Partnership. With Guarantee.

Brass ball valves with pneumatic rotary actuator Series BAB1-...-BLTV

Design type	Ball valve: Full port ball valve with floating ball, full bore passage Actuator: piston actuator with 2 opposed pistons, elastic sealing, actuator in all details in accordance with ISO 5211 or according to NAMUR recommendations, End positions adjustable on both sides +/-5°
Function	available in double-acting or single-acting Version
Connection	RP1/4" ... RP4" according to ISO7/1
Materials Standard version	Ball valve: Body Brass CW617N nickel-plated, Ball Brass CW617N hard chrome-plated, Seals PTFE/FKM/EPDM Actuator: Hard anodized aluminium, Pinion, nickel-plated steel, Piston guide POM, Seals NBR
Application range	Gases and liquids of group 2 according to PED 2014/68/EU that do not attack the materials used.
Medium temperature	-20...+160°C
Ambient temperature	-20...+85°C
Operating pressure	0bar up to Operating pressure according to table and pressure-temperature diagram, not suitable for vacuum
Control medium	filtered and lubricated or non-lubricated compressed air
Control pressure	5,5...8 bar, Adaptation to lower pilot pressures available on request
Mounting type	Installation in rigid piping system
Mounting position	any
Special version	Ball valve: ATEX Ex II 2G/2D c T3 Actuator: ATEX Ex II 2G Ex h IIC T6...T3 Gb / II 2D Ex h IIIC T85°C...T200°C Db Pinion in stainless steel, Ambient temperatures from -40°C...+85°C, or rather -20°C...+150°C
Accessories	assembled manual, pneumatic or electric control valve electrical end position feedback, Positioner in I/P or P/P Version Adjustment of the switching speed
Ordering note	When ordering, please also specify control pressure, operating medium, operating pressure and operating temperature.
Application note	The pressure and temperature specifications are maximum values for normal conditions, for lubricating or non-degreasing media. Degreasing media in particular reduce the specified values and increase the required torque. For these special cases, we recommend prior consultation. When selecting the valve, the lowest control pressure occurring in the system must be taken as the basis.

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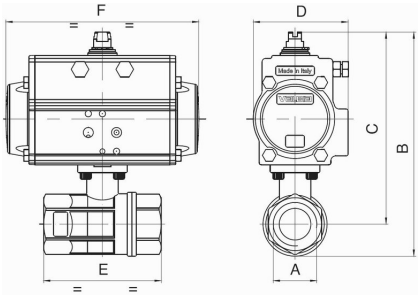
Dimensions



Ball valves with double-acting rotary actuator

Connection A	Nominal size DN[mm]	max. Operating pressure [bar] up to 85°C	B	C	D	E	F	Actuator type	Kv value [m³/h]	Weight [approx. kg]	Type
RP1/4"	8	40	115	98	45	67	110	PAD032	5,4	0,9	BAB1-002-BLTV-D0
RP1/4"	8	40	151,5	134,5	71	67	141	PAD052	5,4	1,7	BAB1-002-BLTV-D0B*
RP3/8"	10	40	115	98	45	67	110	PAD032	6	0,9	BAB1-003-BLTV-D0
RP3/8"	10	40	151,5	134,5	71	67	141	PAD052	6	1,7	BAB1-003-BLTV-D0B*
RP1/2"	15	40	115	98	45	67	110	PAD032	16,3	0,9	BAB1-004-BLTV-D0
RP1/2"	15	40	151,5	134,5	71	67	141	PAD052	16,3	1,7	BAB1-004-BLTV-D0B*
RP3/4"	20	40	120	100	45	76	110	PAD032	29,5	1,0	BAB1-005-BLTV-D0
RP3/4"	20	40	156,5	136,5	71	76	141	PAD052	29,5	1,8	BAB1-005-BLTV-D0B*
RP1"	25	40	135	111	45	90	110	PAD032	43	1,3	BAB1-006-BLTV-D0
RP1"	25	40	171,5	147,5	71	90	141	PAD052	43	2,1	BAB1-006-BLTV-D0B*
RP11/4"	32	40	144	114	45	102	110	PAD032	89	1,6	BAB1-007-BLTV-D0
RP11/4"	32	40	180,5	150,5	71	102	141	PAD052	89	2,4	BAB1-007-BLTV-D0B*
RP11/2"	40	40	203	166	71	114	141	PAD052	230	3,1	BAB1-008-BLTV-D0
RP2"	50	40	221	175	71	138	141	PAD052	265	4,1	BAB1-009-BLTV-D0
RP21/2"	65	25	259	202	81	157	164	PAD063	540	5,5	BAB1-010-BLTV-D0
RP3"	80	16	279	211	81	188	164	PAD063	873	7,8	BAB1-011-BLTV-D0
RP4"	100	16	345	262	106	225	241	PAD085	1390	14,0	BAB1-012-BLTV-D0

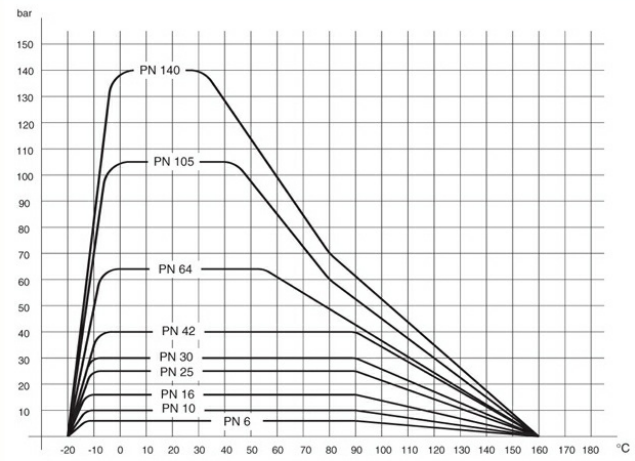
*With the suffix B, the ball valves are equipped with the PAD052 actuator. When using limit switch boxes and NAMUR control valves, B types must be used.

Ball valves with single-acting rotary actuator

Connection A	Nominal size DN[mm]	max. Operating pressure [bar] up to 85°C	B	C	D	E	F	Actuator type	Kv value [m³/h Water]	Weight [approx. kg]	Type
RP1/4"	8	40	151	134	71	67	141	PAS0525	5,4	1,9	BAB1-002-BLTV-S0
RP3/8"	10	40	151	134	71	67	141	PAS0525	6	1,9	BAB1-003-BLTV-S0
RP1/2"	15	40	151	134	71	67	141	PAS0525	16,3	1,9	BAB1-004-BLTV-S0
RP3/4"	20	40	156	136	71	76	141	PAS0525	29,5	2,0	BAB1-005-BLTV-S0
RP1"	25	40	172	147	71	90	141	PAS0525	43	2,3	BAB1-006-BLTV-S0
RP11/4"	32	40	180	151	71	102	141	PAS0525	89	2,6	BAB1-007-BLTV-S0
RP11/2"	40	40	214	177	81	114	141	PAS0635	230	4,1	BAB1-008-BLTV-S0
RP2"	50	40	232	186	81	138	164	PAS0635	265	5,2	BAB1-009-BLTV-S0
RP21/2"	65	25	291	234	106	165	241	PAS0855	540	8,6	BAB1-010-BLTV-S0
RP3"	80	16	311	243	106	188	241	PAS0855	873	10,9	BAB1-011-BLTV-S0
RP4"	100	16	358	275	123	225	275	PAS1005	1390	17,5	BAB1-012-BLTV-S0

Single-acting actuators are supplied spring-closing (NC) unless otherwise ordered.

Pressure-temperature diagram



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