

Ball valve

3-piece, Rp tread, stainless steel

STAINLESS STEEL

Art. No. 164033

Type No. KH.ES.RP12.BK



Exemplary illustration

2/2-way stainless steel ball valve for shutting off media flows.

The ball valves can be connected to a pneumatic or electric rotary actuator via the mechanical interface in accordance with ISO 5211.

Advantages:

- low torque
- high flow rates
- high media pressures
- long service life
- easy maintenance

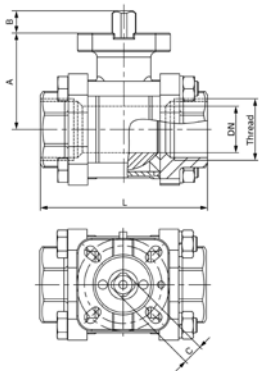
Technical data

Housing	stainless steel 1.4408
Ball	stainless steel 1.4401
Ball seal	PTFE
Stem seal	FKM
Max. operating pressure	63 bar
Operating temperature	-10 to 200 °C
Standard thread	DIN EN 10226-1
Thread	Rp 1/2 IT
DN	16 mm
L	75.0 mm
A	40.0 mm
B	7.0 mm
ISO 5211	F 03 / F 04

Commercial data

Customs tariff number	84818081
Country of origin	TW
eCl@ss 5.1.4	27292002
eCl@ss 9.0	27292002
UNSPSC_Code_v190501	40141603
UNSPSC_CodeDesc_v190501	Pneumatic valves

Dimensions



Thread	DN mm	A mm	B mm	C mm	L mm
Rp 1/2 IT	16	40.0	7.0	9.0	75.0

DATA SHEET
Type 2654

bürkert
FLUID CONTROL SYSTEMS


2/2-way ball valve, 3-piece

- Stainless steel ball valve
- High flow values
- High medium pressures
- 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 2053 Pneumatic rotary actuator for the automation of ball and butterfly valves	▶
	Type 3003 Electrical Rotary Actuator - On/Off and control	▶
	Type 3005 Electric Rotary Actuator - On/Off and Control	▶
	Type 3004 Explosion-Proof Rotary Actuator - On/Off or Control	▶
	Type 1061 Position feedback unit for pneumatic rotary actuators	▶
	Type 8692 Digital electro-pneumatic positioner for integrated mounting on process control valves	▶

Type description

2/2-way ball valve in stainless steel for separating medium flows. The ball valves can be connected via the mechanical interface according to ISO 5211 to a pneumatic (e.g. Type 2051, Type 2052, Type 2053) or electric rotary actuator (e.g. Type 3003, Type 3004, Type 3005). Benefits:

- low torques
- high flow values
- high medium pressure
- long service life
- maintenance-friendly

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Type 2654**Table of contents**

1. General technical data	3
2. Approvals and conformities	3
2.1. General notes	3
2.2. Conformity	3
2.3. Standards.....	3
3. Materials	3
3.1. Bürkert resistApp.....	3
4. Dimensions	4
4.1. Threaded variant (PN 63).....	4
4.2. Weld end variant (PN 63)	5
4.3. Flange variant (PN 40)	6
5. Performance specifications	7
5.1. Pressure temperature diagram	7
5.2. Torques.....	7
6. Product accessories	7
6.1. Wearing part set for ball valve Type 2654	7
6.2. Lever for ball valve Type 2654	7
7. Ordering information	8
7.1. Bürkert eShop	8
7.2. Bürkert product filter.....	8
7.3. Ordering chart threaded variant	8
7.4. Ordering chart weld end variant.....	8
7.5. Ordering chart accessories.....	8
Wearing part set for ball valve Type 2654	8
Lever for ball valve Type 2654	9

DTS 1000202400 EN Version: M Status: RL (released | freigegeben | valide) printed: 20.12.2024

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Type 2654



1. General technical data

Note:

Further information on 3-piece ball valves with hand lever (but without ISO 5211 flange) can be found in data sheet
Type TKU001 | 002 | 003 | 004 ▶.

Product properties	
Dimensions	Further information can be found in chapter "4. Dimensions" on page 4.
Materials	
Seal	PTFE (ball seal) FKM (selector shaft seal)
Body	Stainless steel 1.4408/316
Ball	Stainless steel 1.4401/316
Selector shaft	Stainless steel 1.4401/316
Nominal diameter	DN 10...100
Medium data	
Medium temperature	-10 °C...200 °C (see "5.1. Pressure temperature diagram" on page 7)
Medium pressure	See "4. Dimensions" on page 4 and "5.1. Pressure temperature diagram" on page 7)
Process/Port connection & communication	
Port connection	Rp 1/4"...Rp 2" Whitworth thread according to DIN EN 10226 - 1 (old DIN 2999), Weld end (universal, applicable to different welding standards), DIN flange according to EN 1091 - 1 and EN 558 - 1 series 1-F1
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](#)

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3 | 9

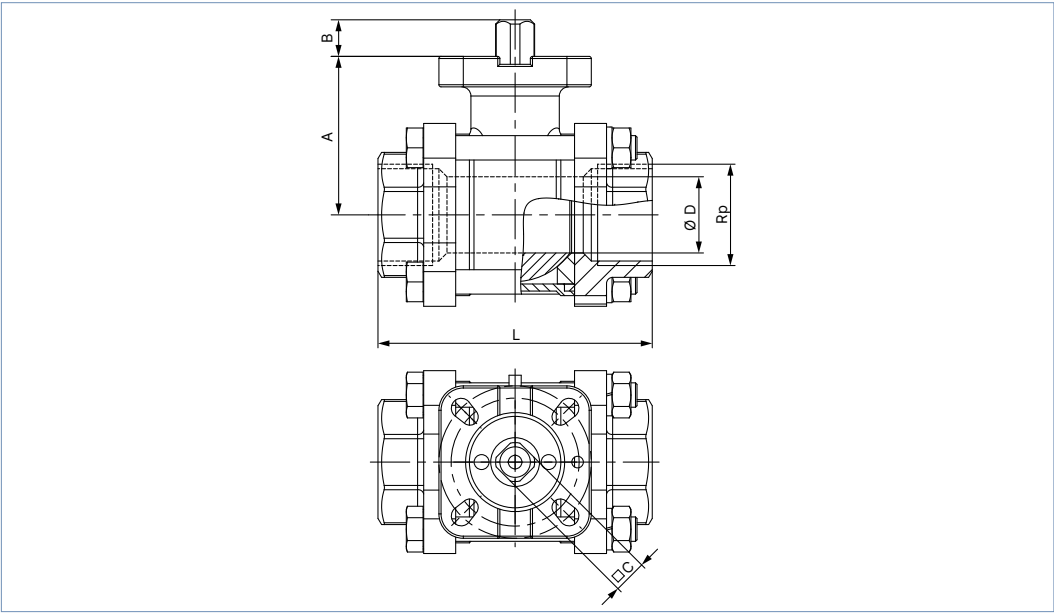
Type 2654



4. Dimensions

4.1. Threaded variant (PN 63)

Note:
Further information on 3-piece ball valves with hand lever (but without ISO 5211 flange) can be found in data sheet
Type TKU001 | 002 | 003 | 004 ▶



DN	Rp [inch]	D [mm]	L [mm]	A [mm]	B [mm]	C [mm]	Interface acc. to ISO 5211	Article no.
10	¼	10	65	40	7	9	F03/F04	185994 
12	⅜	12	65	40	7	9	F03/F04	185995 
15	½	16	75	40	7	9	F03/F04	185996 
20	¾	20	80	44	7	9	F03/F04	185997 
25	1	25	90	52	12	11	F04/F05	185998 
32	1¼	32	110	58	12	11	F04/F05	185999 
40	1½	40	120	68	16	14	F05/F07	186000 
50	2	50	140	77	16	14	F05/F07	186001 
65	2½	65	185	98	19	17	F07/F10	186002 
80	3	80	205	110	19	17	F07/F10	186003 
100	4	100	240	138	24	22	F10	217975 

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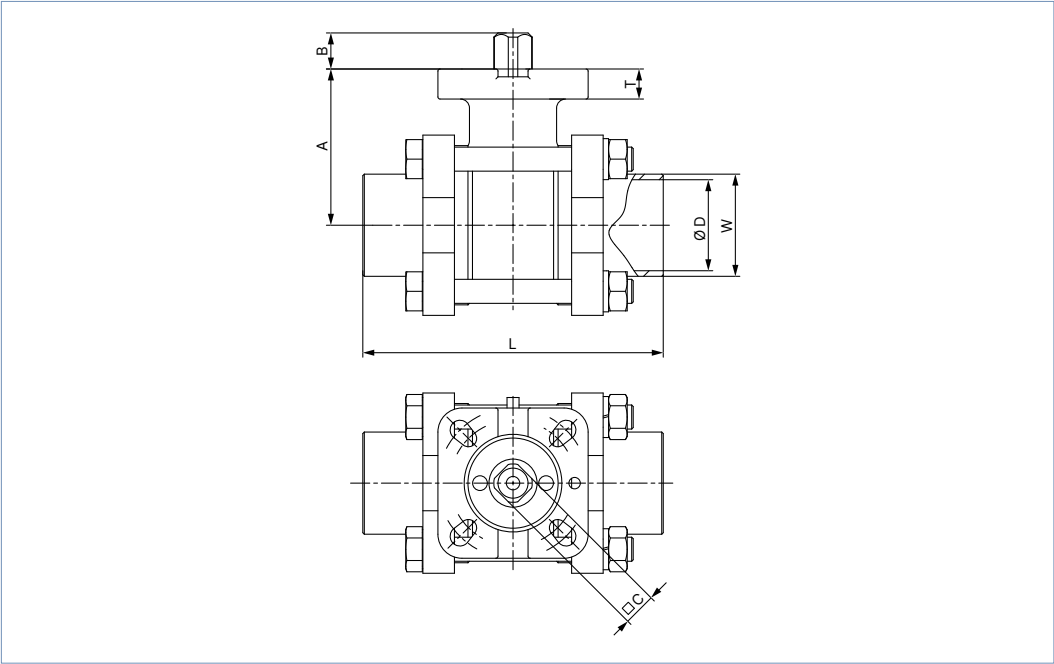
Type 2654



4.2. Weld end variant (PN 63)

Note:

- Universally applicable to different welding standards
- Further information on 3-piece ball valves with hand lever (but without ISO 5211 flange) can be found in data sheet **Type TKU001100210031004** ▶



DN	W [mm]	D [mm]	L [mm]	A [mm]	B [mm]	C [mm]	Interface acc. to ISO 5211	Article no.
12	19.3	12	75	40	9	9	F03/F04	186004 
15	23.3	16	75	40	9	9	F03/F04	186005 
20	28.2	20	90	44	9	9	F03/F04	186006 
25	33.8	25	100	52	12	11	F04/F05	186007 
32	41.1	32	110	58	12	11	F04/F05	186008 
40	49	40	125	68	16	14	F05/F07	186009 
50	62	50	150	77	16	14	F05/F07	186010 
65	78	65	190	98	19	17	F07/F10	205429 
80	94.3	80	220	110	19	17	F07/F10	203221 
100	125.2	100	270	138	24	22	F10	203222 

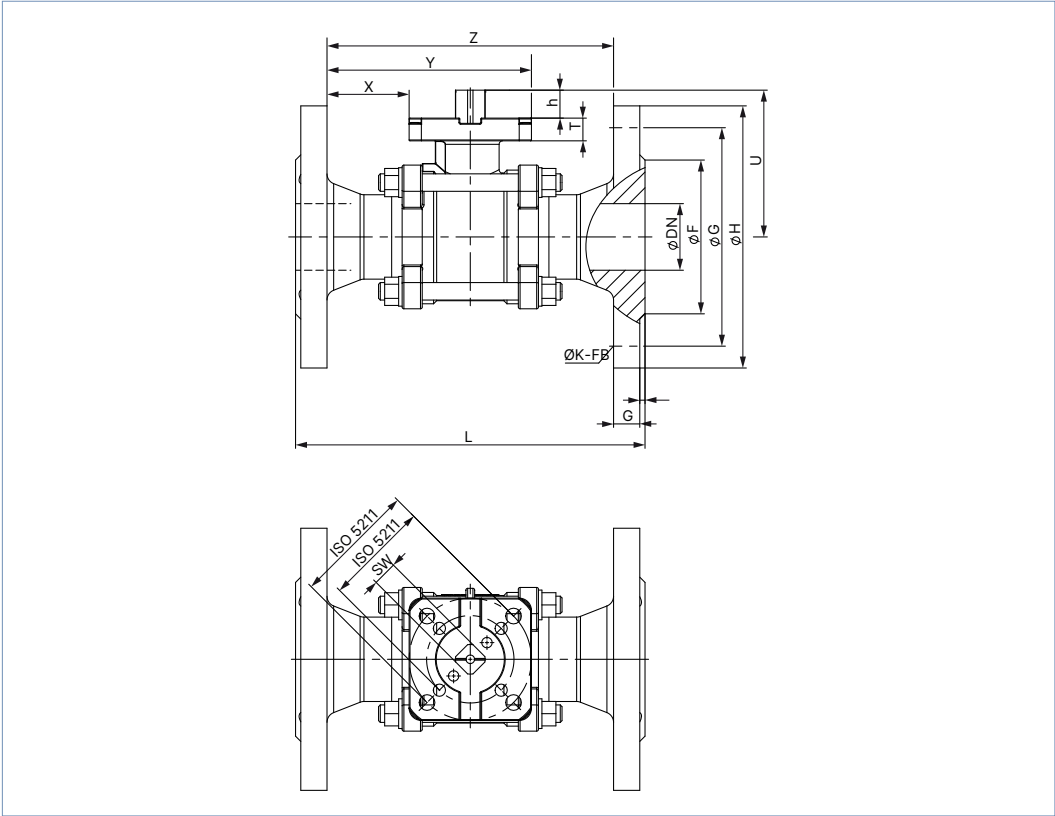
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Type 2654



4.3. Flange variant (PN 40)

Note:
DIN flange according to EN 1091 -1 and EN 558 -1 series 1-F1 (PN 40)



DN	L	Ø F	Ø G	Ø H	U	T	h	G	D	X	Y	Z	Ø K	FB	SW	Interface acc. to ISO 5211	Article no.
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	[mm]		
15	130	45	65	95	47	9	7	16	2	26.5	70.5	97	M14	4	9	F03/F04	276604 ☞
20	150	58	75	105	53	9	9	18	2	34.5	78.5	113	M14	4	9	F03/F04	20028371 ☞
25	160	68	85	115	64	10	12	18	2	36.5	86.5	123	M14	4	11	F04/F05	273904 ☞
32	180	78	100	140	70	10	12	18	2	47	96.5	144	M18	4	11	F04/F05	263482 ☞
40	200	88	110	150	84	13	16	18	3	46	117	163	M18	4	14	F05/F07	288136 ☞
50	230	102	125	165	93	13	16	20	3	59	130	189	M18	4	14	F05/F07	189274 ☞
65	290	122	145	185	117	13	19	22	3	71	173	244	M18	8	17	F07/F10	276605 ☞
80	310	138	160	200	129	13	19	24	3	79	181	260	M18	8	17	F07/F10	204804 ☞
100	350	162	190	235	162	20	24	24	3	99	201	300	M22	8	22	F10	289476 ☞

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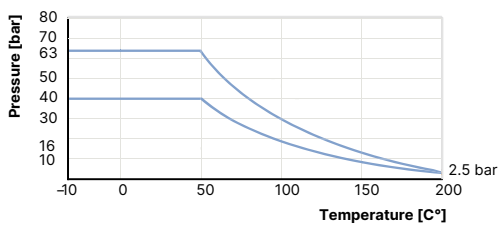
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5. Performance specifications

5.1. Pressure temperature diagram

For general industrial use



5.2. Torques

Torques											
DN [mm]	8	10	15	20	25	32	40	50	65	80	100
Breakaway torque [Nm]	6	6	10	14	17	24	29	44	78	112	140
Running torque [Nm]	4	4	7	9	11	16	19	30	52	89	112

6. Product accessories

6.1. Wearing part set for ball valve Type 2654

Note:

Further ordering information can be found in chapter ["Wearing part set for ball valve Type 2654" on page 8.](#)

Description	Quantity	Material
V-packing/V-seal	4	PTFE
O-ring	1	FKM
Thrust collar	1	PTFE
Ball seal	2	PTFE
Body gasket	2	PTFE

6.2. Lever for ball valve Type 2654

Note:

- Further ordering information can be found in chapter ["Lever for ball valve Type 2654" on page 9.](#)
- The cast iron hand lever, screw and travel stop included, is made of stainless steel 1.4408/316.

DTS 1000202400 EN Version: M Status: RL (released | freigegeben | valide) printed: 20.12.2024

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Type 2654



7. Ordering information

7.1. Bürkert eShop



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7.2. Bürkert product filter



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7.3. Ordering chart threaded variant

Note:
Further information can be found in chapter “4.1. Threaded variant (PN 63)” on page 4.

7.4. Ordering chart weld end variant

Note:
Further information can be found in chapter “4.2. Weld end variant (PN 63)” on page 5.

7.5. Ordering chart accessories

Wearing part set for ball valve Type 2654

Note:
Further information can be found in chapter “6.1. Wearing part set for ball valve Type 2654” on page 7.

DN [mm]	Article no.
10	773127 
12	770180 
15	789821 
20	789822 
25	789823 
32	789824 
40	789825 
50	789826 
65	789827 
80	789828 
100	789829 

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Type 2654



Lever for ball valve Type 2654

DN	Article no.
[mm]	
10...20	770161 
25...32	789897 
40...50	789671 
65...80	770162 
100	770163 

DTS 1000202400 EN Version: M Status: RL (released | freigegeben | valide) printed: 20.12.2024

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