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Stainless steel flanged ball valves with electric actuator
Series 8E053



Design type	Flanged ball valve with Electric geared motor, additional manual override, Actuator heater and Torque monitoring, Face-to-face length according to EN558-1 R27
Connection	Flanges DN15...DN150 according to EN1092-1
Materials Standard version	Actuator: Polymer housing PA6 or rather PA66 Ball valve: Body and ball stainless steel 1.4408, Ball seal PTFE, Spindle seal Graphoil/PTFE/FKM
Application range	Fluids and gases of group 1 and 2 according to PED 2014/68/EU that do not attack the materials used
Medium temperature	-20...+160°C
Ambient temperature	-20...+55°C
Operating pressure	Vacuum max. 10^{-3} Torr up to Rated pressure according to table and pressure-temperature diagram
Mounting type	Installation in rigid piping system
Mounting position	any, except hanging downward

Electrical data:

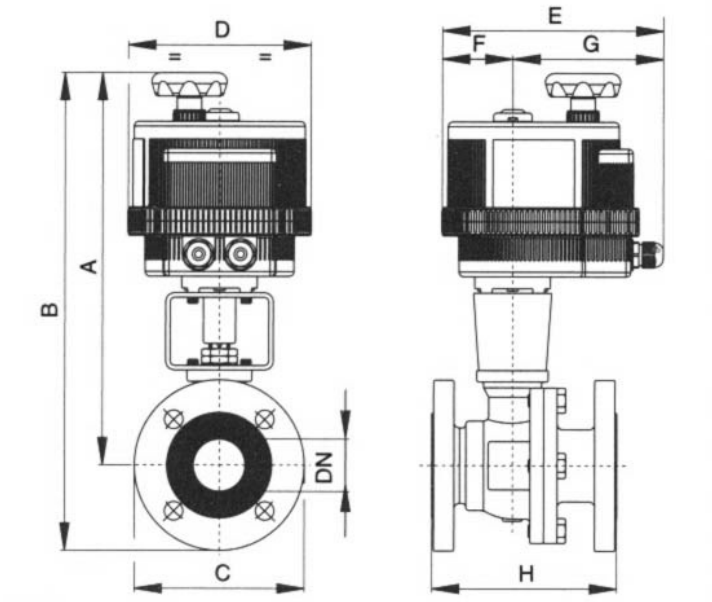
Voltage type	AC and DC voltage
Standard voltage	see table "Electrical data"
Permissible voltage fluctuation	± 10%
Electrical Connection	via cable gland PG11
End position shut-off	via built-in limit switches
Duty cycle	see table "Electrical data", however max. 100 switching cycles per day
Degree of protection	VB015 IP65 or rather all other sizes IP67 according to EN 60529 with properly installed cable entry (protection against dust ingress and splashing water)
Approvals	Ball valve: ATEX EX II 2 G/D c T3, Fire-safe, TA-Luft
Special version	oil-, grease- and silicone-free for oxygen, Battery pack for safety position, Positioner
Ordering note	When ordering, please also specify the 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.

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Order code

		8E053	001 -	15
	12V/50-60Hz/12VDC	001		
	24V/50-60Hz/24VDC	002		
Voltage	100-240V/50-60Hz	004		
Nominal size	DN 15			15
	DN 20			20
	DN 25			25
	DN 32			32
	DN 40			40
	DN 50			50
	DN 65			65
	DN 80			80
	DN 100			100
	DN 125			125
	DN 150			150

Dimensions



Nominal size DN[mm]	max. Operating pressure [bar]	A	B	C	D	E	F	G	H	Kv value [m^3/h]	Weight [approx. kg]	Actuator type	Type
15	40	225	272	95	123	164	43	121	115	19,2	4,2	VB015	8E053..-15
20	40	227	279	105	123	164	43	121	120	35	4,9	VB015	8E053..-20
25	40	294	351	115	157	191	61	130	125	64,5	7,1	VB030	8E053..-25
32	40	324	394	140	185	215	68	147	130	103,8	9,4	VB060	8E053..-32
40	40	351	426	150	185	215	68	147	140	174	11,7	VB060	8E053..-40
50	40	359	441	165	185	215	68	147	150	301,3	15	VB060	8E053..-50
65	16	386	478	185	211	237	84	153	170	545,7	20,6	VB110	8E053..-65
80	16	521	421	200	211	237	84	153	180	872,5	25,7	VB110	8E053..-80
100	16	435	544	220	211	237	84	153	190	1363	32	VB190	8E053..-100
125	16	459	584	250	222	247	77	170	325	2360	56,8	VB270	8E053..-125
150	16	491	634	285	222	247	77	170	350	3671	82	VB350	8E053..-150

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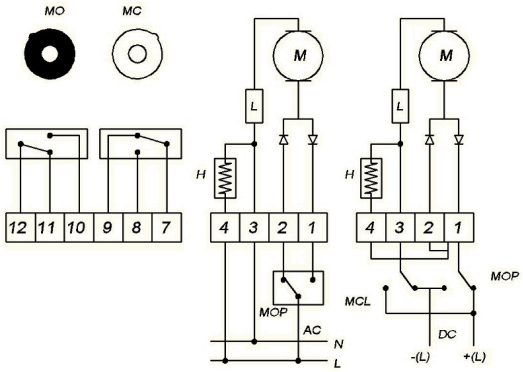
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Electrical data

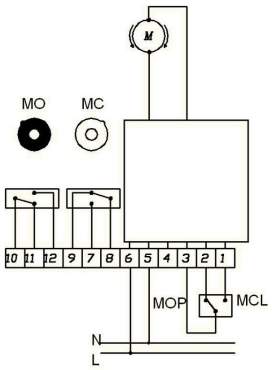
Type	Voltage	Current consumption [A]	Rated torque [Nm]	Duty cycle (S3)	Actuation time [Sek.]
VB015-L-12	12V/50-60Hz/12VDC	1,2	15	AC 50% / DC 75%	10
VB015-L-24	24V/50-60Hz/24VDC	0,6	15	AC 50% / DC 75%	10
VB015-H	100-240V/50-60Hz	0,3-0,19	15	75%	10
VB30-L-12	12V/50-60Hz/12VDC	AC 2,2 / DC 1,8	30	50%	8
VB30-L	24V/50-60Hz/24VDC	AC 1 / DC 0,7	30	75%	8
VB30-H	100-240V/50-60Hz	0,4-0,2	30	75%	8
VB060-L-12	12V/50-60Hz/12VDC	AC 3,8 / DC 2,85	60	50%	9
VB060-L	24V/50-60Hz/24VDC	AC 1,8 / DC 1,2	60	75%	9
VB60-H	100-240V/50-60Hz	0,6-0,3	60	75%	9
VB110-L-12	12V/50-60Hz/12VDC	AC 2,2 / DC 1,8	110	50%	27
VB110-L	24V/50-60Hz/24VDC	AC 1 / DC 0,7	110	75%	27
VB110-H	100-240V/50-60Hz	0,4-0,2	110	75%	27
VB190-L-12	12V/50-60Hz/12VDC	AC 3,8 / DC 2,85	190	50%	27
VB190-L	24V/50-60Hz/24VDC	AC 1,8 / DC 1,2	190	75%	27
VB190-H	100-240V/50-60Hz	0,6-0,3	190	75%	27
VB270-L-12	12V/50-60Hz/12VDC	AC 3,8 / DC 2,85	270	50%	50
VB270-L	24V/50-60Hz/24VDC	AC 1,8 / DC 1,2	270	75%	50
VB270-H	100-240V/50-60Hz	0,6-0,3	270	75%	50
VB350-L-12	12V/50-60Hz/12VDC	AC 4,75 / DC 3,65	350	50%	50
VB350-L	24V/50-60Hz/24VDC	AC 1,895/ DC 1,65	350	75%	50
VB350-H	100-240V/50-60Hz	0,75-0,4	350	75%	50

Electrical connection example VB015

Type VB015-L



Type VB015-H

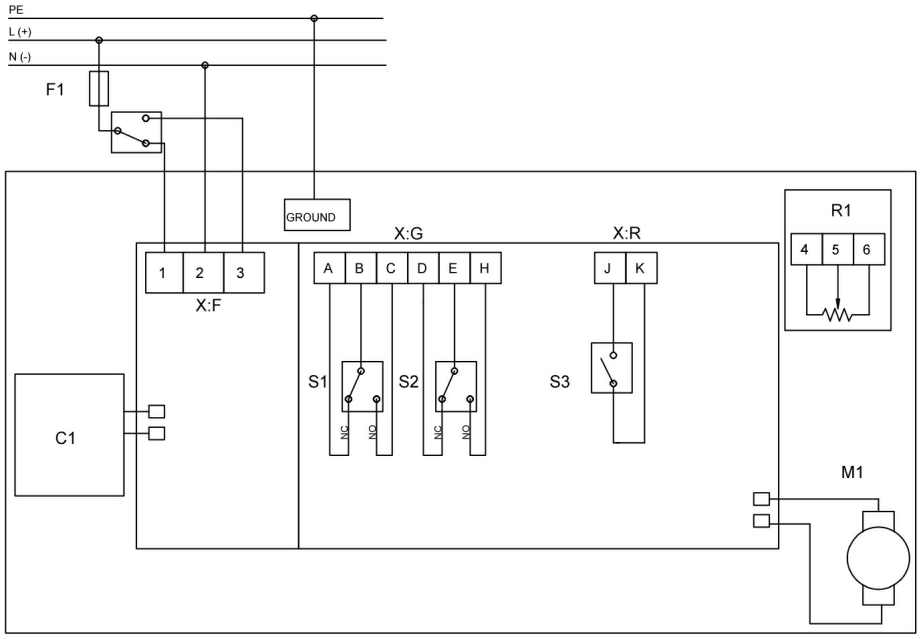


Position	Description	Note
H	Heater	Standard
L	Torque limiter	Standard
MC	End position feedback signals CLOSED	Standard max. 1A/250VAC-1A/30VDC
MO	End position feedback signals ON	Standard max. 1A/250VAC-1A/30VDC
MCL	Actuator CLOSED	
MOP	Actuator OPEN	

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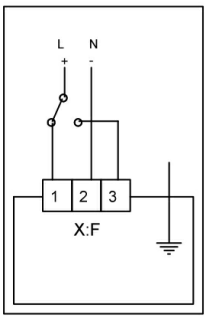
Electrical connection example VB030 - VB350



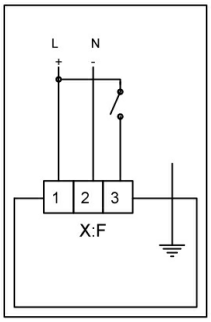
Position	Description	Note
C1	Battery pack for safety position	optional available
R1	Potentiometer 5 KΩ/1W	optional available
S1	End position feedback signals CLOSED	Standard max. 2A/250VAC-2A/30VDC
S2	End position feedback signals ON	Standard max. 2A/250VAC-2A/30VDC
S3	Fault message	Standard max. 1A/120VAC-2A/24VDC
X:F:1	Connection terminal	Actuator CLOSED
X:F:2	Connection terminal	
X:F:3	Connection terminal	Actuator OPEN

2-Point control or 3-point control by changing the electrical connection VB030 - VB350

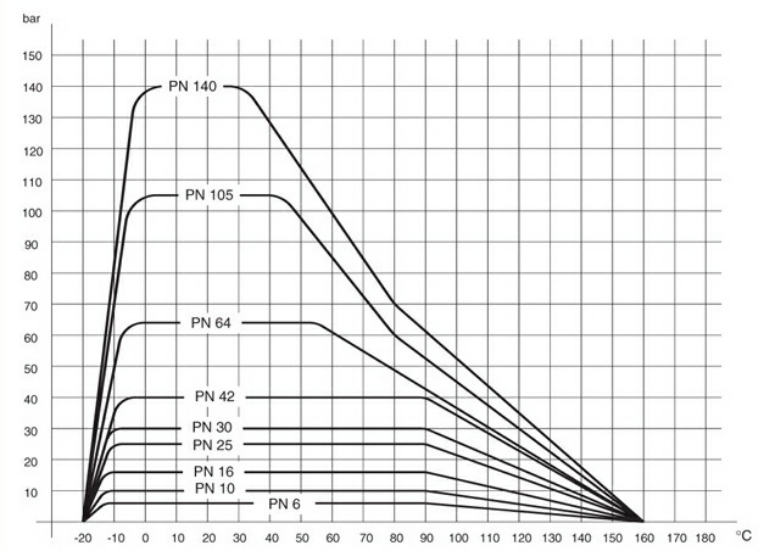
3-point control



2-point control



Pressure-temperature diagram



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