



Ball Valve, manually-operated

- Application for aggressive media
- High flow-rate
- Safe blocked union nuts with Dual Block® Technology



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

Can be combined with

| | | |
|---|--|---|
|  | Type 2052 Pneumatic rotary actuator | ▶ |
|  | Type 2051 Pneumatic rotary actuator | ▶ |
|  | Type 3003 Electrical Rotary Actuator - On/Off and control | ▶ |
|  | Type 3004 Explosion Proof Rotary Actuator - On/Off and control | ▶ |
|  | Type 3005 Electric Rotary Actuator - On/Off and Control | ▶ |
|  | Type 1061 Limit switch box for pneumatic rotary actuators | ▶ |

Type description

2/2- and 3/2-way ball valves with manual override in plastic for separating medium flow. Different body versions and materials can be ordered to suit various applications. Special feature: The ball valves are equipped with the so-called Dual Block® Technology. This system serves as a safety device for the union nuts. It prevents that the installed valve becomes loose during the operation.

Table of contents

| | |
|--|----------|
| 1. General technical data | 3 |
| 2. Dimensions | 3 |
| 2.1. 2/2 way version..... | 3 |
| 2.2. 3/2 way version..... | 4 |
| 3. Performance specifications | 4 |
| 3.1. Pressure temperature diagram..... | 4 |
| 3.2. Torques | 5 |
| 3.3. Switching positions 3-way..... | 5 |
| 4. Product accessories | 5 |
| 4.1. Adaption flange..... | 5 |
| 4.2. Ball valve attachment..... | 6 |
| 4.3. Mounting plate – used for wall fixing of the plastic ball valves..... | 6 |
| 5. Ordering information | 6 |
| 5.1. Bürkert eShop – Easy ordering and quick delivery..... | 6 |
| 5.2. Bürkert product filter..... | 6 |
| 5.3. Ordering chart..... | 7 |
| 2/2 way ball valve | 7 |
| 3/2 way ball valve PVC-U | 7 |
| 5.4. Ordering chart accessories..... | 8 |
| Adaption flange in PP-GR..... | 8 |
| Mounting plate – used for wall fixing of the plastic ball valves..... | 8 |

1. General technical data

Product properties

Materials

| | |
|------|--------------------------------------|
| Body | PVC-U, PP-H (PVDF, PVC-C on request) |
| Seal | PTFE/EPDM, PTFE/FKM |

Performance data

Operating pressure (max.)

| | |
|--------------------|------------|
| PP-H | 0...10 bar |
| PVC-U, PVDF, PVC-C | 0...16 bar |

See also "3.1. Pressure temperature diagram" on page 4

Medium data

Media temperature

| | |
|-------|-----------------|
| PVC-U | 0 °C...+60 °C |
| PP-H | +10 °C...+80 °C |
| PVDF | 0 °C...+120 °C |
| PVC-C | 0 °C...+100 °C |

Product connections

Port connection

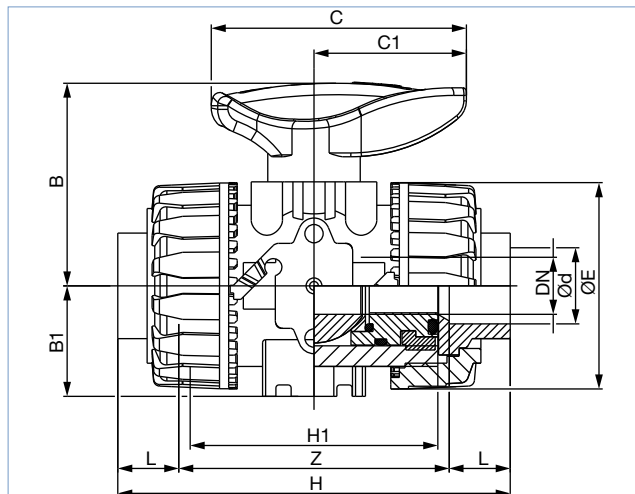
| | |
|---------------|-----------------------------------|
| True union | PVC-U |
| Fusion spigot | PP-H, (PVDF and PVC-C on request) |

2. Dimensions

2.1. 2/2 way version

Note:

Dimensions in mm.

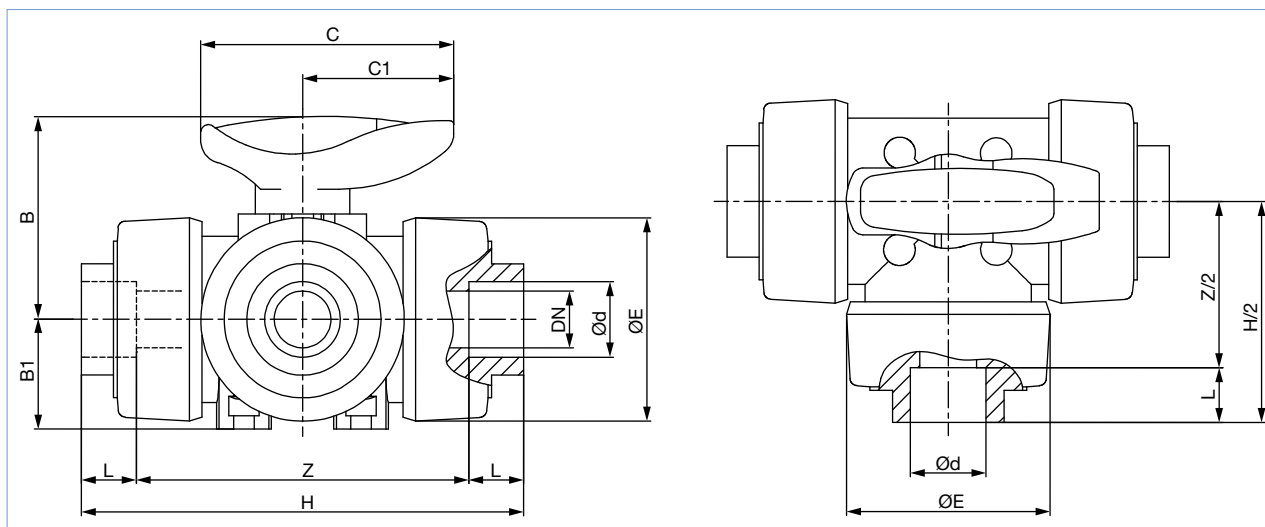


| Ød | DN | L | Z | H | H1 | ØE | B | B1 | C | C1 | Weight [g] |
|-----|-----|----|-----|-----|-----|-----|------|------|-----|-----|------------|
| 16 | 10 | 14 | 75 | 103 | 65 | 54 | 54 | 29 | 67 | 40 | 215 |
| 20 | 15 | 16 | 71 | 103 | 65 | 54 | 54 | 29 | 67 | 40 | 205 |
| 25 | 20 | 19 | 77 | 115 | 70 | 65 | 65 | 34.5 | 85 | 49 | 330 |
| 32 | 25 | 22 | 84 | 128 | 78 | 73 | 69.5 | 39 | 85 | 49 | 438 |
| 40 | 32 | 26 | 94 | 146 | 88 | 86 | 82.5 | 46 | 108 | 64 | 693 |
| 50 | 40 | 31 | 102 | 164 | 93 | 98 | 89 | 52 | 108 | 64 | 925 |
| 63 | 50 | 38 | 123 | 199 | 111 | 122 | 108 | 62 | 134 | 76 | 1577 |
| 75 | 65 | 44 | 147 | 235 | 133 | 164 | 164 | 87 | 225 | 175 | 4380 |
| 90 | 80 | 51 | 168 | 270 | 149 | 203 | 177 | 105 | 327 | 272 | 7200 |
| 110 | 100 | 61 | 186 | 308 | 167 | 238 | 195 | 129 | 385 | 330 | 11141 |

2.2. 3/2 way version

Note:

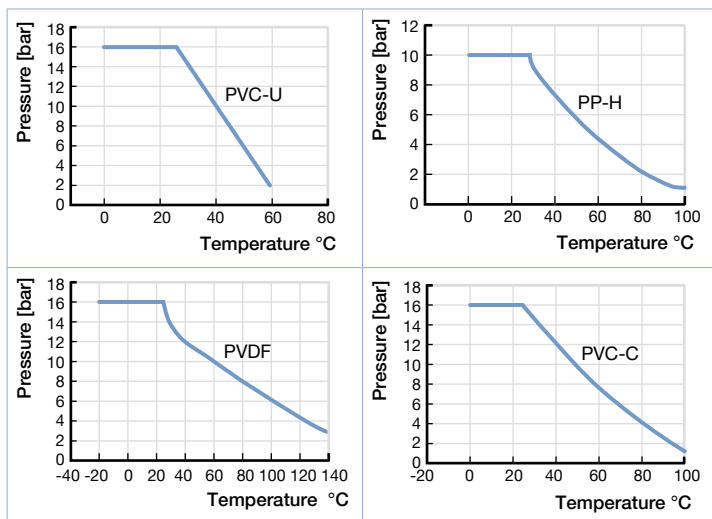
Dimensions in mm



| Ød | DN | L | Z | H | ØE | B | B1 | C | C1 | Weight [g] |
|----|----|----|-------|-------|-----|------|------|-----|----|------------|
| 16 | 10 | 14 | 90 | 118 | 54 | 54 | 29 | 67 | 40 | 310 |
| 20 | 15 | 16 | 86 | 118 | 54 | 54 | 29 | 67 | 40 | 310 |
| 25 | 20 | 19 | 107 | 145 | 65 | 65 | 34.5 | 85 | 49 | 550 |
| 32 | 25 | 22 | 116 | 160 | 73 | 69.5 | 39 | 85 | 49 | 790 |
| 40 | 32 | 26 | 136.5 | 188.5 | 86 | 82.5 | 46 | 108 | 64 | 1275 |
| 50 | 40 | 31 | 157 | 219 | 98 | 89 | 52 | 108 | 64 | 1660 |
| 63 | 50 | 38 | 190.5 | 266.5 | 122 | 108 | 62 | 134 | 76 | 2800 |

3. Performance specifications

3.1. Pressure temperature diagram



DTS 1000090181 EN Version: L Status: RL (released | freigegeben | valide) printed: 09.03.2022

3.2. Torques

| DN | Port connections Ø [mm] | 2 way plastic ball valves (DN 10...DN 50) | Torques [Nm] | | | 3 way plastic ball valves (DN 15...DN 50) |
|-----|-------------------------|---|--|-------|------|---|
| | | | 2 way plastic ball valves (DN 65...DN 100) | | | |
| | | | PN 16 | PN 10 | PN 6 | |
| 10 | 16 | 3 | – | – | – | – |
| 15 | 20 | 3 | – | – | – | 3 |
| 20 | 25 | 4 | – | – | – | 5 |
| 25 | 32 | 6 | – | – | – | 6 |
| 32 | 40 | 7 | – | – | – | 12 |
| 40 | 50 | 10 | – | – | – | 14 |
| 50 | 63 | 16 | – | – | – | 23 |
| 65 | 75 | – | 30 | 25 | 20 | – |
| 80 | 90 | – | 45 | 35 | 25 | – |
| 100 | 110 | – | 65 | 55 | 40 | – |

3.3. Switching positions 3-way

| Ball bore | | T | | | L |
|--------------------|-----|----|----|----|----|
| Position | 0° | | | | |
| | 90° | | | | |
| Switching position | | T1 | T2 | T3 | L4 |

4. Product accessories

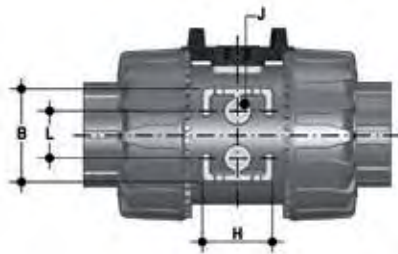
4.1. Adaption flange

Adaption flange in PP-GR: used for automation of ball valves with pneumatic or electric rotary actuators.



4.2. Ball valve attachment

All valves, both manual and motor operated, must be adequately supported in many applications. The 2657 valve series features mounting brackets that allow direct anchoring to the valve body without additional components. For wall or panel installations, the dedicated mounting plate (see 4.3) can be used.



| d | DN | B | H | L | J ^{1.)} |
|----|----|------|----|----|------------------|
| 16 | 10 | 31.5 | 27 | 20 | M4 x 6 |
| 20 | 15 | 31.5 | 27 | 20 | M4 x 6 |
| 25 | 20 | 40 | 30 | 20 | M4 x 6 |
| 32 | 25 | 40 | 30 | 20 | M4 x 6 |
| 40 | 32 | 50 | 35 | 20 | M6 x 10 |
| 50 | 40 | 50 | 35 | 20 | M6 x 10 |
| 63 | 50 | 60 | 40 | 20 | M6 x 10 |


1.) With threaded sockets

4.3. Mounting plate – used for wall fixing of the plastic ball valves

| Description | Components |
|-----------------------|--|
| <p>Mounting plate</p> | <ul style="list-style-type: none"> • Mounting plate (GRP reinforced PP) • Screw (Stainless Steel) • Threaded bush (Brass) |

5. Ordering information

5.1. Bürkert eShop – Easy ordering and quick delivery




Bürkert eShop – Easy ordering and fast 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](#)

5.2. Bürkert product filter



Bürkert product filter – Get quickly to the right product

You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and easily.

[Try out our product filter](#)

5.3. Ordering chart

2/2 way ball valve

Note:




Further versions on request.

| Orifice [mm] | Port connection Ø [mm] | K _{vs} value for water [m ³ /h] | Pressure range PVC-U, PVDF, PCV-C [bar] | Pressure range PP-H [bar] | Article no. true union PVC-U | Article no. fusion spigot PP-H |
|--------------------------------|------------------------|---|---|---------------------------|------------------------------|--------------------------------|
| Seal material PTFE/EPDM | | | | | | |
| 10 | 16 | 4.8 | 0...16 | 0...10 | 176462 | 176469 |
| 15 | 20 | 12 | 0...16 | 0...10 | 176463 | 176470 |
| 20 | 25 | 23 | 0...16 | 0...10 | 176464 | 176471 |
| 25 | 32 | 46 | 0...16 | 0...10 | 176465 | 176472 |
| 32 | 40 | 66 | 0...16 | 0...10 | 176466 | 176473 |
| 40 | 50 | 105 | 0...16 | 0...10 | 176467 | 176474 |
| 50 | 63 | 204 | 0...16 | 0...10 | 176468 | 176475 |
| 65 | 75 | 315 | 0...16 | 0...10 | 202660 | 252587 |
| 80 | 90 | 426 | 0...16 | 0...10 | 185991 | 238514 |
| 100 | 110 | 570 | 0...16 | 0...10 | 202750 | 254604 |
| Seal material PTFE/FKM | | | | | | |
| 10 | 16 | 4.8 | 0...16 | 0...10 | 176476 | 176483 |
| 15 | 20 | 12 | 0...16 | 0...10 | 176477 | 176484 |
| 20 | 25 | 23 | 0...16 | 0...10 | 176478 | 176485 |
| 25 | 32 | 46 | 0...16 | 0...10 | 176479 | 176486 |
| 32 | 40 | 66 | 0...16 | 0...10 | 176480 | 176487 |
| 40 | 50 | 105 | 0...16 | 0...10 | 176481 | 176488 |
| 50 | 63 | 204 | 0...16 | 0...10 | 176482 | 176489 |
| 65 | 75 | 315 | 0...16 | 0...10 | 182519 | On request |
| 80 | 90 | 426 | 0...16 | 0...10 | 185855 | On request |
| 100 | 110 | 570 | 0...16 | 0...10 | 205537 | On request |

3/2 way ball valve PVC-U

Note:

Further versions on request.













| Switched position | Orifice [mm] | Port connection Ø [mm] | K _{vs} value for water [m ³ /h] | Pressure range [bar] | Article no. seal material EPDM | Article no. seal material FKM |
|---|--------------|------------------------|---|----------------------|--------------------------------|-------------------------------|
| T1  0° | 10 | 16 | 1.5 | 0...16 | 209890 | 186022 |
| | 15 | 20 | 2.1 | 0...16 | 209891 | 186023 |
| | 20 | 25 | 5.7 | 0...16 | 209892 | 186024 |
| | 25 | 32 | 8.4 | 0...16 | 209893 | 186025 |
| | 32 | 40 | 16.2 | 0...16 | 209894 | 186026 |
| 90°  90° | 40 | 50 | 19.8 | 0...16 | 209895 | 186027 |
| | 50 | 63 | 37.2 | 0...16 | 209896 | 186028 |
| | 10 | 16 | 2.8 | 0...16 | 209897 | 186015 |
| | 15 | 20 | 4.3 | 0...16 | 209898 | 186016 |
| | 20 | 25 | 9.0 | 0...16 | 209899 | 186017 |
| L4  0° | 25 | 32 | 15.9 | 0...16 | 209900 | 186018 |
| | 32 | 40 | 28.5 | 0...16 | 202689 | 186019 |
| | 40 | 50 | 37.2 | 0...16 | 209901 | 186020 |
| | 50 | 63 | 67.2 | 0...16 | 209902 | 186021 |

5.4. Ordering chart accessories



Adaption flange in PP-GR

Note:

Adaption flange in PP-GR: used for automation of ball valves with pneumatic or electric rotary actuators.

| For ball valve orifice [mm] | For port connection Ø [mm] | ISO 5211 Flange | Square [mm] | Double square [mm] | Article no. |
|-----------------------------|----------------------------|-----------------|-------------|--------------------|--|
| 10 | 16 | F03/04 | 11 | – | 669974  |
| | | F03/04 | – | 14 | 669980  |
| 15 | 20 | F03/04 | 11 | – | 669974  |
| | | F03/04 | – | 14 | 669980  |
| 20 | 25 | F03/05 | 11 | – | 669975  |
| | | F03/05 | – | 14 | 669981  |
| 25 | 32 | F03/05 | 11 | – | 669976  |
| | | F03/05 | – | 14 | 669982  |
| 32 | 40 | F05/07 | 14 | – | 669977  |
| 40 | 50 | F05/07 | 14 | – | 669978  |
| 50 | 63 | F05/07 | 14 | – | 669979  |
| 65 | 75 | F05/07 | 14 | – | 672134  |
| 80 | 90 | | | | |
| 100 | 110 | | | | |

Mounting plate – used for wall fixing of the plastic ball valves

| For ball valve orifice [mm] | For port connection Ø [mm] | Article no. |
|-----------------------------|----------------------------|--|
| 10...25 | 16...32 | 772678  |
| 32...50 | 40...63 | 772679  |

Bürkert – Close to You

For up-to-date addresses
please visit us at
www.burkert.com

DTS 1000090181 EN Version: L Status: RL (released | freigegeben | validé) printed: 09.03.2022

Austria
Belgium
Czech Republic
Denmark
Finland
France
Germany
Italy
Netherlands

Norway
Poland
Spain
Sweden
Switzerland
Turkey
United Kingdom

Russia

Canada
USA

Brazil
Uruguay

South Africa

United
Arab
Emirates

Australia
New Zealand

China
Hong Kong
India
Japan
Korea
Malaysia
Philippines
Singapore
Taiwan