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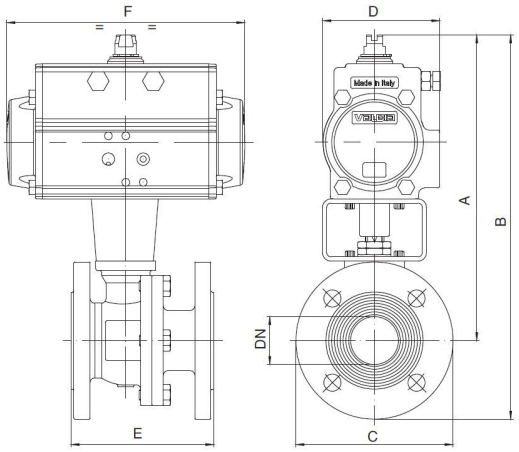
Stainless steel flanged ball valves with pneumatic rotary actuator
Series BA178



Design type	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°
Connection	Flanges DN15...DN200 according to ANSI 150
Overall length	according to ANSI B16.10
Materials Standard version	Actuator: Hard anodized aluminium, Pinion, nickel-plated steel, Piston guide POM, Seals NBR Ball valve: Body and ball stainless steel 1.4408, Ball seal made of PTFE, Double spindle seal PTFE/FKM
Function	available in double-acting or single-acting Version
Mounting type	Installation in rigid piping system
Mounting position	any
Control medium	filtered and lubricated or non-lubricated compressed air
Application range	Fluids and gases of group 1 and 2 in accordance with PED 2014/68/EU that do not attack the materials used
Medium temperature	-20...+160°C
Ambient temperature	-20...+85°C
Control pressure	5,5-8bar, Adaptation to lower pilot pressures possible on request
Operating pressure	Vacuum max. 10-3 Torr up to Nominal pressure according to table and pressure-temperature diagram
Approvals	Fire-safe, TA-Luft test, ATEX on request
Special version	Stainless steel pinion, Ambient temperatures from -40...+85°C or rather -20...+150°C on request
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 pilot 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

Nominal size DN[mm]	max. operating pressure [bar] up to 85°C	A	B	C	D	E	F	Actuator type	Kv value [m 3 /h]	Weight [approx. kg]	Type
15	20	148	192	90	45	108	110	PAD032	19,2	2,5	BA178-15-D0
15	20	184	229	90	71	108	141	PAD052	19,2	3,3	BA178-15-D0-B*
20	20	189	239	100	71	117	141	PAD052	35	4	BA178-20-D0
25	20	207	263	110	71	127	141	PAD052	64,5	5	BA178-25-D0
40	20	250	313	125	81	165	164	PAD063	174	9,2	BA178-40-D0
50	20	275	350	150	95	178	210	PAD075	301,3	14,3	BA178-50-D0
80	20	333	430	190	106	203	241	PAD085	872,5	27,4	BA178-80-D0
100	20	360	473	230	123	229	275	PAD100	1363	37,9	BA178-100-D0
150	20	462	602	280	148	394	372	PAD125	3671	98,6	BA178-150-D0
200	20	551	723	345	186	457	500	PAD160	6816	151,1	BA178-200-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

Nominal size DN[mm]	max. operating pressure [bar] up to 85°C	A	B	C	D	E	F	Actuator type	Kv value [m 3 /h]	Weight [approx. kg]	Type
15	20	184	232	90	71	108	141	PAS0525	19,2	3,5	BA178-15-S0
20	20	200	251	100	81	117	164	PAS0635	35	4,9	BA178-20-S0
25	20	219	275	110	81	127	164	PAS0635	64,5	5,9	BA178-25-S0
40	20	282	345	125	106	165	241	PAS0855	174	12,3	BA178-40-S0
50	20	302	377	150	123	178	275	PAS1005	301,3	18,6	BA178-50-S0
80	20	393	490	190	148	203	372	PAS1255	872,5	37,6	BA178-80-S0
100	20	407	520	230	148	229	372	PAS1255	1363	46,5	BA178-100-S0
150	20	565	705	280	217	394	579	PAS2005	3671	137,5	BA178-150-S0
200	20	609	781	345	217	457	579	PAS2005	6816	182,4	BA178-200-S0

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

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