



Direct-acting 3/2-way plunger valve

- Direct-acting and compact small valve up to DN 1.6
- Slipped over coil system
- Banjo fitting for direct mounting on pneumatic valves
- Simple and fast push-in, flange or manifold mounting
- Explosion-proof variants

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

Type description

The 7012 valve is a direct-acting plunger valve. The stopper and the core guide tube are welded together to increase pressure resistance and leak-tightness. Various housing and seal material combinations are available depending on the actual application. A Bürkert-specific flange variant (SFB) enables the space-saving arrangement of valves on a multiple manifold. The range is supplemented by explosion-proof variants. Push-in fittings can be selected for a flexible hose connection. A banjo fitting with banjo bolt is the ideal solution for easy direct mounting on a pneumatic actuator. Optional manual override enables quick start-up and optimal maintenance. In combination with a plug to industry standard shape B or DIN EN 17301-803 shape C, the valves satisfy degree of protection IP65.

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1. General technical data

1.1. Standard and banjo version

| Product properties | |
|---|--|
| Dimensions | Further information can be found in chapter "5. Dimensions" on page 9. |
| Material | |
| Seal | FKM, EPDM |
| Body | Brass, polyamide (PA), stainless steel 1.4305/303 |
| Manual override | Optional, standard for Type 7012 banjo version |
| Weight | |
| Standard version 24.5 mm solenoid coil | 5 ¼ oz (with NPT ½) |
| Standard version 20 mm solenoid coil | 4 ¼ oz (with NPT ½) |
| Banjo version | 4 ¾ oz |
| Orifice | DN 1.2...DN 2.0 |
| Circuit function | C and D |
| Thermal insulation class of solenoid coil | Further information can be found in chapter "2. Circuit functions" on page 5. Epoxy coil class H |
| Performance data | |
| Nominal operating mode | |
| Single valve | Continuous operation 100 % ED resp. 50 % ED |
| For block mounting on multiple manifold | With 4 W/5 W solenoid coil 100 % ED (at max. 131 °F) |
| Switching time^{1.)} | |
| Standard version | Orifice 1.2...1.6 mm: opening 8...12 ms, closing 8...12 ms |
| Banjo version | Orifice 1.2 mm: opening 7...12 ms, closing 7...12 ms |
| Electrical data | |
| Operating voltage | 24 DC, 24 V/50 Hz, 24 V/60 Hz, 110 V/50 Hz, 120 V/60 Hz, 230 V/50 Hz, 240 V/60 Hz |
| Power consumption | Further information can be found in chapter "7. Performance specifications" on page 17. |
| Voltage tolerance | ± 10 % |
| Medium data | |
| Operating medium | Neutral gases and liquids (e.g. compressed air, water, hydraulic oil, technical vacuum) |
| Medium temperature | |
| Standard version | + 14 °F...+212 °F |
| Banjo version | + 14 °C...+140 °F |
| Viscosity | Max. 21 cSt |
| Process/Port connection & communication | |
| Electrical connection | <ul style="list-style-type: none"> • Acc. to DIN EN 175301 - 803 form C for cable plug Type 2516 • Acc. to industry standard form B for cable plug Type 2507 • Flat pin terminal as protection class III device • Flying leads connection on request for coil size 20 mm |
| Port connection | |
| Standard version | M5, G ½, NPT ½, Flange |
| Banjo version | G ½, G ¼, NPT ½, NPT ¼ and hose connector Ø 6 mm |
| Approvals and conformities | |
| Degree of protection | IP65 with cable plug |
| North America (USA/Canada) | Further information can be found in chapter "3.5. North America (USA/Canada)" on page 6. |
| Foods and beverages/Hygiene | Further information can be found in chapter "3.6. Foods and beverages/Hygiene" on page 6. |
| Environment and installation | |
| Installation position | As required, preferably with actuator upright |
| Ambient temperature | |
| Standard version | Max. + 131 °F resp. 167 °F (depending on power level) |
| Banjo version | + 14 °F...+ 131 °F resp. 167 °F (depending on power level) |

1.) Measurement at + 68 °F, 87 psi at the valve outlet acc. to DIN ISO 12238:2001, opening: pressure build-up 0...10 %, closing: pressure reduction 100...90 %

1.2. ATEX/IECEX cable version

| Product properties | |
|---|--|
| Material | |
| Seal | FKM, EPDM |
| Body | Brass, stainless steel 1.4305/303 |
| Circuit function | A and B Further information can be found in chapter "2. Circuit functions" on page 5. |
| Available coil size | SG3 (24.5 mm width) |
| Performance data | |
| Operating pressure | Up to 34 bar (depending on orifice and coil power) |
| Medium data | |
| Operating medium | Neutral gases and liquids (e.g. compressed air, water, hydraulic oil, technical vacuum) |
| Medium temperature ^{1.)} | |
| FKM | -10 °C...+100 °C |
| EPDM | -30 °C...+100 °C |
| Process/Port connection & communication | |
| Electrical connection | ATEX/IECEX cable version with 3 m moulded-in cable |
| Port connection | |
| Thread | G 1/8, NPT 1/8, RC1/8, M5, UNF 10-32 |
| Flange | Flange "FK01" |
| Approvals and conformities | |
| Degree of protection | IP65 with cable plug and ATEX/IECEX cable version |
| Explosion protection | Further information can be found in chapter "3.4. Explosion protection" on page 6. |
| Environment and installation | |
| Ambient temperature ^{1.)} | |
| FKM | -10 °C...+55 °C (max. +60 °C on request) |
| EPDM | -30 °C...+55 °C (max. +60 °C on request) |

1.) The minimum temperature depends on the seal material.

2. Circuit functions

| Symbol | Description |
|--------|---|
| | <p>Circuit function C (CF C) 3/2-way solenoid valve Direct-acting Normally closed</p> |
| | <p>Circuit function D (CF D) 3/2-way solenoid valve Direct-acting Normally open</p> |

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3. Approvals and conformities

3.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available versions can be supplied with the below mentioned approvals or conformities.

3.2. Conformity

In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

3.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

3.4. Explosion protection

| Approval | Description |
|----------|--|
| | <p>Optional: Explosion protection (valid for coils with fixed cable outlet)</p> <p>ATEX: EPS 21 ATEX 1 128 X II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db</p> <p>IECEX: IECEX EPS 21.0045X Ex mb IIC T4 Gb Ex mb IIIC T130 °C Db</p> <p>Fixed cable is halogen-free according to IEC 60754 - 1</p> |

3.5. North America (USA/Canada)

| Approval | Description |
|----------|---|
| | <p>Valid for coils:: UL Recognized for the USA and Canada</p> <p>The coils are UL Recognized for the USA and Canada according to:</p> <ul style="list-style-type: none"> • UL 429 (electrically operated valves) • CAN/CSA-C22.2 No. 139 |

3.6. Foods and beverages/Hygiene

| Conformity | Description |
|------------|---|
| FDA | <p>FDA – Code of Federal Regulations (valid for the variable code PL02, PL03)</p> <p>All wetted materials are compliant with the Code of Federal Regulations published by the FDA (Food and Drug Administration, USA) according to the manufacturer’s declaration.</p> |
| USP | <p>United States Pharmacopeial Convention (USP) (valid for the variable code PL04)</p> <p>All wetted materials are biocompatible according to the manufacturer’s declaration.</p> |
| | <p>EC Regulation 1935/2004 of the European Parliament and of the Council (valid for the variable code PL01, PL02)</p> <p>All wetted materials are compliant with EC Regulation 1935/2004/EC according to the manufacturer’s declaration.</p> |

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4. Materials

4.1. Bürkert resistApp



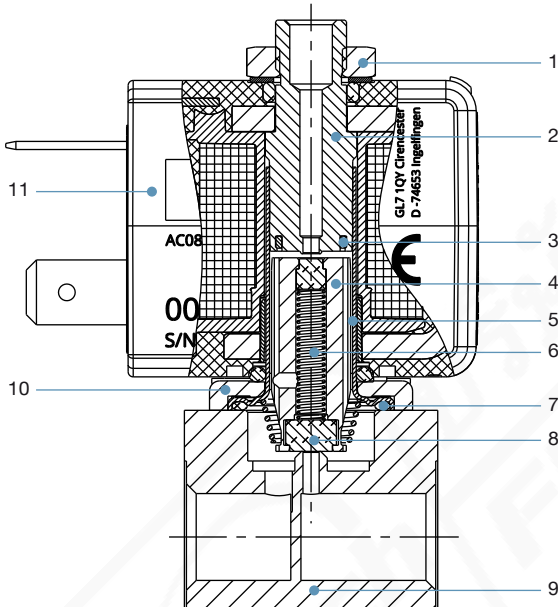
Bürkert resistApp – Chemical resistance chart

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](#)

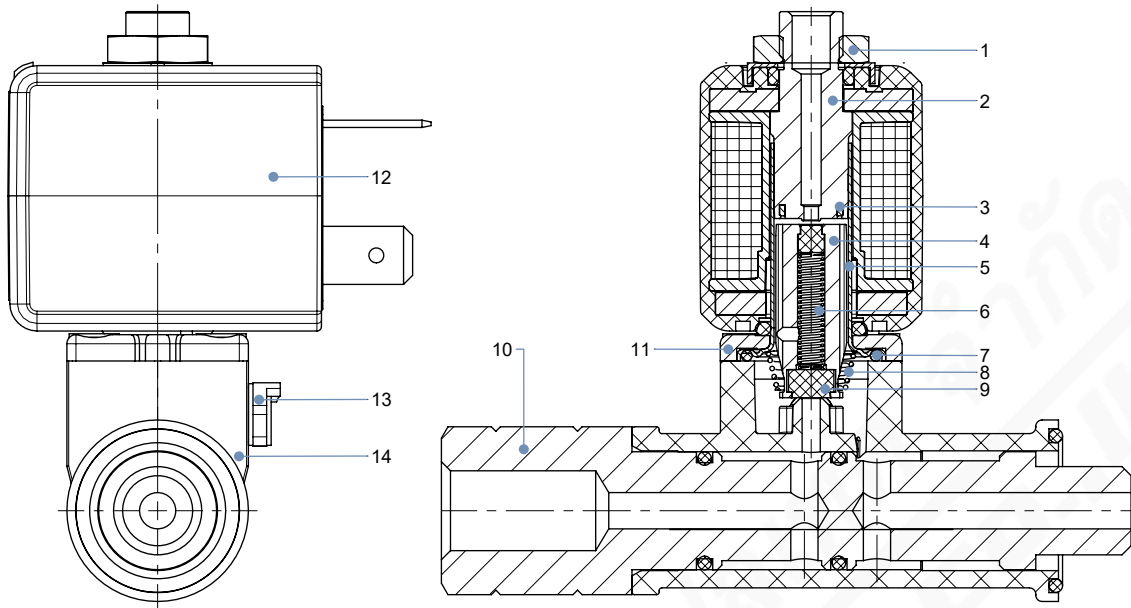
4.2. Material specifications

Standard version



| No. | Element | Material |
|-----|-----------------|--|
| 1 | Locknut | DIN 176 Surface finish thick film passivated KOSA0101 |
| 2 | Stopper | Stainless steel 1.4113/434 |
| 3 | Shading ring | Copper (silver optional) |
| 4 | Core | Stainless steel 1.4113/434 |
| 5 | Core guide tube | Stainless steel 1.4303/305L |
| 6 | Spring | Stainless steel 1.4310/301 |
| 7 | O-ring | FKM/EPDM |
| 8 | Seal | FKM/EPDM |
| 9 | Valve body | Brass, stainless steel 1.4305/303 PA (polyamide) |
| 10 | Flange | <ul style="list-style-type: none"> Surface finish thick film passivated KOSA0101 (brass version) Nickel-plated surface (stainless steel version) |
| 11 | Coil | Epoxy |

Banjo version



| No. | Element | Material |
|-----|-----------------|--|
| 1 | Locknut | DIN 176 Surface finish thick film passivated KOSA0101 |
| 2 | Stopper | Stainless steel 1.4113 |
| 3 | Shading ring | Copper (silver optional) |
| 4 | Core | Stainless steel 1.4113 |
| 5 | Core guide tube | Stainless steel 1.4303 ST |
| 6 | Spring | Stainless steel 1.4310 |
| 7 | O-ring | FKM |
| 8 | Spring | Stainless steel 1.4310 |
| 9 | Seal | FKM |
| 10 | Banjo bolt | Nickel-plated brass |
| 11 | Flange | <ul style="list-style-type: none"> • Surface finish thick film passivated KOSA0101 (brass version) • Nickel-plated surface (stainless steel version) |
| 12 | Coil | Epoxy |
| 13 | Manual override | Durethan |
| 14 | Body | PPS (polyphenylene sulphide) |

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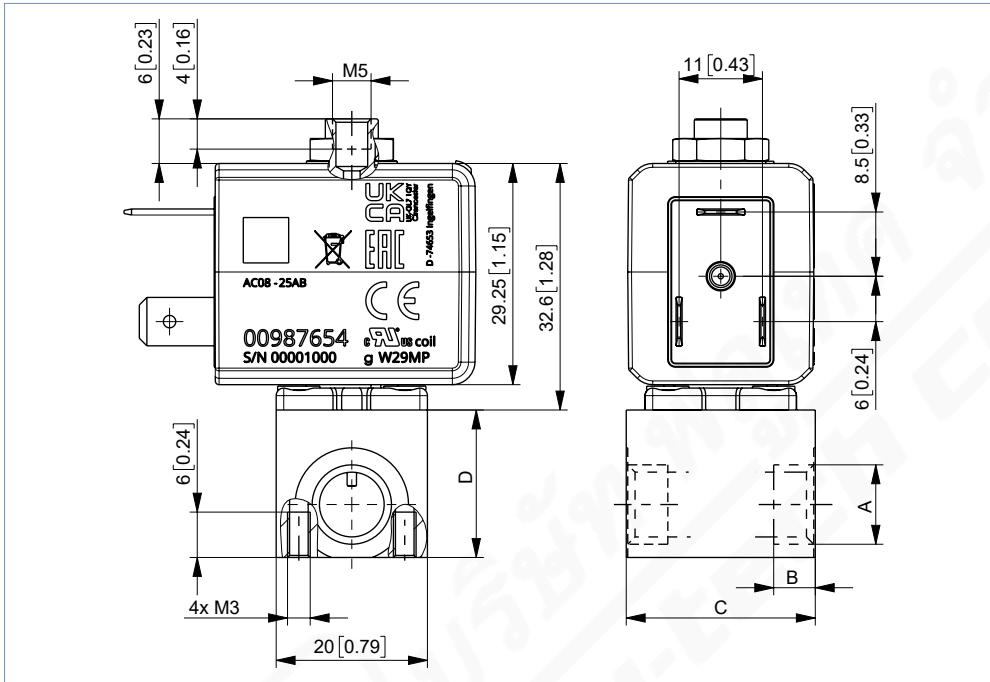
5. Dimensions

5.1. Standard version

Threaded version

Note:

- Dimensions in mm [inch]
- Versions according to industry standard form B

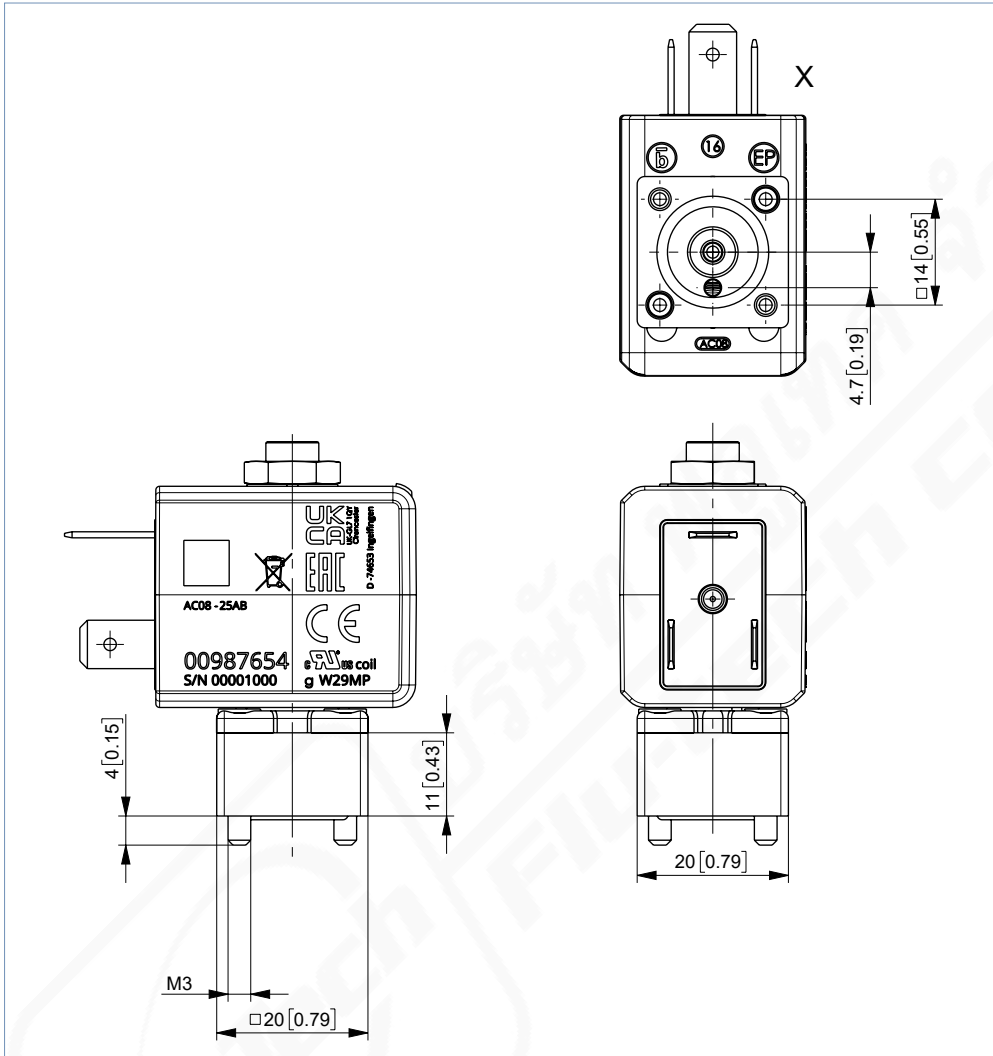


| Port connection | A | B | | C | | D | |
|-----------------|---------|------|------|------|------|------|------|
| | | [mm] | [in] | [mm] | [in] | [mm] | [in] |
| Thread | M5 | 5 | 0.19 | 20 | 0.78 | 14 | 0.55 |
| | G 1/8 | 8 | 0.31 | 25 | 0.98 | 19.5 | 0.74 |
| | NPT 1/8 | 7 | 0.31 | 25 | 0.98 | 19.5 | 0.74 |

Flange version

Note:

- Dimensions in mm [inch]
- Versions according to industry standard form B

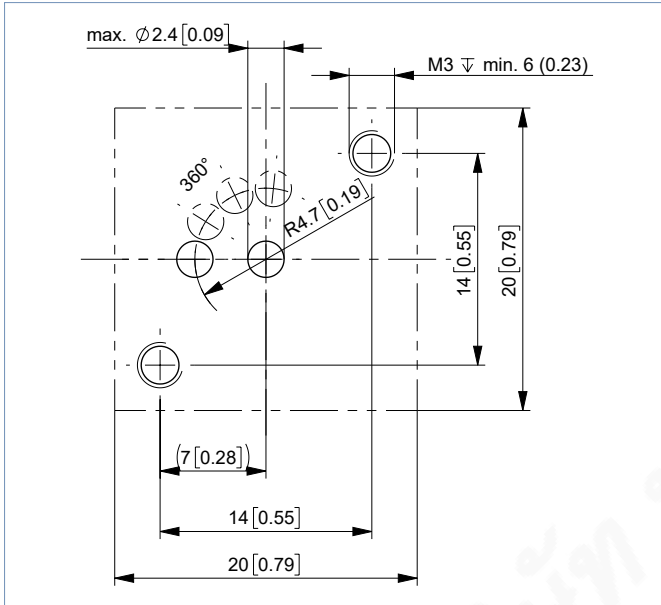


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Flange pattern

Note:

- Dimensions in mm [inch]
- On the connection side, the geometries are to be realised as shown in the following drawing.
- Flange version (FK01) according to FST 1000225877

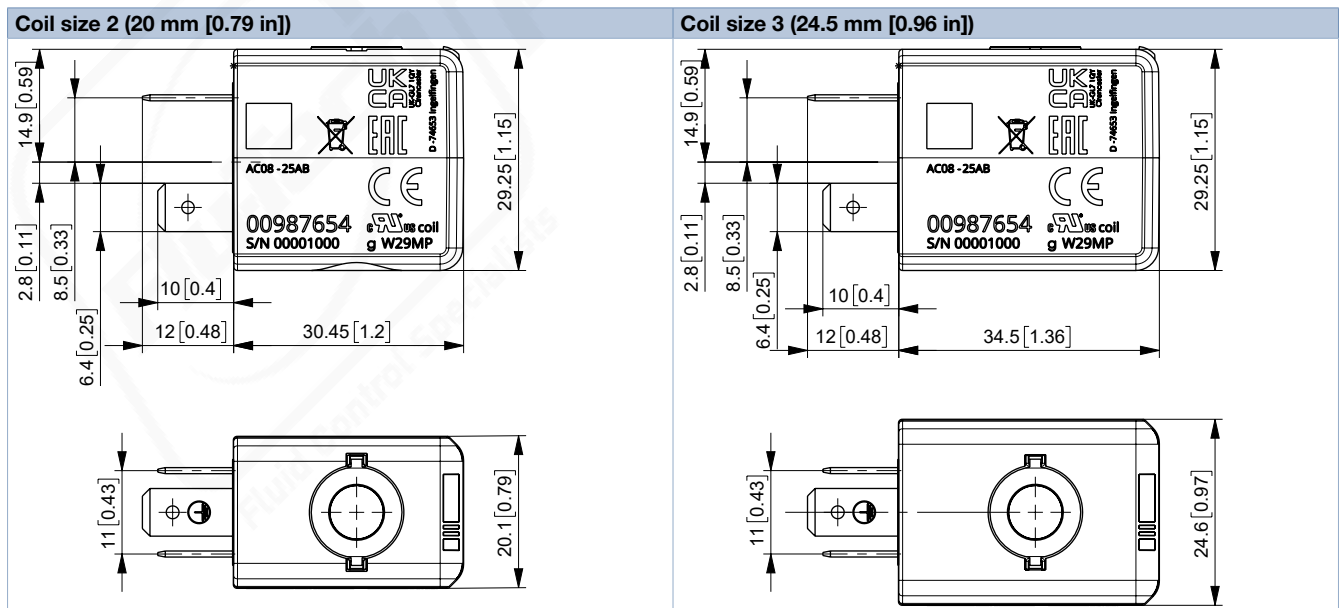


5.2. Coil versions

Versions according to industry standard form B

Note:

Dimensions in mm [inch]

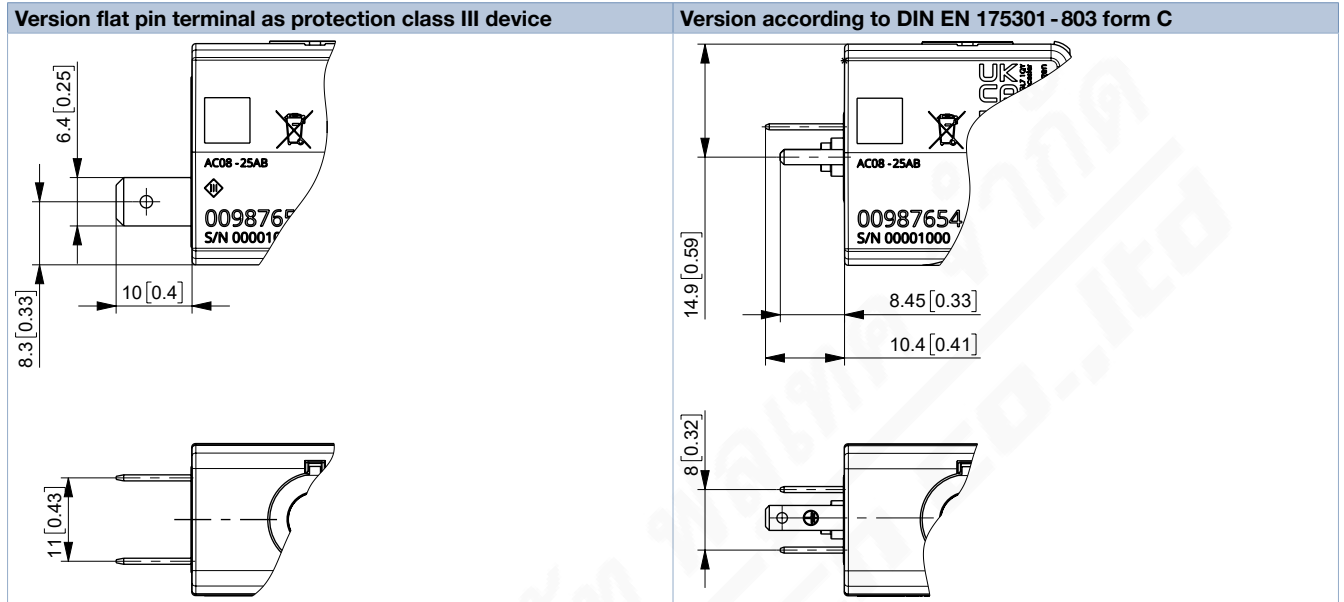


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Further electrical connections

Note:

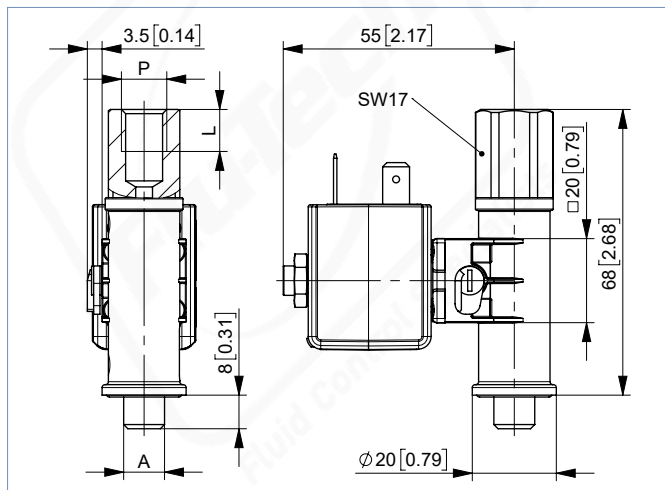
- Dimensions in mm [inch]
- Specifications apply to coil sizes 20 mm [0.79 in] and 24.5 mm [0.96 in]



5.3. Banjo version

Note:

- Dimensions in mm [inch]
- Coil size 24.5 mm [0.96 in]
- Plug connection for compressed air: Pressure port P can be continuously rotated through 360°.
- Available orifices: 1.6 mm and 2.0 mm



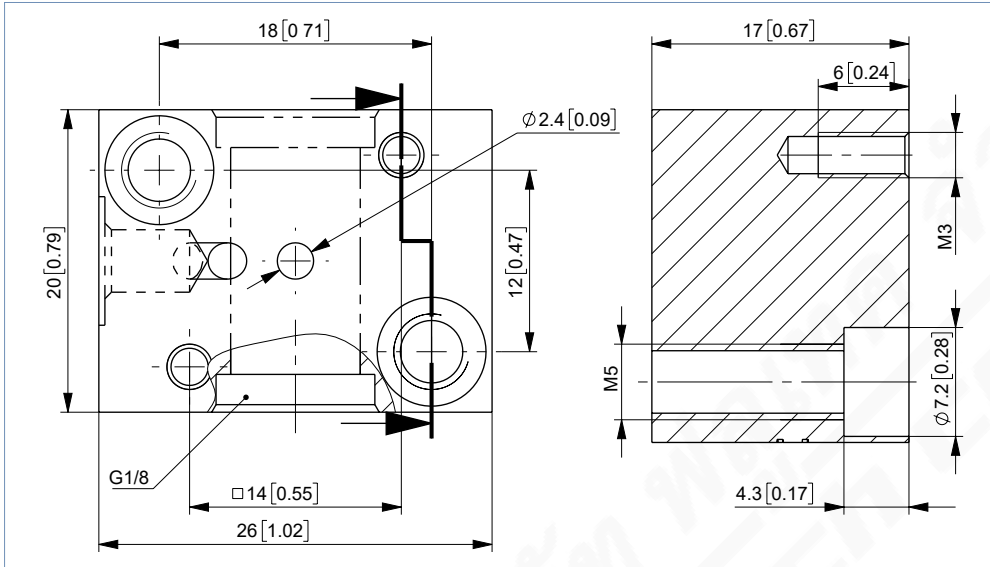
| Version | P [Zoll] | A [Zoll] | L [mm] | [inch] |
|---------|-------------|-------------|-----------|--------|
| BJ01 | G 1/8 | G 1/8 | 8 | 0.31 |
| BJ02 | G 1/4 | G 1/4 | 12 | 0.47 |
| BJ03 | NPT 1/4 | G 1/8 | 12.9 | 0.51 |
| BJ04 | NPT 1/4 | G 1/4 | 12.9 | 0.51 |
| BJ05 | G 1/4 | G 1/8 | 12 | 0.47 |
| BJ06 | G 1/8 | G 1/4 | 8 | 0.31 |
| BJ07 | NPT 1/8 | G 1/8 | 8.9 | 0.35 |

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5.4. Single manifold

Note:

- Dimensions in mm [inch]
- Can only be combined with valves with coil size 20 mm [0.79 in]
- Manifolds with valves of coil size 24.5 mm [0.96 in] on request



| Quantity of valve places | A | | B | | C | | Article no. |
|--------------------------|------|------|------|------|------|------|-------------|
| | [mm] | [in] | [mm] | [in] | [mm] | [in] | |
| 1 | 20 | 0.78 | 12 | 0.47 | - | - | 005312 𠄎 |

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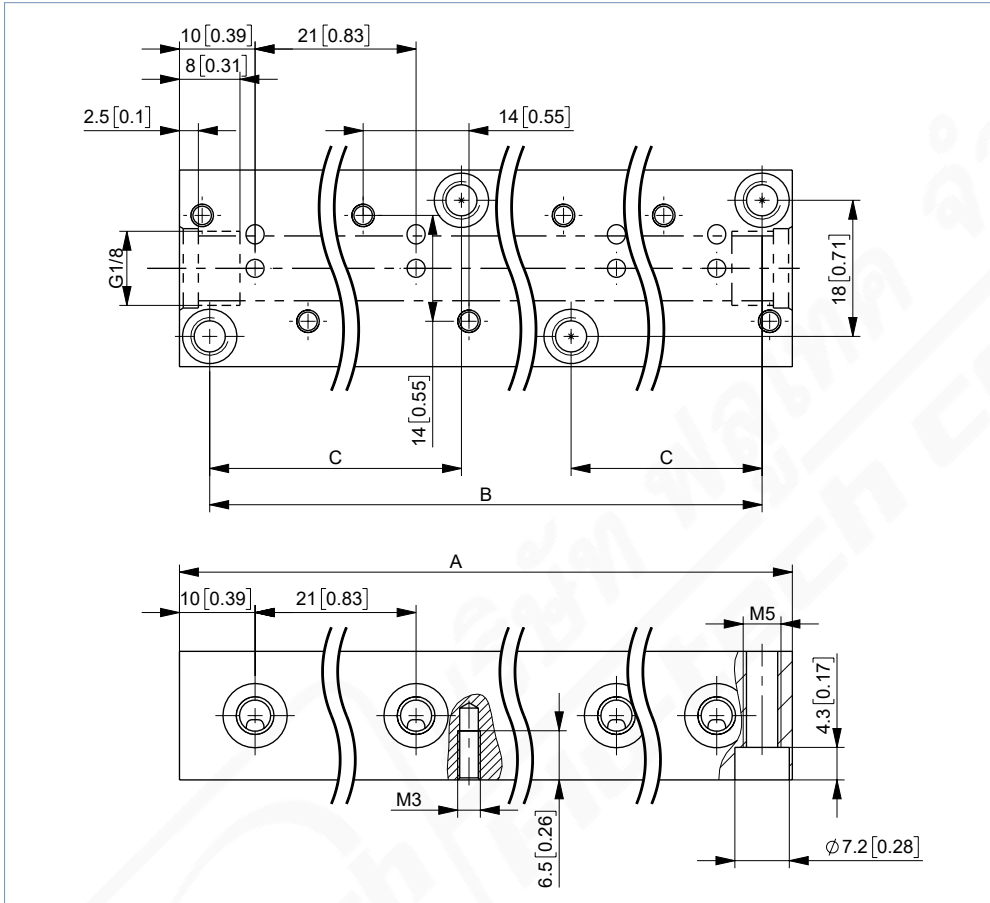


5.5. Multiple manifold

Manifolds for valves with 20 mm coil (SG2)

Note:

- Dimensions in mm [inch]
- Can only be combined with Type 7012 valves with coil size 20 mm [0.79 in]



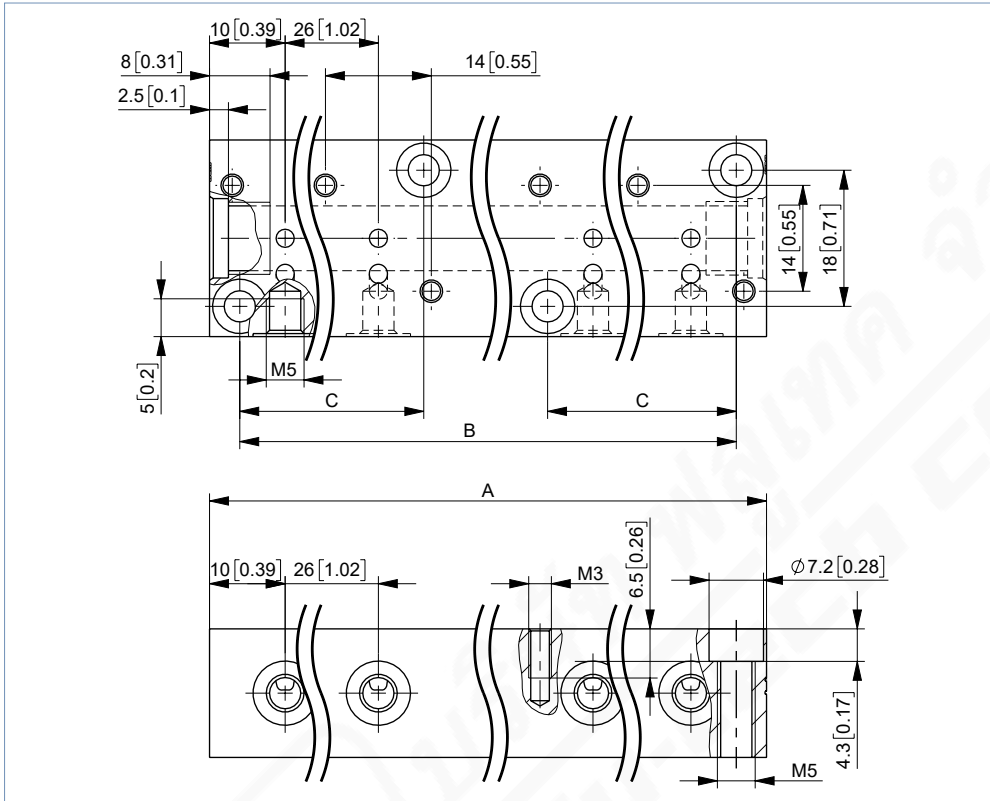
| Quantity of valve places | A | | B | | C | | Article no. |
|--------------------------|------|------|------|------|------|------|-------------|
| | [mm] | [in] | [mm] | [in] | [mm] | [in] | |
| 2 | 41 | 1.61 | 33 | 1.29 | - | - | 005355 |
| 3 | 62 | 2.44 | 54 | 2.12 | - | - | 005313 |
| 4 | 83 | 3.26 | 75 | 2.95 | - | - | 005314 |
| 5 | 104 | 4.09 | 96 | 3.77 | - | - | 005315 |
| 6 | 125 | 4.92 | 117 | 4.6 | - | - | 005316 |
| 7 | 146 | 5.74 | 138 | 5.43 | - | - | 005893 |
| 8 | 167 | 6.57 | 159 | 6.25 | 54 | 2.12 | 005166 |
| 9 | 188 | 7.4 | 180 | 7.08 | 54 | 2.12 | 005241 |
| 10 | 209 | 8.22 | 201 | 7.91 | 75 | 2.95 | 005819 |
| 11 | 230 | 9.05 | 222 | 8.74 | 75 | 2.95 | 005242 |
| 12 | 251 | 9.88 | 243 | 9.56 | 96 | 3.77 | 005222 |

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Manifolds for valves with 24.5 mm coil (SG3)

Note:

- Dimensions in mm
- Can only be combined with Type 7012 valves with coil size 24.5 mm [0.965 in]



| Quantity of valve places | A | | B | | C | | Article no. |
|--------------------------|------|-------|------|-------|------|------|-------------|
| | [mm] | [in] | [mm] | [in] | [mm] | [in] | |
| 2 | 46 | 1.81 | 38 | 1.49 | - | - | 60021427 |
| 3 | 72 | 2.83 | 64 | 2.51 | - | - | 60021342 |
| 4 | 98 | 3.85 | 90 | 3.54 | - | - | 60021429 |
| 5 | 124 | 4.88 | 116 | 4.56 | - | - | 60021428 |
| 6 | 150 | 5.9 | 142 | 5.59 | - | - | 60021442 |
| 7 | 176 | 6.92 | 168 | 6.61 | - | - | 20060327 |
| 8 | 202 | 7.95 | 194 | 7.63 | 64 | 2.51 | 20060338 |
| 9 | 228 | 8.97 | 220 | 8.66 | 64 | 2.51 | 20060341 |
| 10 | 254 | 10 | 246 | 9.67 | 90 | 3.54 | 20015744 |
| 11 | 280 | 11.02 | 272 | 10.7 | 90 | 3.54 | 20060374 |
| 12 | 306 | 12.04 | 298 | 11.73 | 116 | 4.56 | 20060376 |

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6. Device/Process connections

6.1. Pin assignment

For the positions marked with *, ** or *** in the drawing, the connections are marked with the letters shown in the table above, depending on the circuit function. Unused connections in circuit functions A or B will be closed off with a blanking plug or cap nut.

| Circuit function | Connection Type | | | Threaded version | Flange version |
|------------------|-----------------|---------|-----|------------------|----------------|
| | * | ** | *** | | |
| A | P | to lock | A | | |
| B | to lock | B | P | | |
| C | P | R | A | | |
| D | R | P | B | | |
| T | P | R | A | | |

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7. Performance specifications

7.1. Power consumption

Standard version, coil size 24.5 mm [0.96 in]

| Coil | Orifice [mm] | Electrical power | | | | | Switching times ^{1.)} | | | |
|-----------------|-----------------|-------------------|---------|-----|----------|---------|--------------------------------|-----------------|--|--|
| | | Inrush AC [VA] | Hold AC | | DC | | Opening [ms] | Closing [ms] | | |
| | | | [VA] | [W] | Cold [W] | Hot [W] | | | | |
| 24 V/DC/7 W | 1.2 | – | – | – | 7 | 5.5 | 8...12 | 8...12 | | |
| | 1.6 | | | | | | | | | |
| | 2.0 | | | | | | | | | |
| 24 V/DC/5.5 W | 1.2 | – | – | – | 5.5 | 4.5 | | | | |
| | 1.6 | | | | | | | | | |
| | 2.0 | | | | | | | | | |
| 24 V/50 Hz/4 W | 1.2 | 12 | 6.5 | 4 | – | – | | | | |
| | 1.6 | | | | | | | | | |
| | 2.0 | | | | | | | | | |
| 230 V/50 Hz/4 W | 1.2 | 12 | 6.5 | 4 | – | – | | | | |
| | 1.6 | | | | | | | | | |
| | 2.0 | | | | | | | | | |

1.) Measurement at +68 °F, 87 psi^{2.)} at the valve outlet acc. to DIN ISO 12238:2001, opening: pressure build-up 0...10 %, closing: pressure reduction 100...90 %
 2.) Pressure data: overpressure to atmospheric pressure and air as a medium

Standard version, coil size 20 mm [0.79 in]

| Coil | Orifice [mm] | Electrical power | | | | | Switching times ^{1.)} | | | |
|-----------------|-----------------|-------------------|---------|-----|----------|---------|--------------------------------|-----------------|--|--|
| | | Inrush AC [VA] | Hold AC | | DC | | Opening [ms] | Closing [ms] | | |
| | | | [VA] | [W] | Cold [W] | Hot [W] | | | | |
| 24 V/DC/6.5 W | 1.2 | – | – | – | 6.5 | 5 | 8...12 | 8...12 | | |
| | 1.6 | | | | | | | | | |
| | 2.0 | | | | | | | | | |
| 24 V/50 Hz/6 W | 1.2 | 11 | 7 | 6 | – | – | | | | |
| | 1.6 | | | | | | | | | |
| | 2.0 | | | | | | | | | |
| 230 V/50 Hz/6 W | 1.2 | 11 | 7 | 6 | – | – | | | | |
| | 1.6 | | | | | | | | | |
| | 2.0 | | | | | | | | | |
| 24 V/DC/5 W | 1.2 | – | – | – | 5 | 4 | | | | |
| | 1.6 | | | | | | | | | |
| | 2.0 | | | | | | | | | |
| 24 V/50 Hz/4 W | 1.2 | 9 | 5 | 4 | – | – | | | | |
| | 1.6 | | | | | | | | | |
| | 2.0 | | | | | | | | | |
| 230 V/50 Hz/4 W | 1.2 | 9 | 5 | 4 | – | – | | | | |
| | 1.6 | | | | | | | | | |
| | 2.0 | | | | | | | | | |

1.) Measurement at +68 °F, 87 psi^{2.)} at the valve outlet acc. to DIN ISO 12238:2001, opening: pressure build-up 0...10 %, closing: pressure reduction 100...90 %
 2.) Pressure data: overpressure to atmospheric pressure and air as a medium

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8. Ordering information

8.1. Bürkert eShop



Bürkert eShop – Easy ordering and quick delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

[Order online now](#)

8.2. Bürkert product filter

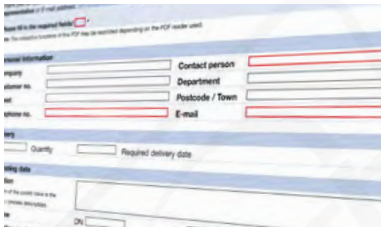


Bürkert product filter – Get quickly to the right product

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8.3. Bürkert Product Enquiry Form



Bürkert Product Enquiry Form – Your enquiry quickly and compactly

Would you like to make a specific product enquiry based on your technical requirements? Use our Product Enquiry Form for this purpose. There you will find all the relevant information for your Bürkert contact. This will enable us to provide you with the best possible advice.

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8.4. Ordering chart

Standard version according to industry standard form B, coil size 24.5 mm [0.96 in], coil UL Recognized (cURus)

Note:

All valves are delivered without a cable plug.

| Circuit function | Port connection | Orifice | C _v value water ¹⁾ | Voltage/ Frequency/ Power | Maximum duty cycle | Pressure range ²⁾³⁾ (MAWP ⁴⁾) | | Article no. | |
|---|-----------------|-------------------|--|---------------------------------|-----------------------|--|----------------------------|---------------------|----------------------|
| | | | | | | Ambient temperature 167 °F | Ambient temperature 131 °F | Brass body | Stainless steel body |
| | | Air + water | Air + water | FKM seal | | | | | |
| | | [mm] | [gal/min] | [V/Hz/W] | | [psi] | [psi] | | |
| CF C 3/2-way solenoid valve Direct-acting Normally closed | NPT 1/8 | 1.2 | 0.05 | 24/DC/7 | 100 % ED | - | 0...189 | o. r. | o. r. |
| | | | | 24/DC/5.5 | | 0...167 | 0...167 | o. r. | o. r. |
| | | | | 24/60/4 | | 0...189 | 0...189 | o. r. | o. r. |
| | | | | 120/60/4 | | 0...189 | 0...189 | o. r. | o. r. |
| | | | | 240/60/4 | | 0...189 | 0...189 | o. r. | o. r. |
| | | 1.6 | 0.07 | 24/DC/7 | 100 % ED | - | 0...109 | o. r. | o. r. |
| | | | | 24/DC/5.5 | | 0...87 | 0...87 | o. r. | o. r. |
| | | | | 24/60/4 | | 0...109 | 0...109 | o. r. | o. r. |
| | | | | 120/60/4 | | 0...109 | 0...109 | o. r. | o. r. |
| | | | | 240/60/4 | | 0...109 | 0...109 | o. r. | o. r. |
| | | 2.0 ⁵⁾ | 0.13 | 24/DC/7 | 100 % ED | - | 0...102 | o. r. | o. r. |
| | | | | 24/DC/5.5 | | 0...73 | 0...73 | o. r. | o. r. |
| | 24/60/4 | | | 0...87 | | 0...87 | o. r. | o. r. | |
| | 120/60/4 | | | 0...87 | | 0...87 | o. r. | o. r. | |
| | 240/60/4 | | | 0...87 | | 0...87 | o. r. | o. r. | |
| | Manifold (FK01) | 1.2 | 0.05 | 100 % ED | 24/DC/7 | - | 0...189 | 379906 𠄎 | 380132 𠄎 |
| | | | | | 24/DC/5.5 | 0...167 | 0...167 | 390269 𠄎 | 390271 𠄎 |
| | | | | | 24/60/4 | 0...189 | 0...189 | o. r. | o. r. |
| | | | | | 120/60/4 | 0...189 | 0...189 | o. r. | o. r. |
| | | | | | 240/60/4 | 0...189 | 0...189 | o. r. | o. r. |
| | | 1.6 | 0.07 | 100 % ED | 24/DC/7 | - | 0...109 | 379915 𠄎 | 380137 𠄎 |
| | | | | | 24/DC/5.5 | 0...87 | 0...87 | 390275 𠄎 | 390273 𠄎 |
| | | | | | 24/60/4 | 0...109 | 0...109 | o. r. | o. r. |
| | | | | | 120/60/4 | 0...109 | 0...109 | o. r. | o. r. |
| 240/60/4 | | | | | 0...109 | 0...109 | o. r. | o. r. | |
| 2.0 ⁵⁾ | | 0.13 | 100 % ED | 24/DC/7 | - | 0...102 | o. r. | o. r. | |
| | | | | 24/DC/5.5 | 0...73 | 0...73 | o. r. | o. r. | |
| | 24/60/4 | | | 0...87 | 0...87 | o. r. | o. r. | | |
| | 120/60/4 | | | 0...87 | 0...87 | o. r. | o. r. | | |
| | 240/60/4 | | | 0...87 | 0...87 | o. r. | o. r. | | |
| CF D 3/2-way solenoid valve Direct-acting Normally open | NPT 1/8 | 1.2 | 0.05 | 24/DC/5.5 | 100 % ED | 0...145 | 0...145 | o. r. | o. r. |
| | | | | 24/60/4 | | 0...145 | 0...145 | o. r. | o. r. |
| | | | | 120/60/4 | | 0...145 | 0...145 | o. r. | o. r. |
| | | | | 240/60/4 | | 0...145 | 0...145 | o. r. | o. r. |
| | | | | 1.6 | | 0.07 | 24/DC/5.5 | 100 % ED | 0...87 |
| | | 24/60/4 | 0...87 | | 0...87 | | o. r. | | o. r. |
| | | 120/60/4 | 0...87 | | 0...87 | | o. r. | | o. r. |
| | | 240/60/4 | 0...87 | | 0...87 | | o. r. | | o. r. |
| | | 2.0 ⁵⁾ | 0.13 | | 24/DC/5.5 | | 100 % ED | | 0...116 |
| | | | | 24/60/4 | 0...102 | 0...102 | | o. r. ⁶⁾ | o. r. ⁶⁾ |
| | | | | 120/60/4 | 0...102 | 0...102 | | o. r. ⁶⁾ | o. r. ⁶⁾ |
| | | | | 240/60/4 | 0...102 | 0...102 | | o. r. ⁶⁾ | o. r. ⁶⁾ |
| 240/60/4 | 0...102 | | | 0...102 | o. r. ⁶⁾ | o. r. ⁶⁾ | | | |

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| Circuit function | Port connection | Orifice | C _v value water ^{1.)} | Voltage/ Frequency/ Power | Maximum duty cycle | Pressure range ²⁾³⁾ (MAWP ⁴⁾) | | Article no. | |
|---|-----------------|--------------------|---|---------------------------------|--------------------|--|----------------------------|----------------------|----------------------|
| | | | | | | Ambient temperature 167 °F | Ambient temperature 131 °F | Brass body | Stainless steel body |
| | | Air + water | Air + water | FKM seal | | | | | |
| | | [mm] | [gal/min] | [V/Hz/W] | | [psi] | [psi] | | |
| CF D 3/2-way solenoid valve Direct-acting Normally open | Manifold (FK01) | 1.2 | 0.05 | 24/DC/5.5 | 100 % ED | 0...145 | 0...145 | 390450 ☞ | 390452 ☞ |
| | | | | 24/60/4 | | 0...145 | 0...145 | o. r. | o. r. |
| | | | | 120/60/4 | | 0...145 | 0...145 | o. r. | o. r. |
| | | | | 240/60/4 | | 0...145 | 0...145 | o. r. | o. r. |
| | | 1.6 | 0.07 | 24/DC/5.5 | 100 % ED | 0...87 | 0...87 | 390462 ☞ | 390464 ☞ |
| | | | | 24/60/4 | | 0...87 | 0...87 | o. r. | o. r. |
| | | | | 120/60/4 | | 0...87 | 0...87 | o. r. | o. r. |
| | | | | 240/60/4 | | 0...87 | 0...87 | o. r. | o. r. |
| | | 2.0 ^{5.)} | 0.13 | 24/DC/5.5 | 100 % ED | 0...116 | 0...116 | o. r. | o. r. |
| | | | | 24/60/4 | | 0...102 | 0...102 | o. r. ^{6.)} | o. r. ^{6.)} |
| | | | | 120/60/4 | | 0...102 | 0...102 | o. r. ^{6.)} | o. r. ^{6.)} |
| | | | | 240/60/4 | | 0...102 | 0...102 | o. r. ^{6.)} | o. r. ^{6.)} |

o. r.: on request

- 1.) Measurement at +68 °F, 14.5²⁾ bar at the valve inlet and free outlet
- 2.) Pressure data: overpressure to atmospheric pressure and air as a medium
- 3.) Number of switching cycles under laboratory conditions (FKM seal, oiled air, unpressurised, DC): 5 million. Please note that an increase in switching pressure can limit the life of the seat seal.
- 4.) Maximum allowable working pressure
- 5.) Limited swelling compensation
- 6.) Can also be feasible with coil size 2

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Standard version according to industry standard form B, coil size 20 mm [0.79 in], coil UL Recognized (cURus)

Note:

All valves are delivered without a cable plug.

| Circuit function | Port connection | Orifice | C _v value water ¹⁾ | Voltage/ Frequency/ Power | Maximum duty cycle | Pressure range ²⁾³⁾ (MAWP ⁴⁾) | | Article no. | | | | | |
|---|-----------------|-------------------|--|---------------------------------|-----------------------|--|----------------------------|-------------|----------------------|---------|---------|-------|-------|
| | | | | | | Ambient temperature 167 °F | Ambient temperature 131 °F | Brass body | Stainless steel body | | | | |
| | | | | | | Air + water | Air + water | FKM seal | | | | | |
| | | [mm] | [gal/min] | [V/Hz/W] | | [psi] | [psi] | | | | | | |
| CF C 3/2-way solenoid valve Direct-acting Normally closed | NPT 1/8 | 1.2 | 0.05 | 24/DC/6.5 | 100 % ED | – | 0...160 | o. r. | o. r. | | | | |
| | | | | 24/60/6 | | – | 0...189 | o. r. | o. r. | | | | |
| | | | | 120/60/6 | | – | 0...189 | o. r. | o. r. | | | | |
| | | | | 240/60/6 | | – | 0...189 | o. r. | o. r. | | | | |
| | | | | 24/DC/5 | | 0...145 | 0...145 | o. r. | o. r. | | | | |
| | | | | 24/60/4 | | 0...160 | 0...160 | o. r. | o. r. | | | | |
| | | | | 120/60/4 | | 0...160 | 0...160 | o. r. | o. r. | | | | |
| | | | | 240/60/4 | | 0...160 | 0...160 | o. r. | o. r. | | | | |
| | | | | 1.6 | | 0.07 | 24/DC/6.5 | 100 % ED | – | 0...87 | o. r. | o. r. | |
| | | | | | | | 24/60/6 | | – | 0...109 | o. r. | o. r. | |
| | | | | | | | 120/60/6 | | – | 0...109 | o. r. | o. r. | |
| | | | | | | | 240/60/6 | | – | 0...109 | o. r. | o. r. | |
| | | 24/DC/5 | 0...80 | | 0...80 | | o. r. | | o. r. | | | | |
| | | 24/60/4 | 0...87 | | 0...87 | | o. r. | | o. r. | | | | |
| | | 120/60/4 | 0...87 | | 0...87 | | o. r. | | o. r. | | | | |
| | | 240/60/4 | 0...87 | | 0...87 | | o. r. | | o. r. | | | | |
| | | 2.0 ⁵⁾ | 0.13 | | 24/DC/6.5 | | 100 % ED | | – | 0...73 | o. r. | o. r. | |
| | | | | | 24/60/6 | | | | – | 0...87 | o. r. | o. r. | |
| | | | | | 120/60/6 | | | | – | 0...87 | o. r. | o. r. | |
| | | | | | 240/60/6 | | | | – | 0...87 | o. r. | o. r. | |
| | | | | 24/DC/5 | 0...58 | 0...58 | | o. r. | o. r. | | | | |
| | | | | 24/60/4 | 0...80 | 0...80 | | o. r. | o. r. | | | | |
| | | | | 120/60/4 | 0...80 | 0...80 | | o. r. | o. r. | | | | |
| | | | | 240/60/4 | 0...80 | 0...80 | | o. r. | o. r. | | | | |
| | | | | Manifold (FK01) | 1.2 | 0.05 | | 100 % ED | 24/DC/6.5 | – | 0...160 | o. r. | o. r. |
| | | | | | | | | | 24/60/6 | – | 0...189 | o. r. | o. r. |
| | | | | | | | | | 120/60/6 | – | 0...189 | o. r. | o. r. |
| | | | | | | | | | 240/60/6 | – | 0...189 | o. r. | o. r. |
| | | 24/DC/5 | 0...145 | | | | 0...145 | | o. r. | o. r. | | | |
| | | 24/60/4 | 0...160 | | | | 0...160 | | o. r. | o. r. | | | |
| | | 120/60/4 | 0...160 | | | | 0...160 | | o. r. | o. r. | | | |
| | | 240/60/4 | 0...160 | | | | 0...160 | | o. r. | o. r. | | | |
| | | 1.6 | 0.07 | | | | 100 % ED | | 24/DC/6.5 | – | 0...87 | o. r. | o. r. |
| | | | | | | | | | 24/60/6 | – | 0...109 | o. r. | o. r. |
| | | | | | | | | | 120/60/6 | – | 0...109 | o. r. | o. r. |
| | | | | | | | | | 240/60/6 | – | 0...109 | o. r. | o. r. |
| 24/DC/5 | 0...80 | | | 0...80 | o. r. | o. r. | | | | | | | |
| 24/60/4 | 0...87 | | | 0...87 | o. r. | o. r. | | | | | | | |
| 120/60/4 | 0...87 | | | 0...87 | o. r. | o. r. | | | | | | | |
| 240/60/4 | 0...87 | | | 0...87 | o. r. | o. r. | | | | | | | |
| 2.0 ⁵⁾ | 0.13 | | | 100 % ED | 24/DC/6.5 | – | | 0...73 | o. r. | o. r. | | | |
| | | | | | 24/60/6 | – | | 0...87 | o. r. | o. r. | | | |
| | | | | | 120/60/6 | – | | 0...87 | o. r. | o. r. | | | |
| | | | | | 240/60/6 | – | | 0...87 | o. r. | o. r. | | | |
| | | 24/DC/5 | 0...58 | | 0...58 | o. r. | o. r. | | | | | | |
| | | 24/60/4 | 0...80 | | 0...80 | o. r. | o. r. | | | | | | |
| | | 120/60/4 | 0...80 | | 0...80 | o. r. | o. r. | | | | | | |
| | | 240/60/4 | 0...80 | | 0...80 | o. r. | o. r. | | | | | | |

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| Circuit function | Port connection | Orifice | C _v value water ^{1.)} | Voltage/ Frequency/ Power | Maximum duty cycle | Pressure range ²⁾³⁾ (MAWP ⁴⁾) | | Article no. | |
|---|-----------------|--------------------|---|---------------------------------|--------------------|--|----------------------------|-------------|----------------------|
| | | | | | | Ambient temperature 167 °F | Ambient temperature 131 °F | Brass body | Stainless steel body |
| | | Air + water | Air + water | FKM seal | | | | | |
| | | [mm] | [gal/min] | [V/Hz/W] | | [psi] | [psi] | | |
| CF D 3/2-way solenoid valve Direct-acting Normally open | NPT 1/8 | 1.2 | 0.05 | 24/DC/5 | 100 % ED | 0...145 | 0...145 | o. r. | o. r. |
| | | | | 24/60/4 | | 0...145 | 0...145 | o. r. | o. r. |
| | | | | 120/60/4 | | 0...145 | 0...145 | o. r. | o. r. |
| | | | | 240/60/4 | | 0...145 | 0...145 | o. r. | o. r. |
| | | 1.6 | 0.07 | 24/DC/5 | 100 % ED | 0...87 | 0...87 | o. r. | o. r. |
| | | | | 24/60/4 | | 0...87 | 0...87 | o. r. | o. r. |
| | | | | 120/60/4 | | 0...87 | 0...87 | o. r. | o. r. |
| | | | | 240/60/4 | | 0...87 | 0...87 | o. r. | o. r. |
| | | 2.0 ^{5.)} | 0.13 | 24/DC/6.5 | 100 % ED | – | 0...116 | o. r. | o. r. |
| | | | | 24/DC/5 | | 0...87 | 0...87 | o. r. | o. r. |
| | | | | 24/60/4 | | 0...102 | 0...102 | o. r. | o. r. |
| | | | | 120/60/4 | | 0...102 | 0...102 | o. r. | o. r. |
| | Manifold (FK01) | 1.2 | 0.05 | 100 % ED | 24/DC/5 | 0...87 | 0...87 | o. r. | o. r. |
| | | | | | 24/DC/5.5 | 0...6 | 0...6 | o. r. | o. r. |
| | | | | | 24/60/4 | 0...87 | 0...87 | o. r. | o. r. |
| | | | | | 120/60/4 | 0...87 | 0...87 | o. r. | o. r. |
| | | 1.6 | 0.07 | 100 % ED | 24/DC/5 | 0...87 | 0...87 | o. r. | o. r. |
| | | | | | 24/60/4 | 0...87 | 0...87 | o. r. | o. r. |
| | | | | | 120/60/4 | 0...87 | 0...87 | o. r. | o. r. |
| | | | | | 240/60/4 | 0...87 | 0...87 | o. r. | o. r. |
| 2.0 ^{5.)} | | 0.13 | 100 % ED | 24/DC/6.5 | – | 0...116 | o. r. | o. r. | |
| | | | | 24/DC/5 | 0...87 | 0...87 | o. r. | o. r. | |
| | | | | 24/60/4 | 0...102 | 0...102 | o. r. | o. r. | |
| | | | | 120/60/4 | 0...102 | 0...102 | o. r. | o. r. | |
| 240/60/4 | | 0.13 | 100 % ED | 24/DC/6.5 | – | 0...116 | o. r. | o. r. | |
| | | | | 24/DC/5 | 0...87 | 0...87 | o. r. | o. r. | |
| | | | | 24/60/4 | 0...102 | 0...102 | o. r. | o. r. | |
| | | | | 120/60/4 | 0...102 | 0...102 | o. r. | o. r. | |

o. r.: on request

- 1.) Measurement at +68 °F, 14.5²⁾ bar at the valve inlet and free outlet
- 2.) Pressure data: overpressure to atmospheric pressure and air as a medium
- 3.) Number of switching cycles under laboratory conditions (FKM seal, oiled air, unpressurised, DC): 5 million. Please note that an increase in switching pressure can limit the life of the seat seal.
- 4.) Maximum allowable working pressure
- 5.) Limited swelling compensation

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Banjo version, coil UL Recognized (cURus)

Note:

- All valves are delivered without a cable plug.
- Coil size 24,5 mm [0.96 in]
- Orifices 1.6 mm and 2.0 mm on request.

| Circuit function | Port connection | Orifice | Q _{Nn} value air | Voltage/Frequency/ Power | Maximum duty cycle | Medium pressure ¹⁾²⁾ (MAWP ³⁾) | Article no. |
|--|----------------------------------|---------|------------------------------|-----------------------------|-----------------------|--|-------------|
| | | | | | | Ambient temperature max. + 131 °F resp. 167 °F ⁴⁾ | |
| | | [mm] | [gal/min] | [V/Hz/W] | | Air [psi] | FKM seal |
| CF C 3/2-way solenoid valve Direct-acting Normally closed | BJ01 P: G 1/8 A: G 1/8 | 1.2 | 9.2 | 24/DC/7 | 100 % ED | 0...189 | 20077509 |
| | | | | 24/DC/5.5 | | 0...167 | 20070693 |
| | | | | 24/50/4 | | 0...189 | 20077511 |
| | | | | 230/50/4 | | 0...189 | 20070709 |
| | | 1.6 | 12.7 | 24/DC/7 | 100 % ED | 0...109 | o. r. |
| | | | | 24/DC/5.5 | | 0...87 | o. r. |
| | | | | 24/50/4 | | 0...109 | o. r. |
| | | | | 230/50/4 | | 0...109 | o. r. |
| | | 2.0 | 19.8 | 24/DC/7 | 100 % ED | 0...102 | o. r. |
| | | | | 24/DC/5.5 | | 0...80 | o. r. |
| | | | | 24/50/4 | | 0...87 | o. r. |
| | | | | 230/50/4 | | 0...87 | o. r. |
| | BJ02 P: G 1/4 A: G 1/4 | 1.2 | 9.2 | 24/DC/7 | 100 % ED | 0...189 | 20077512 |
| | | | | 24/DC/5.5 | | 0...167 | 20077514 |
| | | | | 24/50/4 | | 0...189 | 20077516 |
| | | | | 230/50/4 | | 0...189 | 20077519 |
| | | 1.6 | 12.7 | 24/DC/7 | 100 % ED | 0...109 | o. r. |
| | | | | 24/DC/5.5 | | 0...87 | o. r. |
| | | | | 24/50/4 | | 0...109 | o. r. |
| | | | | 230/50/4 | | 0...109 | o. r. |
| | | 2.0 | 19.8 | 24/DC/7 | 100 % ED | 0...102 | o. r. |
| | | | | 24/DC/5.5 | | 0...80 | o. r. |
| | | | | 24/50/4 | | 0...87 | o. r. |
| | | | | 230/50/4 | | 0...87 | o. r. |
| BJ03 P: NPT 1/4 A: G 1/8 | 1.2 | 9.2 | 24/DC/7 | 100 % ED | 0...189 | 20077523 | |
| | | | 24/DC/5.5 | | 0...167 | 20077564 | |
| | | | 24/50/4 | | 0...189 | 20077570 | |
| | | | 230/50/4 | | 0...189 | 20077574 | |
| | 1.6 | 12.7 | 24/DC/7 | 100 % ED | 0...109 | o. r. | |
| | | | 24/DC/5.5 | | 0...87 | o. r. | |
| | | | 24/50/4 | | 0...109 | o. r. | |
| | | | 230/50/4 | | 0...109 | o. r. | |
| | 2.0 | 19.8 | 24/DC/7 | 100 % ED | 0...102 | o. r. | |
| | | | 24/DC/5.5 | | 0...80 | o. r. | |
| | | | 24/50/4 | | 0...87 | o. r. | |
| | | | 230/50/4 | | 0...87 | o. r. | |

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| Circuit function | Port connection | Orifice | Q _{Nn} value air | Voltage/Frequency/ Power | Maximum duty cycle | Medium pressure ¹⁾²⁾ (MAWP ³⁾) | Article no. |
|---|--------------------------------|---------|------------------------------|-----------------------------|-----------------------|---|-------------|
| | | | | | | Ambient temperature max. +131 °F resp. 167 °F ⁴⁾ | |
| | | [mm] | [gal/min] | [V/Hz/W] | | Air [psi] | FKM seal |
| CF C 3/2-way solenoid valve Direct-acting Normally closed | BJ05 P: G ¼ A: G ⅝ | 1.2 | 9.2 | 24/DC/7 | 100 % ED | 0...189 | 20077596 |
| | | | | 24/DC/5.5 | | 0...167 | 20077598 |
| | | | | 24/50/4 | | 0...189 | 20077604 |
| | | | | 230/50/4 | | 0...189 | 20077609 |
| | | 1.6 | 12.7 | 24/DC/7 | 100% ED | 0...109 | o. r. |
| | | | | 24/DC/5.5 | | 0...87 | o. r. |
| | | | | 24/50/4 | | 0...109 | o. r. |
| | | | | 230/50/4 | | 0...109 | o. r. |
| | | 2.0 | 19.8 | 24/DC/7 | 100% ED | 0...102 | o. r. |
| | | | | 24/DC/5.5 | | 0...80 | o. r. |
| | | | | 24/50/4 | | 0...87 | o. r. |
| | | | | 230/50/4 | | 0...87 | o. r. |
| | BJ07 P: NPT ⅙ A: G ⅝ | 1.2 | 9.2 | 24/DC/7 | 100 % ED | 0...189 | 20077610 |
| | | | | 24/DC/5.5 | | 0...167 | 20077615 |
| | | | | 24/50/4 | | 0...189 | 20077618 |
| | | | | 230/50/4 | | 0...189 | 20077626 |
| | | 1.6 | 12.7 | 24/DC/7 | 100% ED | 0...109 | o. r. |
| | | | | 24/DC/5.5 | | 0...87 | o. r. |
| | | | | 24/50/4 | | 0...109 | o. r. |
| | | | | 230/50/4 | | 0...109 | o. r. |
| | | 2.0 | 19.8 | 24/DC/7 | 100% ED | 0...102 | o. r. |
| | | | | 24/DC/5.5 | | 0...80 | o. r. |
| | | | | 24/50/4 | | 0...87 | o. r. |
| | | | | 230/50/4 | | 0...87 | o. r. |

o. r.: on request

- 1.) Pressure data: overpressure to atmospheric pressure and air as a medium
- 2.) Number of switching cycles under laboratory conditions (FKM seal, oiled air, unpressurised, DC): 5 million. Please note that an increase in switching pressure can limit the life of the seat seal.
- 3.) Depending on the performance level
- 4.) For P1: 6 bar [87 psi] absolute and P2: 5 bar [73 psi] absolute

Additional options

Note:
Available on request

| 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 tightness requirements | PC05 | Leakage rate *less than 10 ⁻⁴ mbar l/sec |
| | PC08 | Leakage rate *less than 10 ⁻⁵ mbar l/sec |
| | PC06 | Leakage rate *less than 10 ⁻⁶ mbar l/sec |
| Vacuum version | on request | - |

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8.5. Ordering chart accessories

Single manifold

Note:

Further ordering information can be found in chapter “5.4. Single manifold” on page 13.

Multiple manifold

Note:

Further ordering information can be found in chapter “5.5. Multiple manifold” on page 14.

Accessories for manifolds

| Accessory | Features | Article no. |
|-------------|-------------------------------|-------------|
| Screw plug | With sealing ring, G 1/8 | 005041 |
| Cover plate | For unoccupied valve position | 005100 |

Cable plug Type 2516, form C according to DIN EN 175301 - 803

Note:

- Dimensions in mm
- Delivery of cable plug includes a flat seal and a fixing screw.
- For further versions see data sheet **Type 2516** ▶

| Cable plug | Dimensions | Version | Voltage | Article no. |
|------------|------------|----------------------------------|-----------------|-------------|
| | | Without circuitry | 0...250 V AC/DC | 303141 |
| | | With LED | 12...24 V AC/DC | 303145 |
| | | With LED and varistor | 12...24 V AC/DC | 303148 |
| | | With rectifier, LED and varistor | 12...24 V AC/DC | 303142 |

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Cable plug Type 2507, form B according to industry standard

Note:

- Dimensions in mm
- Delivery of cable plug includes a flat seal and a fixing screw.
- Refer to data sheet **Type 2507** ▶ for more information about the cable plug.

| Cable plug | Dimensions | Version | Voltage | Article no. |
|------------|------------|----------------------------------|-----------------|-------------|
| | | Without circuitry (standard) | 2...250 V AC/DC | 423845 |
| | | With LED | 24 V AC/DC | 423849 |
| | | With LED and free-wheeling diode | 12...24 V AC/DC | 423851 |
| | | With rectifier, LED and varistor | 2...250 V AC/DC | 423854 |
| | | | 12...24 V AC/DC | 423853 |

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