

DATA SHEET

Type TKU001



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



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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 ^{1.)}	Technical vacuum (10...3 Torr) up to nominal pressure PN (Detailed information can be found in chapter “3. Ordering information” on page 3.)
Temperature range	Detailed information can be found in chapter “3. Ordering information” on page 3.

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 _v value	PN (80 °C)	Article no.
		[mm]		[mm]	[m ³ /h]	[bar]	
	Body: Brass, nickel-plated Ball: Brass, hard chrome plated Seal: PTFE Lever: 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 _v value	PN	Article no.
		[mm]		[mm]	[m ³ /h]	[bar]	
	Body: Brass, nickel-plated Ball: Brass, hard chrome plated Seal: PTFE Lever: 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 _v value	PN	Article no.
		[mm]		[mm]	[m ³ /h]	[bar]	
	Body: Brass, nickel-plated Ball: Brass, hard chrome plated 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

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 _v value	PN	Article no.
		[mm]		[mm]	[m ³ /h]	[bar]	
	Body: Brass, nickel-plated Ball: Brass, hard chrome plated Seal: 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

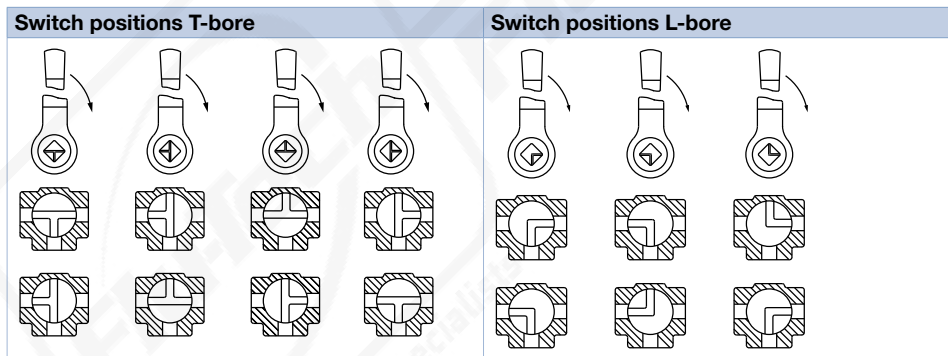
Ball valve with rotary wing, full bore, internal thread

Note:

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

TKU004	Materials	DN	Port con.	L	M	K _v value	PN	Article no.
		[mm]		[mm]	[mm]	[m ³ /h]	[bar]	
	Body: Brass, nickel-plated Ball: Brass, hard chrome plated Seal: PTFE Lever: 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



Note:

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

TKU004	Materials	DN	Port con.	L	K _v value	PN	Article no. L-bore
		[mm]		[mm]	[m ³ /h]	[bar]	
	Body: Brass, nickel-plated Ball: Brass, hard chrome plated 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:

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

TKU004	Materials	DN	Port con.	L	K _v value	PN	Article no. T-bore
		[mm]		[mm]	[m ³ /h]	[bar]	
	Body: Nickel-plated brass Ball: Brass hard chrome plated 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

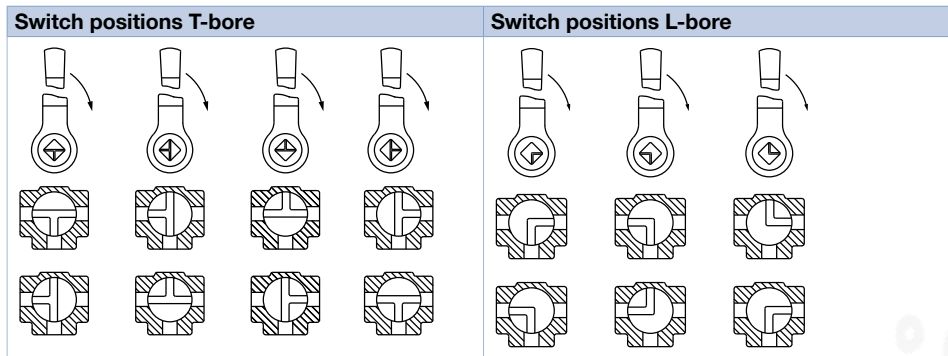
3.4. Ordering chart 2- and 3-way ball valves, stainless steel body

Note:

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

TKU004	Materials	DN	Port con.	L	K _v value	PN (80 °C)	Article no.
		[mm]		[mm]	[m ³ /h]	[bar]	
	Body: Stainless steel AISI 351-CF 8M Ball: Stainless steel AISI 351 Seal: PTFE O-ring: FKM Lever: Stainless steel AISI 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

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 _v value	PN	Article no. L-bore	Article no. T-bore
	[mm]		[mm]	[mm]	[mm]	[m ³ /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:

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 (locking device as an option): Stainless steel 1.4301

TKU001	DN	Port con.	L	H	W	K _v value	PN	Article no.	
	[mm]		[mm]	[mm]	[mm]			[m ³ /h]	[bar]
	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, 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 (locking device as an option): Stainless steel 1.4301

TKU001	DN	F	L	H	W	K _v value	PN (80 °C)	Article no.	
	[mm]	[mm]	[mm]	[mm]	[mm]			[m ³ /h]	[bar]
	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