…5 | -0.98…3 |
| | 5.0 | 0.40 | 0…4.5 | -0.98…1 |
| E / T | 2.0 | 0.13 | 0…10 | -0.98…7 |
| | 3.0 | 0.25 | 0…6 | -0.98…5 |
| | 4.0 | 0.30 | 0…3 | -0.98…2.5 |

1.) Devices with FKM or FFKM diaphragm are reduced to a max. pressure of 12 bar.

2.) Pressure data: Measured as overpressure to the atmospheric pressure

### Use in other circuit functions

The compression springs installed in the valves differ depending on the circuit function. When used in other circuit functions, the permissible operating pressure changes according to the following table.

| Circuit function | Max. operating pressure [bar] when using the valve in a new circuit function | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Orifice DN 2 | | | | | | Orifice DN 3 | | | | | | Orifice DN 4 | | | | | |
| | A[1.)] | B[1.)] | C | D | E | F | A | B | C | D | E | F | A | B | C | D | E | F |
| **Metal body (8 W respectively 11 W)** | | | | | | | | | | | | | | | | | | |
| C | 16 | 1.5 | 16 | 1.5 | 1.5 | 16 | 10 | 1 | 10 | 1 | 1 | 10 | 5 | 0.8 | 5 | 0.8 | 0.8 | 5 |
| D | 4 | 16 | 4.5 | 16 | 4 | 4 | 2.5 | 10 | 2.5 | 10 | 2 | 3 | 2 | 5 | 2 | 5 | 2 | 2 |
| T | 8 | 8 | 10 | 10 | 10 | 8 | 6 | 6 | 6 | 6 | 6 | 6 | 3 | 3 | 3 | 3 | 3 | 3 |
| **Plastic body (8 W respectively 11 W)** | | | | | | | | | | | | | | | | | | |
| C | 16 | 1.5 | 16 | 1.5 | 1.5 | 16 | 10 | 1 | 10 | 1 | 1 | 10 | 5 | 0.8 | 5 | 0.8 | 0.8 | 5 |
| D | 4 | 16 | 4.5 | 16 | 4 | 4 | 2.5 | 10 | 2.5 | 10 | 2 | 3 | 2 | 5 | 2 | 5 | 2 | 2 |
| F | 16 | 1.5 | 10 | 1.5 | 1.5 | 16 | 6 | 1 | 6 | 1 | 1 | 10 | 4 | 1 | 4 | 1 | 1 | 5 |

1.) For circuit function A and B the valve must be connected acc. to the pin assignment of 3/2 way valve.

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# 7. Product accessories

## 7.1. Accessories standard version

| Option | Variable Code | Description |
|---|---|---|
| Impulse version | CF02 | Bistable magnetic system with inrush and drop-off coil; continuous operation or operation with short current pulses (min. 150 ms) possible |
| Oxygen versions | NL02 | Suitable for applications with oxygen (non-metal materials that are in contact with the medium, are tested and approved according to BAM) |
| Increased purity requirements e.g. oil, grease and silicone-free | NL50/NL05 | Wetted parts are specially cleaned and packaged in accordance with the valves |
| Increased tightness requirements | PCxx | Standard units are tested at $10^{-2}$ mbar x l/sec; feasible up to $10^{-6}$ mbar |
| Electrical feedback | LF02/LF03 | See **Type 1060** ▶. Function as opener, closer or toggle switch depending on the connection (no IP65 achievable) |
| High-power electronics | CZ05 | Inrush power 60 W, nominal holding current 3 W; with plastic versions 100 % duty cycle is now feasible |
| Vacuum version | NA02 | Suitable for vacuums up to -0.98 bar |
| Increased purity and tightness requirements | NA03 | Wetted parts are specially cleaned and leak tested to $10^{-4}$ mbar x l/sec |
| Increased purity and tightness requirements and vacuum version | NA01 | Wetted parts are specially cleaned and leak tested up to $10^{-4}$ mbar x l/sec and suited for vacuum up to -0.98 bar |
| Coil with reduced power (5 W) | – | Devices have lower pressure range; with plastic versions 100 % duty cycle is now feasible |
| Cable plug | JHxx/JGxx/ JFxx | Cable plug is part of the delivery.<br>Cable plug versions (acc. to DIN EN 175301-803 Form A), see datasheet **Type 2518** ▶ and **Type 2509** ▶ |
| Approvals | PD01 | CSA General Purpose valve |
| | PD02 | UR (UL-recognized)/CSA approval |
| | PD07 | DNV-GL (formerly Germanischer Lloyd) |
| | PR05 | cFMus approved coil<br>Class I, Division 1, Groups A, B, C and D - T4<br>Class II, Division 1, Groups E, F and G - T4<br>Class III, Division 1 - T4<br>Class I, Zone 1, AEx mb IIC T4 Gb, Zone 21 AEx mb IIIC T130 C Db<br>Ex mb IIC T4 Gb; Ex mb IIIC T130 C Db |
| | PE95 | UL (UL-listed) approval |
| | PU15 | UL listed for Hazardous Locations for USA and Canada, Class I, Zone 1, AEx eb mb IIC T4; Zone 21, AEx mb tb IIIC T130 °C / Class I, Div 2, Group A,B,C,D; Class II+III, Div 2, Group F,G |
| | PX41 | EPS 16 ATEX 1111 X/IECEx EPS 16.0049X, 2G T4 IIC/2D T130 °C IIIC, Tamb -40 °C bis +60 °C, single and block mounting |
| Possible conformities (depending on the assembly) | – | EAC, drinking water, FDA |

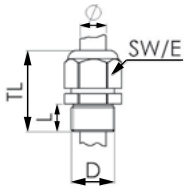
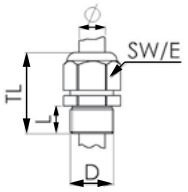
## 7.2. Accessories explosion proof version

| Option | Variable Code | Description |
|---|---|---|
| Oxygen versions | NL02 | Suitable for applications with oxygen (non-metal materials that are in contact with the medium, are tested and approved according to BAM) |
| Increased purity requirements e.g. oil, grease and silicone-free | NL50/NL05 | Wetted parts are specially cleaned and packaged in accordance with the valves |
| Increased hermetic requirements | PCxx | Standard units are tested at $10^{-2}$ mbar x l / sec; feasible up to $10^{-6}$ mbar |
| Vacuum version | NA02 | Suitable for vacuums up to -0.98 bar |
| Increased purity and hermetic requirements | NA03 | Wetted parts are specially cleaned and leak tested to $10^{-4}$ mbar x l/sec |
| Increased purity and hermetic requirements and vacuum version | NA01 | Wetted parts are specially cleaned and leak tested up to $10^{-4}$ mbar x l/sec and suited for vacuum up to -0.98 bar |
| Electrical feedback | CF15 | Coil with intrinsically safe proximity switches (PTB 00 ATEX 2048X) instead of manual override |

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## 7.3. Cable glands for ATEX/IECEx terminal box

**Note:**
A cable gland in polyamide version is included in the delivery. A nickel-plated brass version can be ordered at a surcharge, see "8.4. Ordering chart accessories" on page 17.

| Description | Ex approvals | | Dimensions | |
|---|---|---|---|---|
| | Certification | Identification | | |
| Ex cable gland,<br>Brass, nickel-plated, 6…13 mm<br> | PTB 04 ATEX 1112 X,<br>IECEx PTB 13.0027X | II 2 G Ex e IIC Gb,<br>II 2 D Ex tb IIIC Db IP68 |  | TL 29…37 mm<br>L 6 mm<br>D 20 mm<br>SW 24 mm<br>E 27 mm |
| Ex cable gland,<br>Polyamide, 7…13 mm<br> | PTB 13 ATEX 1015 X,<br>IECEx PTB 13.0034X | II 2 G Ex e IIC Gb,<br>II 2 D Ex tb IIIC Db IP68 |  | TL 36…45 mm<br>L 10 mm<br>D 20 mm<br>SW 24 mm<br>E 28 mm |

## 7.4. Special tool to turn the junction box

**Note:**
This special tool is not supplied with the valve (see "8.4. Ordering chart accessories" on page 17.

| Description | Components of the set |
|---|---|
| Set SC02-AC10<br> | • Special wrench<br>• Service manual |

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# 8. Ordering information

## 8.1. Bürkert eShop – Easy ordering and quick delivery



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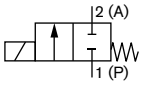
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## 8.3. Ordering chart

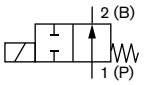
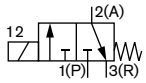
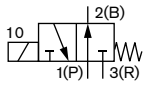
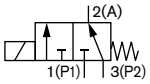
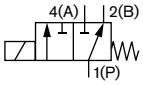
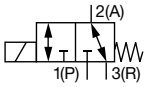
**Standard version**

**Note:**

- All devices with connection thread G ¼, manual override and cable plug **Type 2518** ▶.
- Further versions on request
- Products with reduced delivery time

| Circuit function | Orifice [mm] | Seal material | Housing or seat material | Article no. per voltage/frequency [V/Hz] | | |
|---|---|---|---|---|---|---|
| | | | | 024/DC | 024/50 | 230/50 |
| **A[1)], solenoid valve**<br>2/2 way<br>Direct-acting<br>Normally closed<br> | 3.0 | FKM | Brass | 020293 | 022883 | 124909 |
| | 3.0 | FKM | Stainless steel | 020292 | 023984 | 024563 |
| | 3.0 | FKM | PP | 018410 | 088496 | 045653 |
| | 3.0 | FKM | PVDF | 018188 | 020286 | 069006 |
| | 3.0 | NBR | Brass | 020294 | 086553 | 024902 |
| | 3.0 | EPDM | PP | 067214 | 022105 | 062398 |
| | 4.0 | FKM | Brass | 024019 | 025246 | 124912 |
| | 4.0 | FKM | Stainless steel | 018276 | 018857 | 020873 |
| | 4.0 | FKM | PP | 062695 | 043005 | 063116 |
| | 4.0 | FKM | PVDF | 023472 | 069079 | 087837 |
| | 4.0 | NBR | Brass | 025084 | – | 046007 |
| | 4.0 | EPDM | PP | 021660 | 067731 | 063118 |
| | 4.0 | EPDM | PVDF | 057573 | – | 125507 |
| | 5.0 | FKM | PP | 062624 | 067007 | 022619 |
| | 5.0 | FKM | PVDF | 064512 | – | 063786 |
| | 5.0 | EPDM | PP | 061321 | 054261 | 049969 |
| | 5.0 | EPDM | PVDF | 120184 | 059802 | 130117 |

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| Circuit function | Orifice [mm] | Seal material | Housing or seat material | Article no. per voltage/frequency [V/Hz] | | |
|---|---|---|---|---|---|---|
| | | | | 024/DC | 024/50 | 230/50 |
| **B[1.], solenoid valve**<br>2/2 way<br>Direct-acting<br>Normally opened<br> | 3.0 | FKM | Brass | 141917 | 130146 | 141919 |
| | 4.0 | FKM | Brass | 141920 | 141921 | 141923 |
| | 3.0 | FKM | Stainless steel | 141928 | 141929 | 141931 |
| | 4.0 | FKM | Stainless steel | 141932 | 141933 | 141935 |
| **C, solenoid valve**<br>3/2 way<br>Direct-acting<br>Normally closed<br> | 2.0 | NBR | Brass | 041103 | 042129 | 041105 |
| | 3.0 | NBR | Brass | 041107 | 041108 | 041116 |
| | 3.0 | FKM | Stainless steel | 052344 | 045024 | 052059 |
| | 4.0 | NBR | Brass | 042218 | 042695 | 042329 |
| | 4.0 | FKM | Stainless steel | 050483 | 043324 | 050979 |
| | 4.0 | FKM | PP | – | 088420 | – |
| | 4.0 | FKM | PVDF | 055788 | – | 019078 |
| | 4.0 | EPDM | PP | – | – | 063625 |
| **D, solenoid valve**<br>3/2 way<br>Direct-acting<br>Normally opened<br> | 2.0 | NBR | Brass | 056984 | 041858 | 041137 |
| | 3.0 | NBR | Brass | 041139 | 041141 | 041147 |
| | 4.0 | NBR | Brass | 043129 | 042696 | 042903 |
| **E, mixing valve (solenoid valve)**<br>3/2 way<br> | 3.0 | FKM | PP | 069917 | 066230 | 022294 |
| | 3.0 | EPDM | PP | 078556 | – | 078559 |
| | 4.0 | FKM | PP | 061077 | 086921 | 053406 |
| | 4.0 | FKM | PVDF | 022340 | 020550 | 085599 |
| | 4.0 | EPDM | PP | 067160 | 044693 | 066033 |
| **F, distribution valve (solenoid valve)**<br>3/2 way<br>Direct-acting<br> | 4.0 | FKM | PP | 020528 | – | – |
| | 4.0 | EPDM | PP | – | – | 066032 |
| **T, solenoid valve**<br>3/2 way<br>Direct-acting<br>Flow direction optional<br> | 2.0 | FKM | Brass | 124922 | 138316 | 124925 |
| | 3.0 | FKM | Brass | 124927 | 124928 | 124930 |
| | 2.0 | FKM | Stainless steel | 124932 | 124933 | 124935 |
| | 3.0 | FKM | Stainless steel | 124937 | 124938 | 124940 |

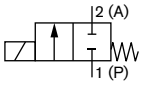
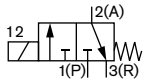
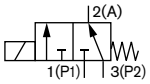
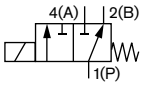
1.) The listed article no. and circuit functions have a housing with straight pass.

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### Explosion proof version

**Note:**

- All devices with connection thread G ¼ and manual override
- Further versions on request

| Circuit function | Orifice | Seal material | Housing or seat material | Electrical connection | Article no. per voltage/frequency [V/Hz] | |
|---|---|---|---|---|---|---|
| | [mm] | | | | 024/UC | 230/UC |
| **A[1.], solenoid valve**<br>2/2 way<br>Direct-acting<br>Normally closed<br> | 3.0 | NBR | Brass | Terminal box | 353707 | 353708 |
| | 3.0 | NBR | Brass | Cable | 353616 | 353617 |
| | 3.0 | FKM | Stainless steel | Terminal box | 353709 | 353710 |
| | 3.0 | FKM | Stainless steel | Cable | 353618 | 353619 |
| **C, solenoid valve**<br>3/2 way<br>Direct-acting<br>Normally closed<br> | 3.0 | NBR | Brass | Terminal box | 353594 | 353695 |
| | 3.0 | NBR | Brass | Cable | 353596 | 353599 |
| | 3.0 | FKM | Stainless steel | Terminal box | 353700 | 353706 |
| | 3.0 | FKM | Stainless steel | Cable | 353614 | 353615 |
| **E, mixing valve (solenoid valve)**<br>3/2 way<br> | 3.0 | FKM | Stainless steel | Terminal box | 353712 | 353702 |
| | 3.0 | FKM | Stainless steel | Cable | 353620 | 353621 |
| **F, distribution valve (solenoid valve)**<br>3/2 way<br>Direct-acting<br> | 3.0 | FKM | Stainless steel | Terminal box | 394337 | 353713 |
| | 3.0 | FKM | Stainless steel | Cable | 353622 | 353623 |
| | 4.0 | FKM | Stainless steel | Terminal box | 353697 | – |
| | 4.0 | FKM | Stainless steel | Cable | 353646 | – |

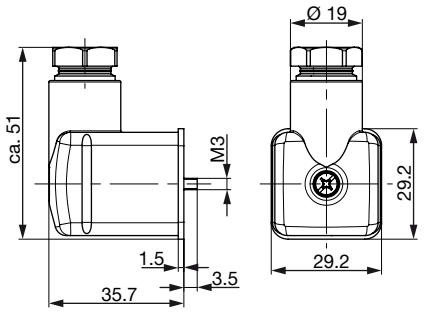
1.) The listed article no. and circuit functions have a housing with straight pass.

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## 8.4. Ordering chart accessories

### Cable plug Type 2518, Form A according to DIN EN 175301-803

**Note:**
Further versions see data sheet **Type 2518** ▶.

| Cable plug | Dimensions | Version | Voltage | Article no. |
|---|---|---|---|---|
|  |  | Without circuitry (AC/DC) | 0…250 V AC/DC | 314802 |
| | | With LED (AC/DC) | 12…24 V AC/DC | 314812 |
| | | With LED and varistor (AC/DC) | 12…24 V AC/DC | 314820 |
| | | With rectifier, LED and varistor | 12…24 V AC/DC | 314816 |

### Cable glands for ATEX/IECEx terminal box

**Note:**

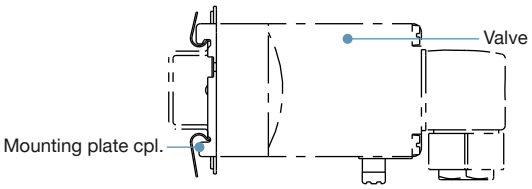
- A cable gland in polyamide version is included in the delivery. A nickel-plated brass version can be ordered at surcharge.
- For more information on Ex cable glands, see "7.3. Cable glands for ATEX/IECEx terminal box" on page 13.

| Description | Article no. |
|---|---|
| Ex cable gland, brass, nickel-plated, 6…13 mm[1.)] | 773278 |
| Ex cable gland, polyamide, 7…13 mm[1.)] | 773277 |
| Set SC02-AC10: Special wrench[2.)] incl. service manual | 293488 |

1.) Cable diameter

2.) Not included in the scope of delivery of the valve

### Mounting plate cpl. for DIN rail mounting

| Description | Article no. |
|---|---|
|  | 013253 |

### Locking ring

| Description | Article no. |
|---|---|
| Locking ring to prevent inadvertent manual actuation<br> | 013372 |

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