



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 or Control	▶
	Type 3005 Electric Rotary Actuator - On/Off and Control	▶
	Type 1061 Position feedback unit 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.

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1. General technical data

Product properties

Dimensions Further information can be found in chapter "4. Dimensions" on page 4.

Material

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

Performance data

Operating pressure

PP-H Max. 0...10 bar
 PVC-U, PVDF, PVC-C 0...16 bar
 Further information can be found in chapter "5.1. Pressure temperature diagram" on page 5.

Medium data

Medium 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

Glued socket connection PVC-U
 Weld socket connection PP-H (PVDF and PVC-C on request)

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

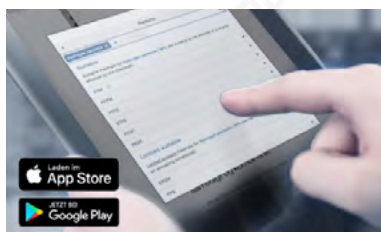
In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

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



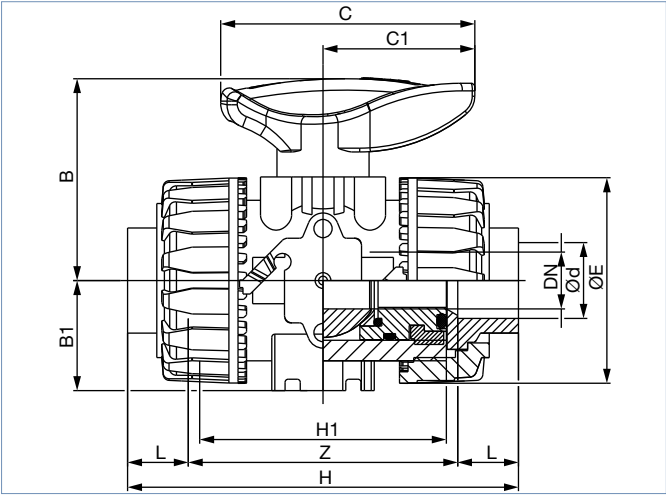
Bürkert resistApp – Chemical Resistance Chart

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](#)

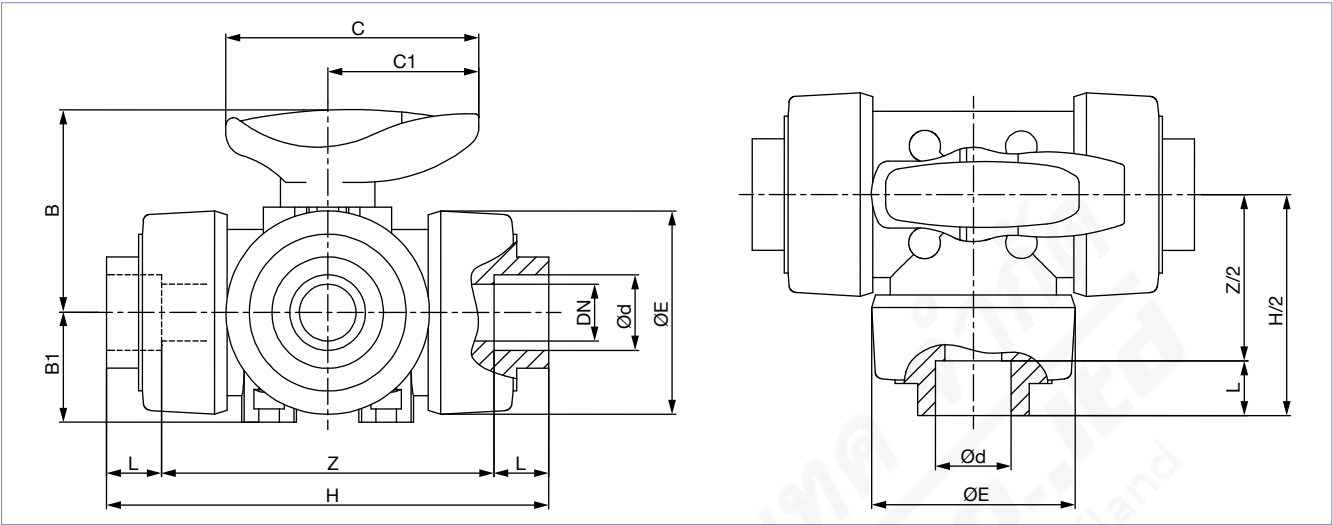
4. Dimensions

4.1. 2/2-way variant



Ød	DN	L	Z	H	H1	ØE	B	B1	C	C1	Weight
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[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

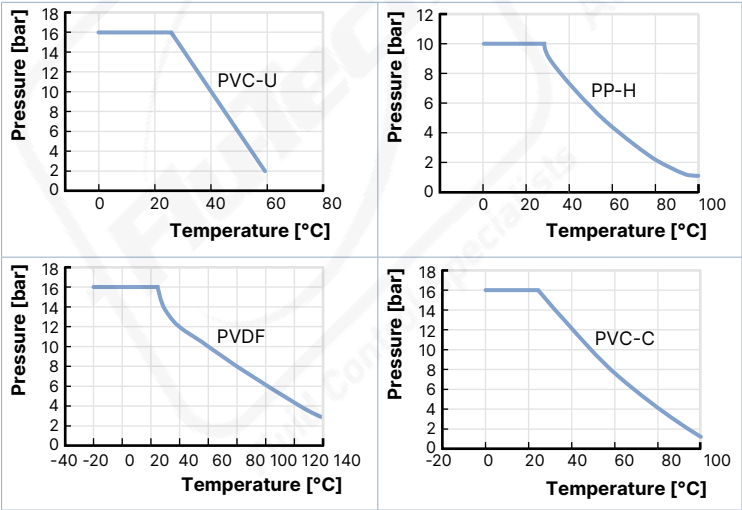
4.2. 3/2-way variant



Ød	DN	L	Z	H	ØE	B	B1	C	C1	Weight
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[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

5. Performance specifications

5.1. Pressure temperature diagram



5.2. Torques

DN	Port connections Ø	Torques				
		2-way plastic ball valves (DN 10...DN 50)	2-way plastic ball valves (DN 65...DN 100)			3-way plastic ball valves (DN 15...DN 50)
	[mm]	[Nm]	PN 16 [Nm]	PN 10 [Nm]	PN 6 [Nm]	[Nm]
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	–

5.3. Switching positions of 3-way variant

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

6. Product accessories

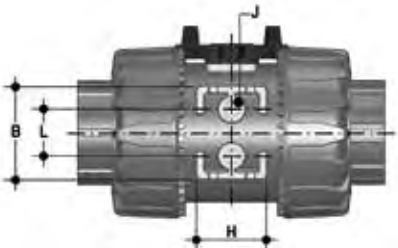
6.1. Adaption flange

The adaption flange in PP-GR is used for automation of ball valves with pneumatic or electric rotary actuators.



6.2. Ball valve attachment

All valves, both manual and motor-operated, must be adequately supported in many applications. The Type 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 can be used (see chapter “6.3. Mounting plate to mount plastic ball valves on walls” on page 7).

Dimensions	DN	d	B	H	L	J ¹⁾
		[mm]	[mm]	[mm]	[mm]	[mm]
	10	16	31.5	27	20	M4 × 6
	15	20	31.5	27	20	M4 × 6
	20	25	40	30	20	M4 × 6
	25	32	40	30	20	M4 × 6
	32	40	50	35	20	M6 × 10
	40	50	50	35	20	M6 × 10
	50	63	60	40	20	M6 × 10

1.) With threaded sockets

6.3. Mounting plate to mount plastic ball valves on walls

Illustration	Components
	• Mounting plate (GRP-reinforced PP) • Screw (stainless steel) • Threaded bush (brass)

7. Ordering information

7.1. Bürkert eShop



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7.2. Bürkert product filter



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7.3. Ordering chart

2/2-way ball valve

Note:

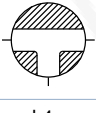
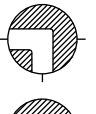
Further versions on request

Nominal diameter	Port connection Ø	K _{vs} value for water	Pressure range PVC-U, PVDF, PCV-C	Pressure range PP-H	Article no. glued socket PVC-U	Article no. weld socket PP-H
	[mm]	[m³/h]	[bar]	[bar]		
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 in PVC-U

Note:

Further versions on request

Switched position	Nominal diameter	Port connection Ø	K _{vs} value for water	Pressure range	Article no. seal material: EPDM seal	Article no. seal material: FKM
		[mm]	[m³/h]	[bar]		
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 ☒
	40	50	19.8	0...16	209895 ☒	186027 ☒
90°  90°	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 ☒
	25	32	15.9	0...16	209900 ☒	186018 ☒
	32	40	28.5	0...16	202689 ☒	186019 ☒
L4  0°	40	50	37.2	0...16	209901 ☒	186020 ☒
	50	63	67.2	0...16	209902 ☒	186021 ☒
	90°  90°					

7.4. Ordering chart accessories

Adaption flange in PP-GR

Note:

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

For ball valve orifice [mm]	For port connection Ø [mm]	Interface according to ISO 5211	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 to mount plastic ball valves on walls

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