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

Type 2051
Pneumatic rotary actuator

Type 3003
Electrical Rotary Actuator - On/Off and control

Type 3004
Explosion-Proof Rotary Actuator - On/Off or Control

Type 3005
Electrical Rotary Actuator - On/Off and Control

Type 1061
Position feedback unit for pneumatic rotary actuators

Type 8792
Digital electropneumatic positioner SideCONTROL

Type 8805
Ball valve / Butterfly valve with pneumatic rotary actuator

Type 8804
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).

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Visit product website

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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 seal)
Body	Stainless steel 1.4408/316
Ball	Stainless steel 1.4401/316
Stem	Stainless steel 1.4401/316
Nominal diameter	DN 8...DN 50 (2/2-way) DN 8...DN 50 (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)
Product connections	
Port connection	Rp ¼"...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.

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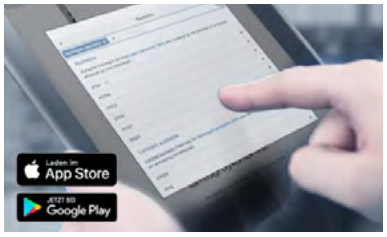
3. Materials

3.1. Bürkert resistApp



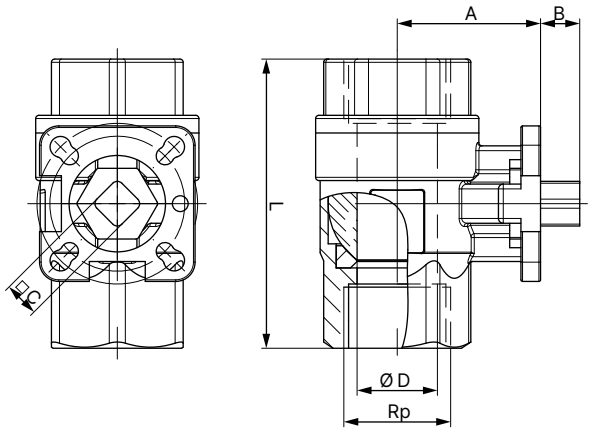
Bürkert resistApp – Chemical resistance chart

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 ball valve, threaded variant



DN	Rp [inch]	D [mm]	L [mm]	A [mm]	B [mm]	C [mm]	Interface acc. to ISO 5211	Article no.	
								Bare shaft 1.)	Manually operated
8	¼	11.6	50	33.2	7	9	F03	185972	276475
10	⅜	12.7	60	33.2	7	9	F03/F04	185973	276476
15	½	15	75	35	7.5	9	F03/F04	185974	276477
20	¾	20	80	41	12.1	11	F04/F05	185975	276478
25	1	25	90	44.5	12.1	11	F04/F05	185976	276479
32	1¼	31.8	110	49.5	11.5	11	F04/F05	185977	276480
40	1½	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.

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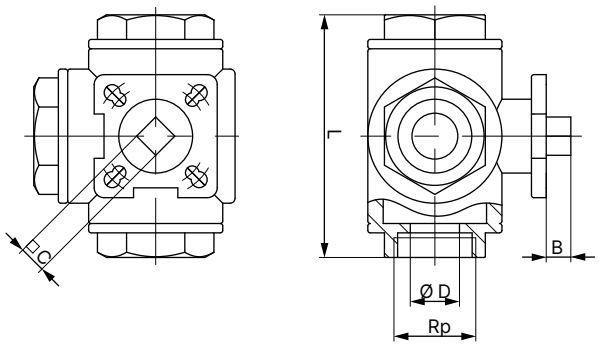
4.2. 3-way ball valve, threaded variant

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

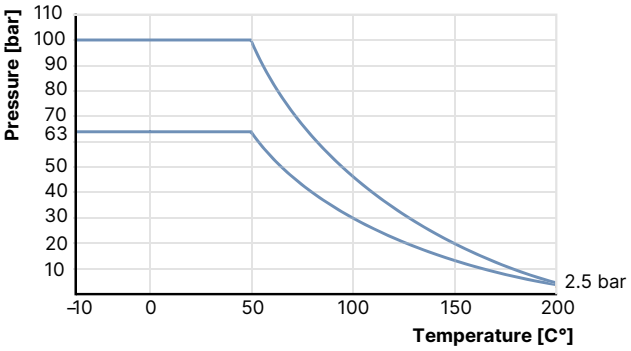


DN	Rp	D	L	B	C	Interface acc. to ISO 5211	Article no.	
	[inch]	[mm]	[mm]	[mm]	[mm]		L-bore	T-bore
8	¼	12	80	8.5	9	F03/F04	172844	185984
10	⅜	12	80	8.5	9	F03/F04	185981	185986
15	½	12	80	8.5	9	F03/F04	185853	185987
20	¾	15	88	11.5	11	F04/F05	172845	185988
25	1	20	100	11.5	11	F04/F05	172847	185989
32	1¼	25	122	11.5	11	F04/F05	172848	185990
40	1½	32	141	11.5	11	F04/F05	172849	185992
50	2	40	171	15.5	14	F05/F07	172851	185993

5. Performance specifications

5.1. Pressure temperature diagram

For general industrial use



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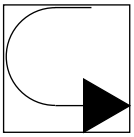
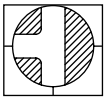
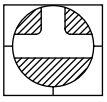
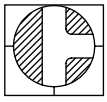
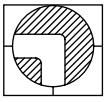
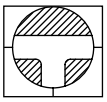
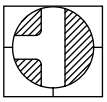
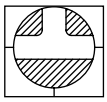
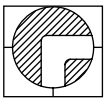
5.2. Torques

Note:
The values were measured under the following conditions: Max. Δp, ambient temperature, medium: water

Torques for 2/2-way ball valve with a PN 100 pressure rating								
DN	8	10	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 valve with a PN 63 pressure rating								
DN	8	10	15	20	25	32	40	50
Breakaway torque [Nm]	13	13	18	22	35	42	68	97
Running torque [Nm]	9	9	12	14	23	28	45	80

5.3. Switching positions 3-way ball valve

Ball bore		T			L
Position 	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

6.3. Ordering chart 2-way ball valve, threaded variant

Note:
Further information can be found in chapter "4.1. 2-way ball valve, threaded variant" on page 4.

6.4. Ordering chart 3-way ball valve, threaded variant

Note:
Further information can be found in chapter "4.2. 3-way ball valve, threaded variant" on page 5.

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