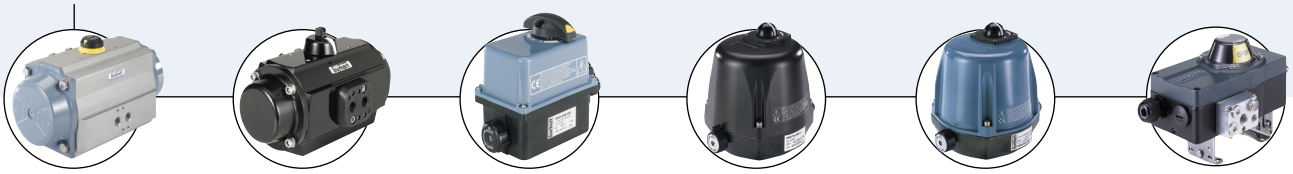
bürkert
FLUID CONTROL SYSTEMS



2/2 way Flanged Ball Valve in stainless steel, 2 pieces, DN15 - DN200

- Low torques
- Maintenance friendly
- High flow rate
- Anti-Static
- ISO 5211 head flange

Type 2651 Flange can be combined with ...



Type 2051
Pneumatic actuator

Type 2052
Pneumatic actuator

Type 3003
Electric actuator

Type 3004
Electric actuator

Type 3005
Electric actuator

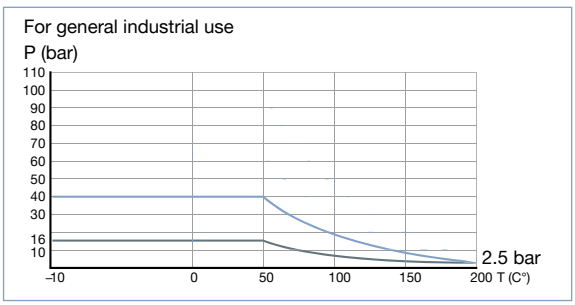
Type 1061
Position feedback

2/2 way Flanged Ball Valves in stainless steel used for separating medium flow. The ball valves are equipped with a manual lever. However, they can be connected via the mechanical interface (acc. to ISO 5211) with pneumatic (for example, type 2051 or 2052) and electrical rotary actuators (for example, type 3003, 3004 or 3005), too. The final position of pneumatically actuated ball valves can be checked via the position feedback box 1061.
Next to this, the valves are available with different standardized face-to-face dimensions (EN 558-1 series 1; EN 558-1 series 27).

Further features and benefits are:
- High flow-rate
- Low torques
- Maintenance friendly
- Anti-static ball valve
- Fire Safe Design (DN15-DN100)

Technical data	
Orifice	DN15 up to 200
Body material	Stainless steel 1.4408
Ball material	Stainless steel 1.4401
Selector shaft material	Stainless steel 1.4401
Seal material	PTFE (Ball seal)
Medium temperature	-10 °C to 200 °C (see Pressure Temperature Chart)
Medium pressure	16 bar, 40 bar (see Pressure Temperature Chart) Max. 6 bar for steam with graphite reinforced PTFE-seal (option)
Port connections	DIN - Flange acc. EN 1092-1 ANSI - Flange acc. ANSI/ASME B16.5
Face-to-face dimension	DN15-DN100: F4 (EN 558-1 series 27) or F1 (EN 558-1 row 1) DN125-DN200: F5 (EN 558-1 series 27)
ISO head flange	EN ISO 5211
Conformity	TA-Luft Pressure Equipment Directive 97/23/EC (PED)

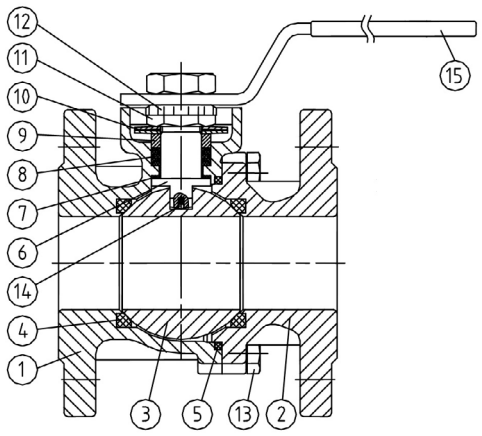
Pressure Temperature Chart



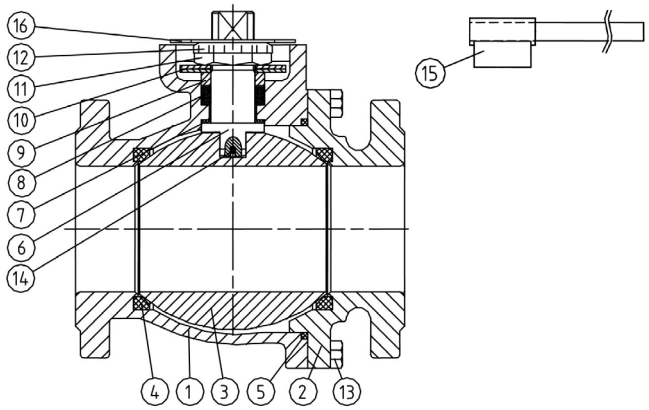
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Materials

DN15-DN100



DN125-DN200



Pos	BOM	Qty	Material
1	Body I	1	1.4408
2	Body II (DN15-DN100), End cap (DN125-DN200)	1	1.4408
3	Ball	1	1.4401
4	Seat	2	PTFE reinforced
5	Body seal	1	PTFE
6	Stem	1	1.4401
7	Bearing	1	PTFE reinforced
8	Stem packing	1 Set	PTFE / PTFE conductive
9	Thrust washer	1	1.4401
10	Spring	2	1.4310
11	Stem nut	1	A2-70
12	Lock washer	1	1.4301
13	Hex bolt		A4-70 (DN15-DN100), A2-70 (DN125-DN200)
14	Anti-static-ball	1	1.4401
15	Manual lever	1	1.4301 (with plastic cover) (DN15-DN100), 14308 (DN125-DN200)
16	Stop plate	1	1.4308

Torques – for ball valves with a PN16 pressure rating

DN	15	20	25	32	40	50	65	80	100	125	150	200
Breakaway torque [Nm]	12	14	18	32	42	57	83	120	183	441	583	688
Running torque [Nm]	10	12	16	29	30	38	69	80	122	299	384	456

The values were measured under the following conditions: max. delta P, ambient temperature, medium: water

Torques – for ball valves with a PN40 pressure rating

DN	15	20	25	32	40	50	65	80	100	125	150	200
Breakaway torque [Nm]	18	24	42	63	81	120	210	293	390	882	1166	1376
Running torque [Nm]	16	21	40	55	57	80	160	195	260	598	768	912

The values were measured under the following conditions: max. delta P, ambient temperature, medium: water

Nominal flow - K_V [m³/h]

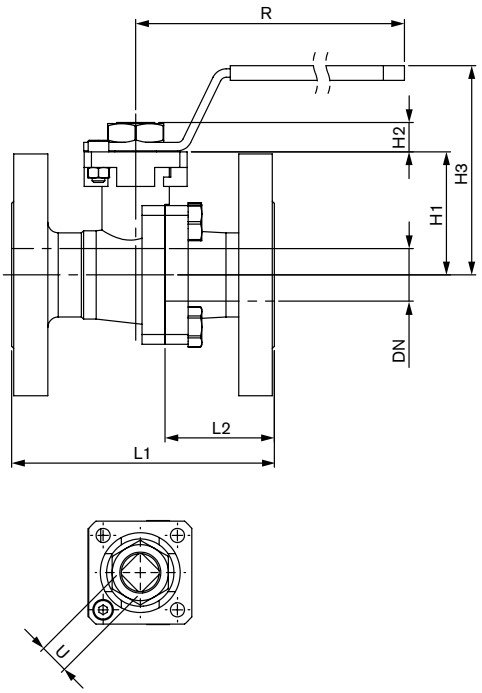
DN	15	20	25	32	40	50	65	80	100	125	150	200
K_{VS} [m³/h]:	19.4	45.6	71.5	105	170	275	507	905	1414	2362	3674	7155

The nominal flow K_{VS} acc. VDI/VDE 2173 indicates the flow in cubic meters per hour, at Δp=1 bar and +15 °C

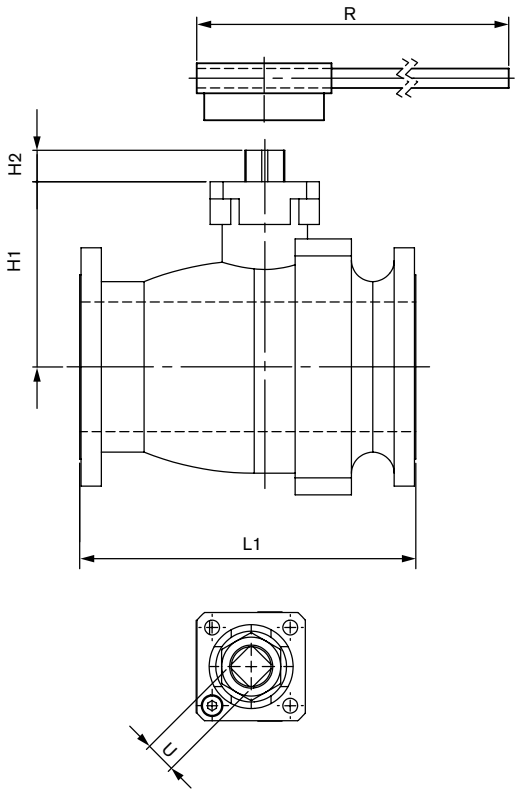
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Dimensions [mm]

DN15-DN100



DN125-DN200



Ordering chart

DIN Flange acc. EN 1091-1 & EN 558-1 series 27 - F4 (DN15-100) | F5 (DN125-200)

Orifice [mm]	L1	L2	H1	H2	H3	R	ISO 5211	U	①	②	Weight [kg] - PN16	Weight [kg] - PN40	Article no. - PN16	Article no. - PN40
15	115	48.5	50	11	92	180	F05	11	4	4	-	2.7	-	772143
20	120	51.5	53.5	11	95.5	180	F05	11	4	4	-	3.4	-	772144
25	125	52	58.5	14	100.5	180	F05	14	4	4	-	4.4	-	772145
32	130	57	71	14	113	180	F05	14	4	4	-	5.6	-	772146
40	140	59	76	17	122.5	300	F07	17	4	4	-	8.1	-	772147
50	150	62	83.5	17	130	300	F07	17	4	4	-	10.7	-	772148
65	170	72	95	17	141.5	300	F07	17	4	8	13.8	14.5	772152	772149
80	180	71.2	113	22	194.5	400	F10	22	8	8	19.6	20.7	772153	772150
100	190	75.5	131	22	212.5	400	F10	22	8	8	26.7	29.7	772154	772151
125	325	-	151.5	22	-	700	F10	22	8	8	45	50	293779	293786
150	350	-	217	37	-	700	F14	36	8	8	70	75	293780	293787
200	400	-	252	37	-	700	F14	36	8	8	120	125	293781	293788

① Number of Flange Drillings - PN16
② Number of Flange Drillings - PN40

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DIN Flange acc. EN 1091-1 & EN 558-1 series 1 - F1

Orifice [mm]	L1	L2	H1	H2	H3	R	ISO 5211	U	①	②	Weight [kg] - PN16	Weight [kg] - PN40	Article no. - PN16	Article no. - PN40
15	130	63.5	50	11	92	180	F05	11	4	4	-	2.7	-	772161
20	150	81.5	53.5	11	95.5	180	F05	11	4	4	-	3.5	-	772162
25	160	87	58.5	14	100.5	180	F05	14	4	4	-	4.5	-	772163
32	180	107	71	14	113	180	F05	14	4	4	-	6	-	772164
40	200	119	76	17	122.5	300	F07	17	4	4	-	8.6	-	772165
50	230	142	83.5	17	130	300	F07	17	4	4	-	11.5	-	772166
65	290	192	95	17	141.5	300	F07	17	4	8	15.3	16.1	772170	772167
80	310	201.2	113	22	194.5	400	F10	22	8	8	21.5	22.6	772171	772168
100	350	235.5	131	22	212.5	400	F10	22	8	8	30.4	33.4	772172	772169

① Number of Flange Drillings - PN16
② Number of Flange Drillings - PN40

ANSI/ASME B16.5 Class 150

Orifice [mm]	L1	L2	H1	H2	H3	R	ISO 5211	U	Number of Flange Drillings	Weight [kg]	Article no.
15	108	41.5	50	11	92	180	F05	11	4	2	772173
20	117	48.5	53.5	11	92.5	180	F05	11	4	2.5	772174
25	127	54	58.5	14	100.5	180	F05	14	4	3.4	772175
32	140	67	71	14	113	180	F05	14	4	4.7	772176
40	165	84	76	17	122.5	300	F07	17	4	7.2	772177
50	178	90	83.5	17	130	300	F07	17	4	10	772178
65	190.5	92.5	95	17	141.5	300	F07	17	4	14.7	772179
80	203	94.2	113	22	194.5	400	F10	22	4	20.4	772180
100	229	114.5	131	22	212.5	400	F10	22	4	31.3	772181
125	325	-	151.5	22	-	700	F10	22	8	52	293774
150	394	-	217	37	-	700	F14	36	8	74	293775
200	457	-	252	37	-	700	F14	36	8	100	293776

ANSI/ASME B16.5 Class 300

Orifice [mm]	L1	L2	H1	H2	H3	R	ISO 5211	U	Number of Flange Drillings	Weight [kg]	Article no.
15	140	73.5	50	12	92	180	F05	11	4	2.5	772182
20	152	83.5	58.7	11	97.7	180	F05	11	4	3.6	772183
25	165	92	62	14	104	180	F05	14	4	4.5	772184
32	178	105	71	15	117	180	F05	14	4	6.1	772185
40	190	109	78	15	124.5	300	F07	17	4	9.7	772186
50	216	128	84.5	17.5	135	300	F07	17	8	11.6	772187
65	241	143	95.5	16.5	142	300	F07	17	8	17	772188
80	282.5	173.7	113	22	198.5	400	F10	22	8	25.1	772189
100	305	190.5	131	23.5	216.5	400	F10	22	8	43.1	772190
150	403	-	217	37	-	700	F14	36	8	124	293777
200	502	-	252	37	-	700	F14	36	8	180	293778

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