



## Manually operated 2 and 3-way ball valves

- Various types of valve bodies
- Full bore
- Can also be supplied with DVGW approval



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

### Type description

Manual ball valve in brass and stainless steel for shutting off and distributing medium flows.

### Versions

- Manual shut-off ball valve, full bore
- Ball valve DVGW approved
- Mini lux ball valve with rotary wing
- Ball valve with rotary wing, full bore
- 3-way ball valve with L or T bore
- Stainless steel ball valve

## Table of contents

<b>1. General Technical Data</b>	<b>3</b>
<b>2. Dimensions</b>	<b>3</b>
<b>3. Ordering information</b>	<b>3</b>
3.1. Bürkert eShop – Easy ordering and quick delivery.....	3
3.2. Bürkert product filter.....	3
3.3. Ordering chart 2- and 3 way ball valves, brass housing.....	4
Manual shut-off ball valve, full bore, internal thread.....	4
Ball valve, DVGW approval (DIN DVGW-NG-4312BU0103), full bore.....	4
Mini lux ball valve with rotary wing, internal thread.....	4
Mini lux ball valve with rotary wing, internal and external thread.....	5
Ball valve with rotary wing, full bore, internal thread.....	5
3-way ball valve with L or T bore, full bore.....	5
3.4. Ordering chart 2- and 3-way ball valves, stainless steel body.....	6
3-way ball valve with L or T bore, reduced flow with flange mounting, ISO 5211 and hand lever.....	7
3-piece, threaded port.....	8
3-piece, butt weld connection.....	8

## 1. General Technical Data

### Product properties

Dimensions Detailed information can be found in chapter [“3. Ordering information” on page 3.](#)

### Materials

Body	Brass, nickel-plated Stainless steel
Ball	Brass, hard chrome plated Stainless steel
Seal	PTFE
Nominal diameter	DN6...DN100

### Performance data

Pressure range <sup>1.)</sup>	Technical vacuum (10...3 Torr) up to nominal pressure PN (Detailed information can be found in chapter <a href="#">“3. Ordering information” on page 3.</a> )
Temperature range	Detailed information can be found in chapter <a href="#">“3. Ordering information” on page 3.</a>

1.) Pressure data: Overpressure to atmospheric pressure

## 2. Dimensions

All dimensions can be found in chapter [“3. Ordering information” on page 3.](#)

## 3. Ordering information

### 3.1. Bürkert eShop – Easy ordering and quick delivery



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### 3.2. Bürkert product filter



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### 3.3. Ordering chart 2- and 3 way ball valves, brass housing

#### Manual shut-off ball valve, full bore, internal thread

**Note:**

A temperature range applies to all the following values: -20... +160 °C

TKU004	Materials	DN	Port con.	L	K <sub>v</sub> value	PN (80 °C)	Article no.
		[mm]		[mm]	[m <sup>3</sup> /h]	[bar]	
	<b>Body:</b> Brass, nickel-plated <b>Ball:</b> Brass, hard chrome plated <b>Seal:</b> PTFE <b>Lever:</b> Aluminium, plastic coated	8	¼"	51.5	5.4	64	780230
		10	⅜"	51.5	6.0	64	780231
		15	½"	55.0	16.3	30	780232
		20	¾"	57.0	29.5	30	780233
		25	1"	69.5	43.0	30	780234
		32	1¼"	81.5	89	25	781746
		40	1½"	95	230	25	781747
		50	2"	113	265	25	781748

#### Ball valve, DVGW approval (DIN DVGW-NG -4312BU0103), full bore

**Note:**

A temperature range applies to all the following values: -20... +60 °C

TKU004	Materials	DN	Port con.	L	K <sub>v</sub> value	PN	Article no.
		[mm]		[mm]	[m <sup>3</sup> /h]	[bar]	
	<b>Body:</b> Brass, nickel-plated <b>Ball:</b> Brass, hard chrome plated <b>Seal:</b> PTFE <b>Lever:</b> Aluminium, anodized, yellow coated	10	¼"	47.5	5.4	5	773239
		10	⅜"	49.5	6	5	773240
		15	½"	65.0	16.3	5	773241
		20	¾"	73.5	29.5	5	773242
		25	1"	86.5	43	5	773243
		32	1¼"	101.5	89	5	773244
		40	1½"	111.5	230	5	773245
		50	2"	132.5	265	5	773246

#### Mini lux ball valve with rotary wing, internal thread

**Note:**

A temperature range applies to all the following values: -20... +90 °C

TKU004	Materials	DN	Port con.	L	K <sub>v</sub> value	PN	Article no.
		[mm]		[mm]	[m <sup>3</sup> /h]	[bar]	
	<b>Body:</b> Brass, nickel-plated <b>Ball:</b> Brass, hard chrome plated <b>Seal:</b> PTFE	6	⅛"	41	4.3	10	781653
		8	¼"	41	4.3	10	781654
		10	⅜"	41	4.3	10	781655
		15	½"	46	4.3	10	781656

**Mini lux ball valve with rotary wing, internal and external thread**

**Note:**

A temperature range applies to all the following values: -20... +90 °C

TKU004	Materials	DN	Port con.	L	K <sub>v</sub> value	PN	Article no.
		[mm]		[mm]	[m <sup>3</sup> /h]	[bar]	
	<b>Body:</b> Brass, nickel-plated <b>Ball:</b> Brass, hard chrome plated <b>Seal:</b> PTFE	8	1/8"	41	4.3	10	781657
		8	1/4"	41	4.3	10	781658
		10	3/8"	41	2.7	10	781659
		15	1/2"	46	5.4	10	781660

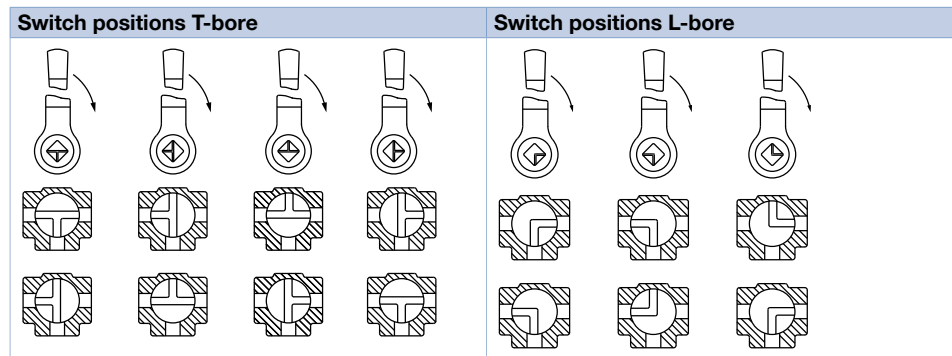
**Ball valve with rotary wing, full bore, internal thread**

**Note:**

A temperature range applies to all the following values: -20... +160 °C

TKU004	Materials	DN	Port con.	L	M	K <sub>v</sub> value	PN	Article no.
		[mm]		[mm]	[mm]	[m <sup>3</sup> /h]	[bar]	
	<b>Body:</b> Brass, nickel-plated <b>Ball:</b> Brass, hard chrome plated <b>Seal:</b> PTFE <b>Lever:</b> Aluminium	8	1/4"	51.5	50	5.4	64	781752
		10	3/8"	51.5	50	6.0	64	781753
		15	1/2"	55	50	16.3	30	781754
		20	3/4"	57.5	64	29.5	30	781755
		25	1"	69.5	94	43	30	781756

**3-way ball valve with L or T bore, full bore**



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**Note:**

A temperature range applies to all the following values: -20... + 160 °C

TKU004	Materials	DN	Port con.	L	K <sub>v</sub> value	PN	Article no. L-bore
		[mm]		[mm]	[m <sup>3</sup> /h]	[bar]	
	<b>Body:</b> Brass, nickel-plated <b>Ball:</b> Brass, hard chrome plated <b>Seal:</b> PTFE <b>Lever:</b> Aluminium	8	1/4"	80.5	2.8	40	781762
		10	3/8"	80.5	3	40	781763
		15	1/2"	80.5	3.6	40	781764
		20	3/4"	93.4	6	40	781765
		25	1"	107.3	11	25	781766
		32	1 1/4"	118	16	16	781767
		40	1 1/2"	141	25.5	16	781768
		50	2"	169	37.5	16	781769

**Note:**

A temperature range applies to all the following values: -20... + 160 °C

TKU004	Materials	DN	Port con.	L	K <sub>v</sub> value	PN	Article no. T-bore
		[mm]		[mm]	[m <sup>3</sup> /h]	[bar]	
	<b>Body:</b> Nickel-plated brass <b>Ball:</b> Brass hard chrome plated <b>Seal:</b> PTFE <b>Lever:</b> Aluminium	8	1/4"	80.5	3	40	781770
		10	3/8"	80.5	3.5	40	781771
		15	1/2"	80.5	4.3	40	781772
		20	3/4"	93.4	6.6	40	781773
		25	1"	107.3	12.2	25	781774
		32	1 1/4"	118	16.9	16	781775
		40	1 1/2"	141	26.3	16	781776
		50	2"	169	38.2	16	781777

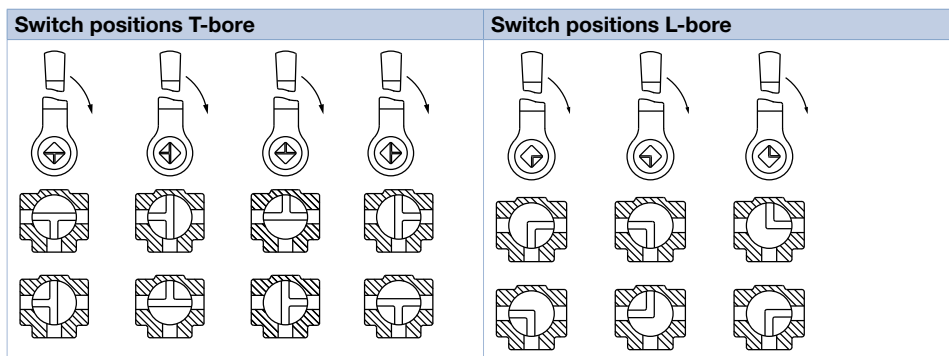
**3.4. Ordering chart 2- and 3-way ball valves, stainless steel body**

**Note:**

A temperature range applies to all the following values: -20... + 160 °C

TKU004	Materials	DN	Port con.	L	K <sub>v</sub> value	PN (80 °C)	Article no.
		[mm]		[mm]	[m <sup>3</sup> /h]	[bar]	
	<b>Body:</b> Stainless steel AISI 351-CF 8M <b>Ball:</b> Stainless steel AISI 351 <b>Seal:</b> PTFE O-ring: FKM <b>Lever:</b> Stainless steel AISI 430	8	1/4"	53.5	5.4	64	781824
		10	3/8"	53.5	6	64	781825
		15	1/2"	60	16.3	64	781826
		20	3/4"	70	29.5	40	781827
		25	1"	79	43	40	781828
		32	1 1/4"	91	89	25	781829
		40	1 1/2"	103	230	25	781830
		50	2"	124	265	25	781831

3-way ball valve with L or T bore, reduced flow with flange mounting, ISO 5211 and hand lever



**Note:**

The following applies to all following values:

- Temperature range: - 10 °C... +200 °C
- Materials:
  - Body: Stainless steel 1.4401
  - Ball: Stainless steel 1.4401
  - Seal: PTFE
  - O-ring: FKM
  - Lever: Stainless steel 1.4301

TKU002 / TKU003	DN	Port con.	L	E	H	K <sub>v</sub> value	PN	Article no. L-bore	Article no. T-bore
	[mm]		[mm]	[mm]	[mm]	[m <sup>3</sup> /h]	[bar]		
	11	¼"	80.5	114	73	2.8	63	789439	789446
	12	⅜"	80.5	114	73	3	63	789493	789447
	12	½"	80.5	114	73	3.6	63	789331	789448
	15	¾"	88	133	78	6	63	789441	789449
	20	1"	100	133	83	11	63	789442	789397
	25	1¼"	123	187	92	16	63	789443	789450
	32	1½"	140	187	98	25.5	63	789444	789451
	40	2"	170	187	126	37.5	63	789445	789452

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**3-piece, threaded port**

**Note:**

A temperature range applies to all the following values: - 10 °C... + 200 °C

TKU001	Materials	DN	Port con.	L	H	W	K <sub>v</sub> value	PN	Article no.
		[mm]		[mm]	[mm]	[mm]	[m <sup>3</sup> /h]	[bar]	
	<b>Body:</b> Stainless steel 1.4408 <b>Ball:</b> Stainless steel 1.4401 <b>Seal:</b> PTFE <b>O-ring:</b> FKM <b>Lever:</b> Stainless steel 1.4301	8	¼"	60	55	97.5	5.4	63	789453
		10	⅜"	60	55	97.5	6	63	789454
		15	½"	75	64	125.5	16.3	63	789455
		20	¾"	80	67	125.5	29.5	63	789456
		25	1"	90	83	143.5	43	63	789457
		32	1¼"	110	89	143.5	89	63	789458
		40	1½"	120	100	203.5	230	63	789459
		50	2"	140	108	203.5	265	63	789460
		65	2½"	185	150	251.5	540	63	789461
		80	3"	205	161	251.5	880	63	789373
		100	4"	240	180	291.5	1380	63	789463

**3-piece, butt weld connection**

**Note:**

The following applies to all following values:

- Temperature range: - 10 °C... + 200 °C
- Materials:
  - Body: Stainless steel 1.4408
  - Ball: Stainless steel 1.4401
  - Seal: PTFE
  - O-ring: FKM
  - Lever: Stainless steel 1.4301

TKU001	DN	F	L	H	W	K <sub>v</sub> value	PN (80 °C)	Article no.
	[mm]	[mm]	[mm]	[mm]	[mm]	[m <sup>3</sup> /h]	[bar]	
	8	12.5	65	55	97.5	5.4	63	789464
	10	15	70	55	97.5	6	63	789465
	15	18	75	64	125.5	16.3	63	789430
	20	22	90	67	125.5	29.5	63	789467
	25	28	100	83	143.5	43	63	789468
	32	35	110	89	143.5	89	63	789469
	40	43	125	100	203.5	230	63	789470
	50	54	150	108	203.5	265	63	789471
	65	69	190	150	251.5	540	63	789472
	80	84	220	161	251.5	880	63	789473
	100	104	270	180	291.5	1380	63	789474

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