DATA SHEET

Type TKU001

Manually operated ball valves

Manually operated 2-way ball valves and 3-way ball valves

- Various types of valve bodies
- Full bore

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

Type description

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

Variants:

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

DTS 1000110445 EN Version: Q Status: RL (released | freigegeben | valide) printed: 08.07.2025

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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 "5. Ordering information" on page 4.
Material	
Seal	PTFE
Body	Nickel-plated brass and stainless steel
Ball	Hard chrome-plated brass and stainless steel
Nominal diameter	DN 6...DN 100
Performance data	
Pressure range [1.)]	Technical vacuum (10...3 Torr) up to nominal pressure PN Further information can be found in chapter "5. Ordering information" on page 4.
Temperature range	Further information can be found in chapter "5. Ordering information" on page 4.

1.) Pressure data: overpressure to atmospheric pressure

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

All dimensions can be found in chapter "5. Ordering information" on page 4.

5. Ordering information

5.1. 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

5.2. 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

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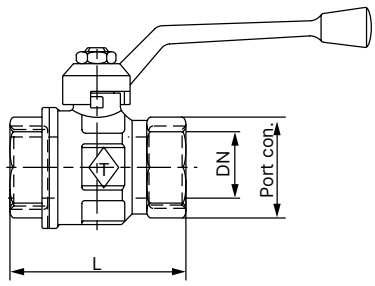
5.3. Ordering chart 2-way ball valves and 3-way ball valves with brass housing

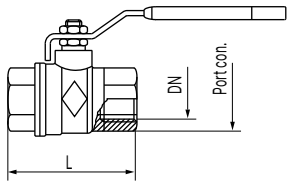
Manual shut-off ball valve with full bore and internal thread

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

TKU004	Material	DN	Port conn.	L	K_V value	PN	Article no.
			[inch]	[mm]	[m³/h]	[bar]	
	**Body:** Nickel-plated brass **Ball:** Hard chrome-plated brass **Seal:** PTFE **Lever:** Plastic-coated aluminium	8	¼	51.5	5.4	64	780230
		10	⅜	51.5	6	64	780231
		15	½	55	16.3	30	780232
		20	¾	57	29.5	30	780233
		25	1	69.5	43	30	780234
		32	1¼	81.5	89	25	781746
		40	1½	95	230	25	781747
		50	2	113	265	25	781748

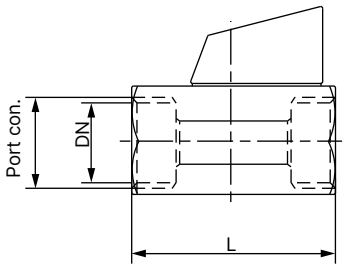
Ball valve with full bore

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

TKU004	Material	DN	Port conn.	L	K_V value	PN	Article no.
			[inch]	[mm]	[m³/h]	[bar]	
	**Body:** Nickel-plated brass **Ball:** Hard chrome-plated brass **Seal:** PTFE **Lever:** Yellow-coated anodised aluminium	10	¼	47.5	5.4	5	773239
		10	⅜	49.5	6	5	773240
		15	½	65	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 and internal thread

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

TKU004	Material	DN	Port conn.	L	K_V value	PN	Article no.
			[inch]	[mm]	[m³/h]	[bar]	
	**Body:** Nickel-plated brass **Ball:** Hard chrome-plated brass **Seal:** 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

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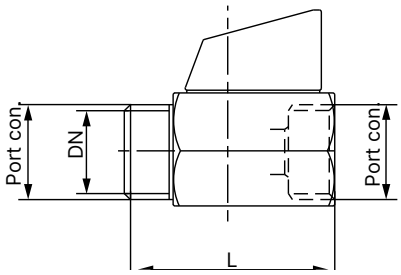
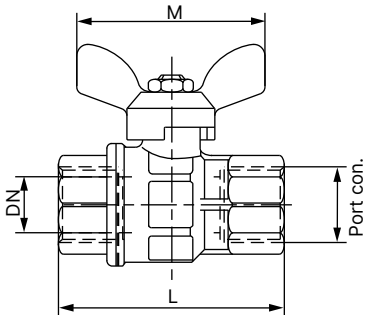
Mini lux ball valve with rotary wing, internal thread and external thread

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

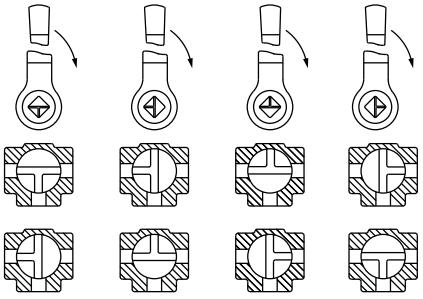
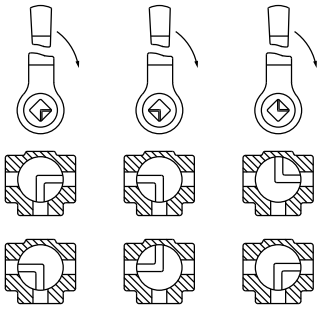
TKU004	Material	DN	Port conn.	L	K_V value	PN	Article no.
			[inch]	[mm]	[m³/h]	[bar]	
	**Body:** Nickel-plated brass **Ball:** Hard chrome-plated brass **Seal:** PTFE	8	⅛	41	4.3	10	781657
		8	¼	41	4.3	10	781658
		10	⅜	41	2.7	10	781659
		15	½	46	5.4	10	781660

Ball valve with rotary wing, full bore and internal thread

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

TKU004	Material	DN	Port conn.	L	M	K_V value	PN	Article no.
			[inch]	[mm]	[mm]	[m³/h]	[bar]	
	**Body:** Nickel-plated brass **Ball:** Hard chrome-plated brass **Seal:** PTFE **Lever:** Aluminium	8	¼	51.5	50	5.4	64	781752
		10	⅜	51.5	50	6	64	781753
		15	½	55	50	16.3	30	781754
		20	¾	57.5	64	29.5	30	781755
		25	1	69.5	94	43	30	781756

3-way ball valve with L-bore or T-bore and full bore

Switch positions: T-bore	Switch positions: L-bore
	

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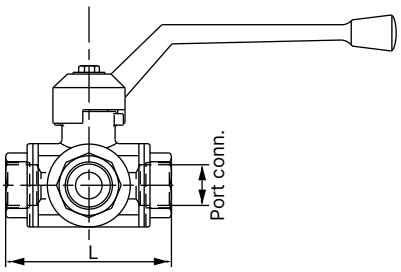
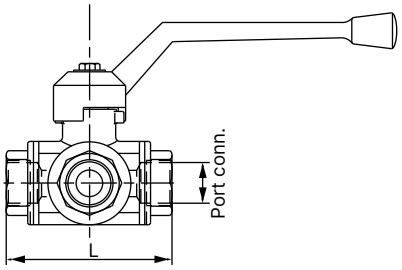
Note:
The following temperature range applies to all the following values: - 20...+ 160 °C.

TKU004	Material	DN	Port conn.	L	K_V value	PN	Article no. L-bore
			[inch]	[mm]	[m³/h]	[bar]	
	**Body:** Nickel-plated brass **Ball:** Hard chrome-plated brass **Seal:** PTFE **Lever:** Aluminium	8	¼	80.5	2.8	40	781762
		10	⅜	80.5	3	40	781763
		15	½	80.5	3.6	40	781764
		20	¾	93.4	6	40	781765
		25	1	107.3	11	25	781766
		32	1¼	118	16	16	781767
		40	1½	141	25.5	16	781768
		50	2	169	37.5	16	781769

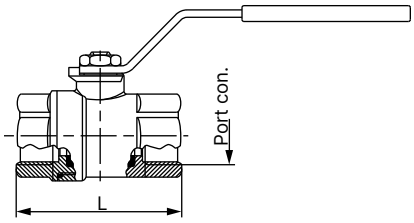
Note:
The following temperature range applies to all the following values: - 20...+ 160 °C.

TKU004	Material	DN	Port conn.	L	K_V value	PN	Article no. T-bore
			[inch]	[mm]	[m³/h]	[bar]	
	**Body:** Nickel-plated brass **Ball:** Hard chrome-plated brass **Seal:** PTFE **Lever:** Aluminium	8	¼	80.5	3	40	781770
		10	⅜	80.5	3.5	40	781771
		15	½	80.5	4.3	40	781772
		20	¾	93.4	6.6	40	781773
		25	1	107.3	12.2	25	781774
		32	1¼	118	16.9	16	781775
		40	1½	141	26.3	16	781776
		50	2	169	38.2	16	781777

5.4. Ordering chart 2-way ball valves and 3-way ball valves with stainless steel body

2-way manually operated ball valve

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

TKU004	Material	DN	Port conn.	L	K_V value	PN	Article no.
			[inch]	[mm]	[m³/h]	[bar]	
	**Body:** Stainless steel 1.4408/351 **Ball:** Stainless steel 1.4408/351 **Seal:** PTFE **O-ring:** FKM **Lever:** Stainless steel 1.4016/430	8	¼	53.5	5.4	64	781824
		10	⅜	53.5	6	64	781825
		15	½	60	16.3	64	781826
		20	¾	70	29.5	40	781827
		25	1	79	43	40	781828
		32	1¼	91	89	25	781829
		40	1½	103	230	25	781830
		50	2	124	265	25	781831

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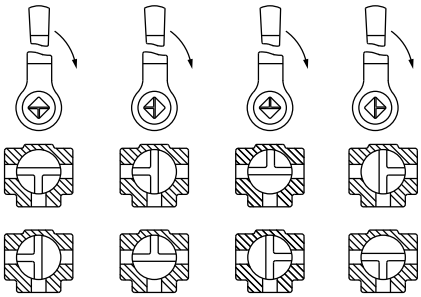
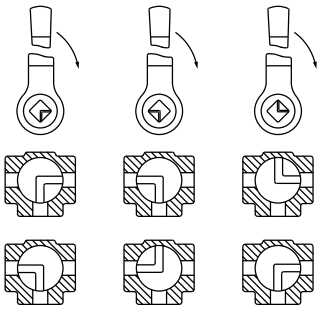
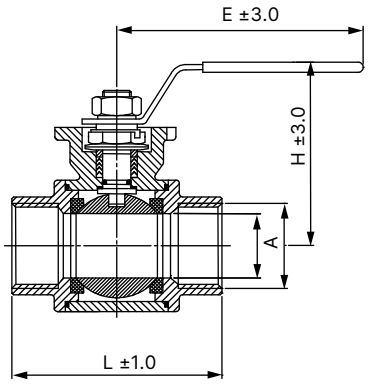
3-way ball valve with L-bore or T-bore, reduced flow with flange mounting, ISO 5211 and hand lever

Switch positions: T-bore	Switch positions: L-bore
	

Note:
The following applies to all following values:

- Temperature range: - 10 °C...+ 200 °C
- Material:
  - Body: stainless steel 1.4401/316
  - Ball: stainless steel 1.4401/316
  - Seal: PTFE
  - O-ring: FKM
  - Lever: stainless steel 1.4301/304

TKU002 and TKU003	DN	Port conn.	L	E	H	K_v value	PN	Article no. L-bore	Article no. T-bore
		[inch]	[mm]	[mm]	[mm]	[m³/h]	[bar]		
	8	¼	80	114	73	2.8	63	789439	789446
	10	⅜	80	114	73	3	63	789493	789447
	15	½	80	114	73	3.6	63	789331	789448
	20	¾	88	133	78	6	63	789441	789449
	25	1	100	133	83	11	63	789442	789397
	32	1¼	122	187	92	16	63	789443	789450
	40	1½	141	187	98	25.5	63	789444	789451
	50	2	171	187	126	37.5	63	789445	789452

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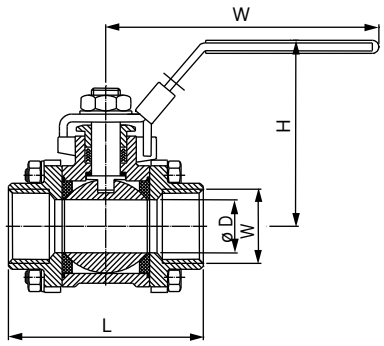
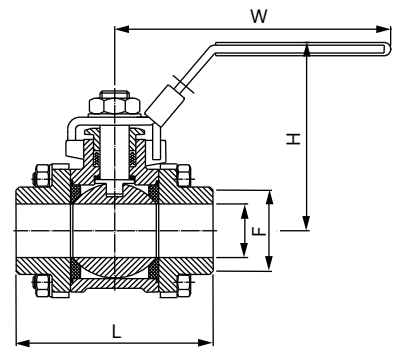
3-piece ball valve with threaded port

Note:
The following applies to all following values:
- Temperature range: - 10 °C...+ 200 °C
- Material:
  - Body: stainless steel 1.4408/316
  - Ball: stainless steel 1.4401/316
  - Seal: PTFE
  - O-ring: FKM
  - Lever (locking device as an option): stainless steel 1.4301/304

TKU001	DN	Port conn.	L	H	W	K_v value	PN	Article no.	
		[inch]	[mm]	[mm]	[mm]	[m³/h]	[bar]	With normal lever	With lockable lever
	8	¼	60	55	97.5	5.4	63	789453	773600
	10	⅜	60	55	97.5	6	63	789454	773601
	15	½	75	64	125.5	16.3	63	789455	771089
	20	¾	80	67	125.5	29.5	63	789456	773087
	25	1	90	83	143.5	43	63	789457	773602
	32	1¼	110	89	143.5	89	63	789458	773603
	40	1½	120	100	203.5	230	63	789459	773604
	50	2	140	108	203.5	265	63	789460	773605
	65	2½	185	150	251.5	540	63	789461	773606
	80	3	205	161	251.5	880	63	789373	773607
	100	4	240	180	291.5	1380	63	789463	773608

3-piece ball valve with welded connection

Note:
The following applies to all following values:
- Temperature range: - 10 °C...+ 200 °C
- Material:
  - Body: stainless steel 1.4408/316
  - Ball: stainless steel 1.4401/316
  - Seal: PTFE
  - O-ring: FKM
  - Lever (locking device as an option): stainless steel 1.4301/304

TKU001	DN	F	L	H	W	K_v value	PN	Article no.	
		[mm]	[mm]	[mm]	[mm]	[m³/h]	[bar]	With normal lever	With lockable lever
	8	12.5	65	55	97.5	5.4	63	789464	773595
	10	15	70	55	97.5	6	63	789465	773596
	15	18	75	64	125.5	16.3	63	789430	771073
	20	22	90	67	125.5	29.5	63	789467	771091
	25	28	100	83	143.5	43	63	789468	771092
	32	35	110	89	143.5	89	63	789469	771074
	40	43	125	100	203.5	230	63	789470	771093
	50	54	150	108	203.5	265	63	789471	771094
	65	69	190	150	251.5	540	63	789472	773597
	80	84	220	161	251.5	880	63	789473	773598
	100	104	270	180	291.5	1380	63	789474	773599

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