



### 2/2-way or 3/2-way ball valve, 2-piece

- Stainless steel ball valve
- High flow rate
- High medium pressure
- Long service life
- ISO 5211 mounting flange



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

#### Can be combined with

	<b>Type 2051</b> Pneumatic rotary actuator	▶
	<b>Type 3003</b> Electrical Rotary Actuator - On/Off and control	▶
	<b>Type 3004</b> Explosion-Proof Rotary Actuator - On/Off or Control	▶
	<b>Type 3005</b> Electric Rotary Actuator - On/Off and Control	▶
	<b>Type 1061</b> Position feedback unit for pneumatic rotary actuators	▶
	<b>Type 8792</b> Digital electropneumatic positioner SideControl	▶
	<b>Type 8805</b> Ball valve / Butterfly valve with pneumatic rotary actuator	▶
	<b>Type 8804</b> Ball valve / butterfly valve with electrical rotary actuator	▶

#### Type description

2/2- and 3/2-way stainless steel ball valve used to shut off and distribute medium flows. The ball valves can be connected via the mechanical interface according to ISO 5211 with a pneumatic rotary actuator (e.g. Type 2051, Type 2052, Type 2053) or electrical rotary actuator (e.g. Type 3003, Type 3004, Type 3005).

## Table of contents

<b>1. General technical data</b>	<b>3</b>
<b>2. Approvals and conformities</b>	<b>3</b>
2.1. General notes .....	3
2.2. Conformity .....	3
2.3. Standards .....	3
2.4. Others .....	3
<b>3. Materials</b>	<b>4</b>
3.1. Bürkert resistApp .....	4
<b>4. Dimensions</b>	<b>5</b>
4.1. 2-way, threaded variant .....	5
4.2. 3-way, threaded variant .....	6
<b>5. Performance specifications</b>	<b>6</b>
5.1. Pressure temperature diagram .....	6
5.2. Torques .....	7
5.3. Switching positions 3-way .....	7
<b>6. Ordering information</b>	<b>7</b>
6.1. Bürkert eShop .....	7
6.2. Bürkert product filter .....	7
6.3. Ordering chart 2-way, threaded variant .....	8
6.4. Ordering chart 3-way, threaded variant .....	8

## 1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "4. Dimensions" on page 4.
Materials	
Seal	PTFE (ball seal) FKM (stem sealing)
Body	Stainless steel 1.4408/316
Ball	Stainless steel 1.4401/316
Stem	Stainless steel 1.4401/316
Nominal diameter	DN 10...50 (2/2-way) DN 10...40 (3/2-way)
Ball bore (3/2-way)	L-bore T-bore
Medium data	
Medium temperature	- 10 °C...+ 200 °C (see "5.1. Pressure temperature diagram" on page 5)
Medium pressure	2/2-way: max. 100 bar (see "5.1. Pressure temperature diagram" on page 5) 3/2-way: max. 63 bar (see "5.1. Pressure temperature diagram" on page 5)
Process/Port connection & communication	
Port connection	Rp 1/4"...Rp 2" Whitworth thread according to DIN EN 10226 -1 (old DIN 2999)
Actuator-side interface	According to EN ISO 5211

## 2. Approvals and conformities

### 2.1. 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 variants can be supplied with the below mentioned approvals or conformities.

### 2.2. Conformity

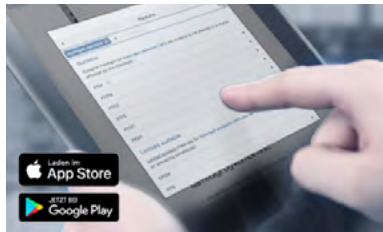
In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

### 2.3. 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. Materials

#### 3.1. Bürkert resistApp



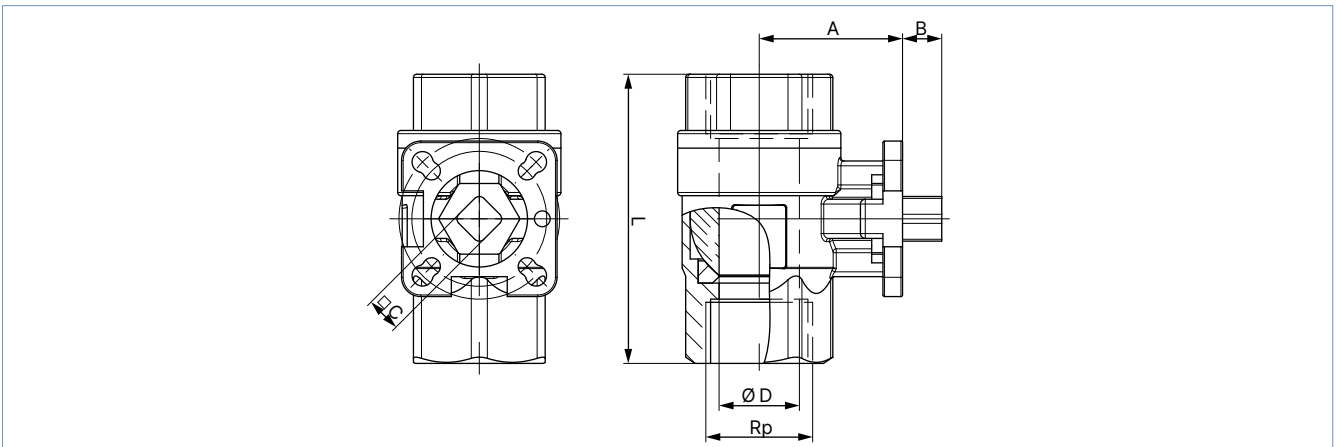
#### Bürkert resistApp – Chemical resistance chart

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. Dimensions

#### 4.1. 2-way, threaded variant



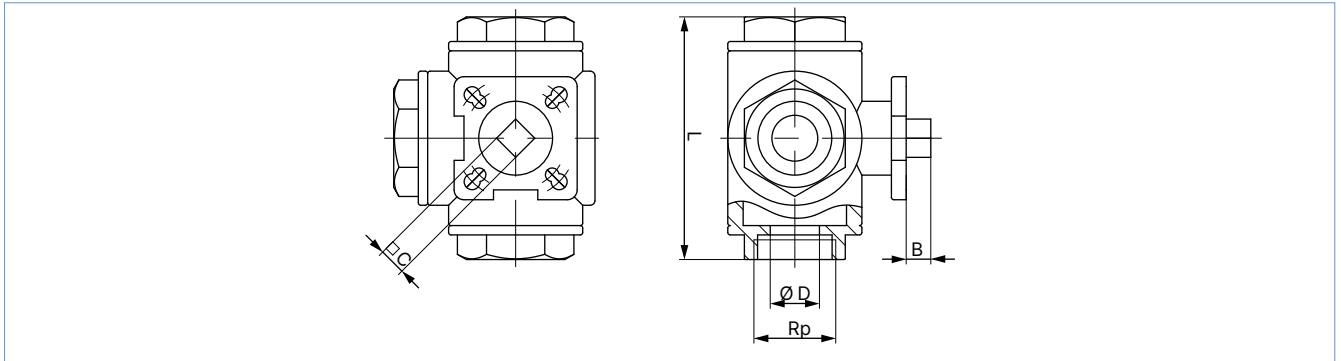
DN	Rp	D [mm]	L [mm]	A [mm]	B [mm]	C [mm]	Interface acc. to ISO 5211	Article no.	
	[inch]							Bare shaft <sup>1)</sup>	Manually operated
10	1/4	11.6	50	33.2	7	9	F03	185972	276475
12	3/8	12.7	60	33.2	7	9	F03/F04	185973	276476
15	1/2	15	75	35	7.5	9	F03/F04	185974	276477
20	3/4	20	80	41	12.1	11	F04/F05	185975	276478
25	1	25	90	44.5	12.1	11	F04/F05	185976	276479
32	1 1/4	31.8	110	49.5	11.5	11	F04/F05	185977	276480
40	1 1/2	38	120	55	12.1	11	F04/F05	185978	276481
50	2	50.8	140	66.5	15.5	14	F05/F07	185979	276482

1.) The ball valves with bare shaft are suitable for automated operation with pneumatic or electric rotary actuators.

### 4.2. 3-way, threaded variant

**Note:**

Further information on 3-way ball valves with hand lever can be found in **Type TKU001|002|003|004** ▶

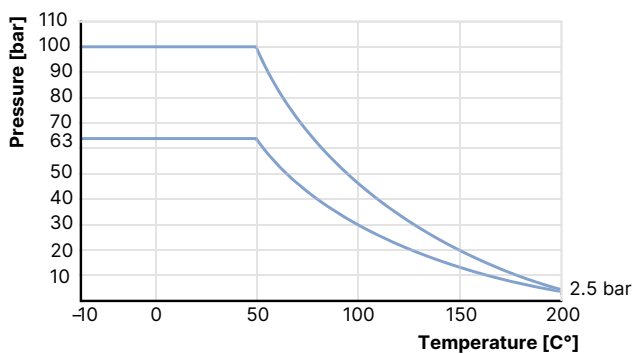


DN	Rp	D [mm]	L [mm]	B [mm]	C [mm]	Interface acc. to ISO 5211	Article no.	
	[inch]						L-bore	T-bore
10	¼	10	80	7.4	9	F03/F04	172844	185984
12	½	12	80	7.4	9	F03/F04	185853	185987
15	¾	15	87.5	12.8	11	F04/F05	172845	185988
20	1	20	100	11.4	11	F04/F05	172847	185989
25	1¼	25	123	12.4	11	F04/F05	172848	185990
32	1½	32	142.2	9.8	11	F04/F05	172849	185992
40	2	40	170.6	15.8	14	F05/F07	172851	185993

## 5. Performance specifications

### 5.1. Pressure temperature diagram

For general industrial use



DTS 1000010994 EN Version: M Status: RL (released | freigegeben | validé) printed: 20.12.2024

## 5.2. Torques

**Note:**

The values were measured under the following conditions: Max.  $\Delta p$ , ambient temperature, medium: water

Torques for 2/2-way ball valves with a PN 100 pressure rating								
DN [mm]	10	12	15	20	25	32	40	50
Breakaway torque [Nm]	13	13	16	25	31	53	76	99
Running torque [Nm]	10	10	13	20	24	43	60	80

Torques for 3/2-way ball valves with a PN 63 pressure rating								
DN [mm]	10	12	15	20	25	32	40	
Breakaway torque [Nm]	13	13	18	22	35	42	68	
Running torque [Nm]	9	9	12	14	23	28	45	

## 5.3. Switching positions 3-way

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

## 6. Ordering information

### 6.1. 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](#)

### 6.2. 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](#)

DTS 1000010994 EN Version: M Status: RL (released | freigegeben | validé) printed: 20.12.2024

### 6.3. Ordering chart 2-way, threaded variant

**Note:**

Further information can be found in chapter [“4.1. 2-way, threaded variant” on page 4.](#)

### 6.4. Ordering chart 3-way, threaded variant

**Note:**

Further information can be found in chapter [“4.2. 3-way, threaded variant” on page 5.](#)