

ball valves made of brass with electric actuator series BA080

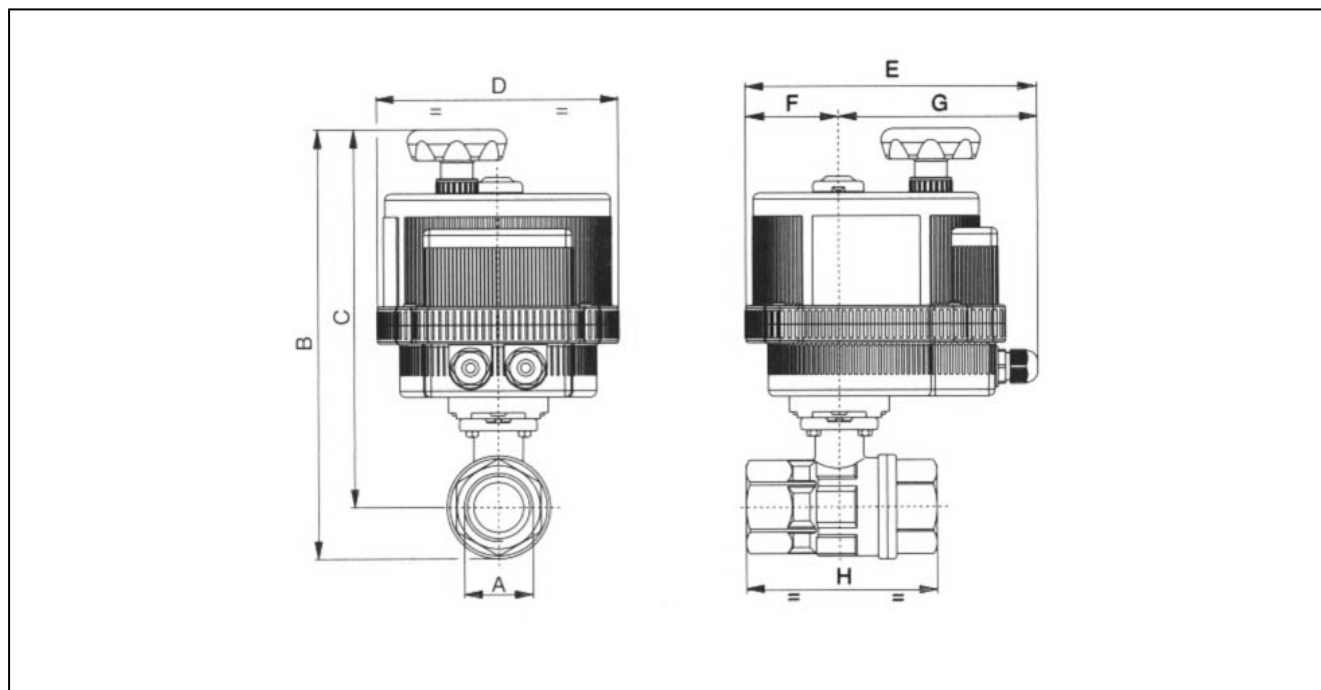


design	electric gear motor with manual operation, actuator heating and torque control
connection	RP1/4"...RP4" according to ISO7/1
materials	actuator: body made of Polymer PA6 respectively PA66
standard construction	ball valve: CW617N brass nickel plated body, ball brass CW617N hard chrome plated, seals PTFE/FKM/EPDM
application	gases and liquids of group 2 according to PED 2014/68/EU, which do not affect the used materials.
medium temperature	0...+100°C
ambient temperature	-20...+55°C
operating pressure	0bar to operating pressure according to the table and pressure-temperature diagram, not suitable for vacuum
type of fixing	installed into rigid pipework
mounting position	any, except hanging down
electrical data	
type of current	AC and DC
standard voltage	see table "electrical data"
permissible voltage tolerance	± 10%
electrical connection	via cable gland PG11
limit switch-off	via build in limit switches
duty cycle	see table "electrical data", but max. 100 operations a day
protection class	VB015 IP65 respectively all other sizes IP67 according to EN 60529 by correctly mounted cable inlet (protection against dust and splash water)
special version	higher media temperatures, accumulator for safety position, positioner, ATEX
order information	in case of order please indicate operating media, pressure and temperatur.
direction for use	pressure and temperature values are maximum values for lubricating or not degreasing mediums. in particular degreasing media reduce the indicated values and increase the necessary torque. In border lines we recommend a previous consultation.

order code

		BA080- 14 - 0L	
	RP1/4"	14	
	RP3/8"	38	
	RP1/2"	12	
	RP3/4"	34	
	RP1"	10	
	RP11/4"	114	
	RP11/2"	112	
	RP2"	20	
	RP21/2"	212	
	RP3"	30	
	RP4"	40	
connection			
voltage	12V/50-60Hz/12VDC		0D
	24V/50-60Hz/24VDC		0L
	100-240V/50-60Hz		0H

dimensions

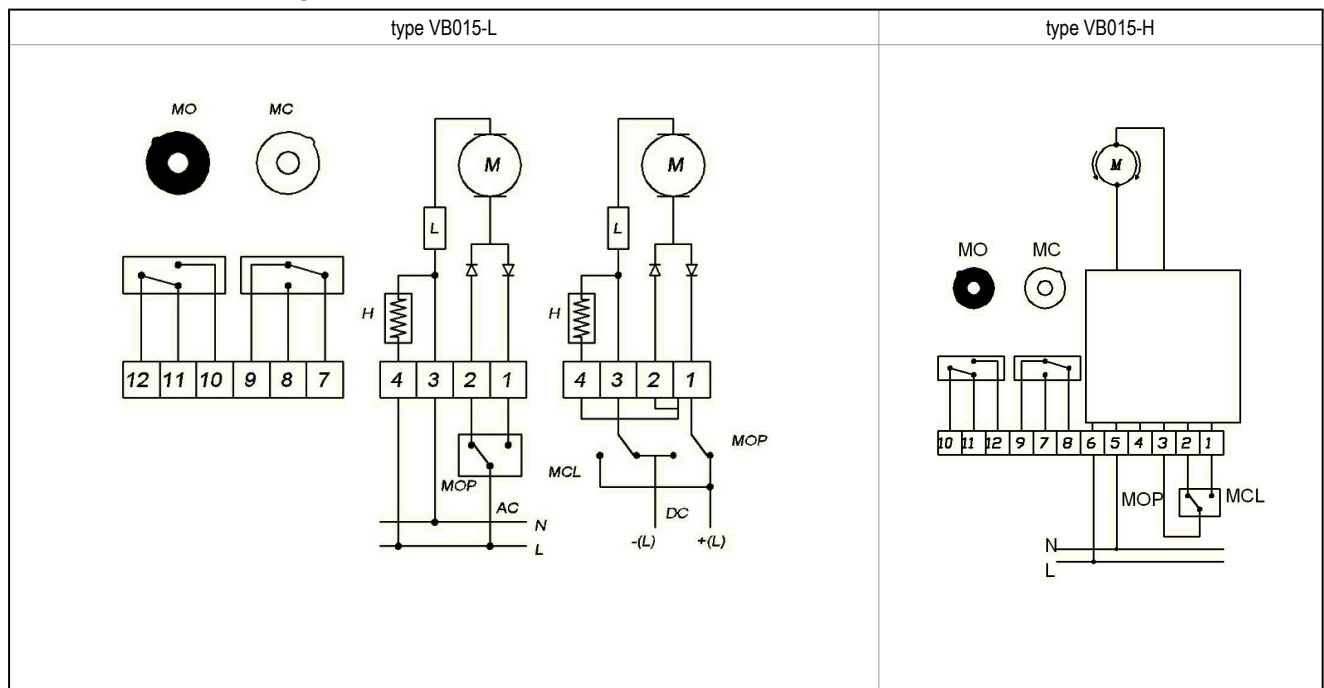


connection A	nominal diameter DN[mm]	max. operating pressure [bar]	B	C	D	E	F	G	H	kv value [m³/h]	weight [app. kg]	type of actuator	type
RP1/4"	8	40	192	175	123	164	43	121	67	5,4	1,8	VB015	BA080-14-0.
RP3/8"	10	40	192	175	123	164	43	121	67	6	1,8	VB015	BA080-38-0.
RP1/2"	15	40	192	175	123	164	43	121	67	16,3	1,8	VB015	BA080-12-0.
RP3/4"	20	40	197	177	123	164	43	121	76	29,5	1,8	VB015	BA080-34-0.
RP1"	25	40	213	188	123	164	43	121	90	43	2,2	VB015	BA080-10-0.
RP11/4"	32	40	221	191	123	164	43	121	102	89	2,5	VB015	BA080-114-0.
RP11/2"	40	40	289	252	157	191	61	130	114	230	4,1	VB030	BA080-112-0.
RP2"	50	40	308	262	157	191	61	130	138	265	5,1	VB030	BA080-20-0.
RP21/2"	65	25	360	303	185	215	68	147	157	540	7,3	VB060	BA080-212-0.
RP3"	80	16	382	314	185	215	68	147	188	873	9,6	VB060	BA080-30-0.
RP4"	100	16	435	352	211	237	84	153	225	1390	15,0	VB110	BA080-40-0.

electrical data

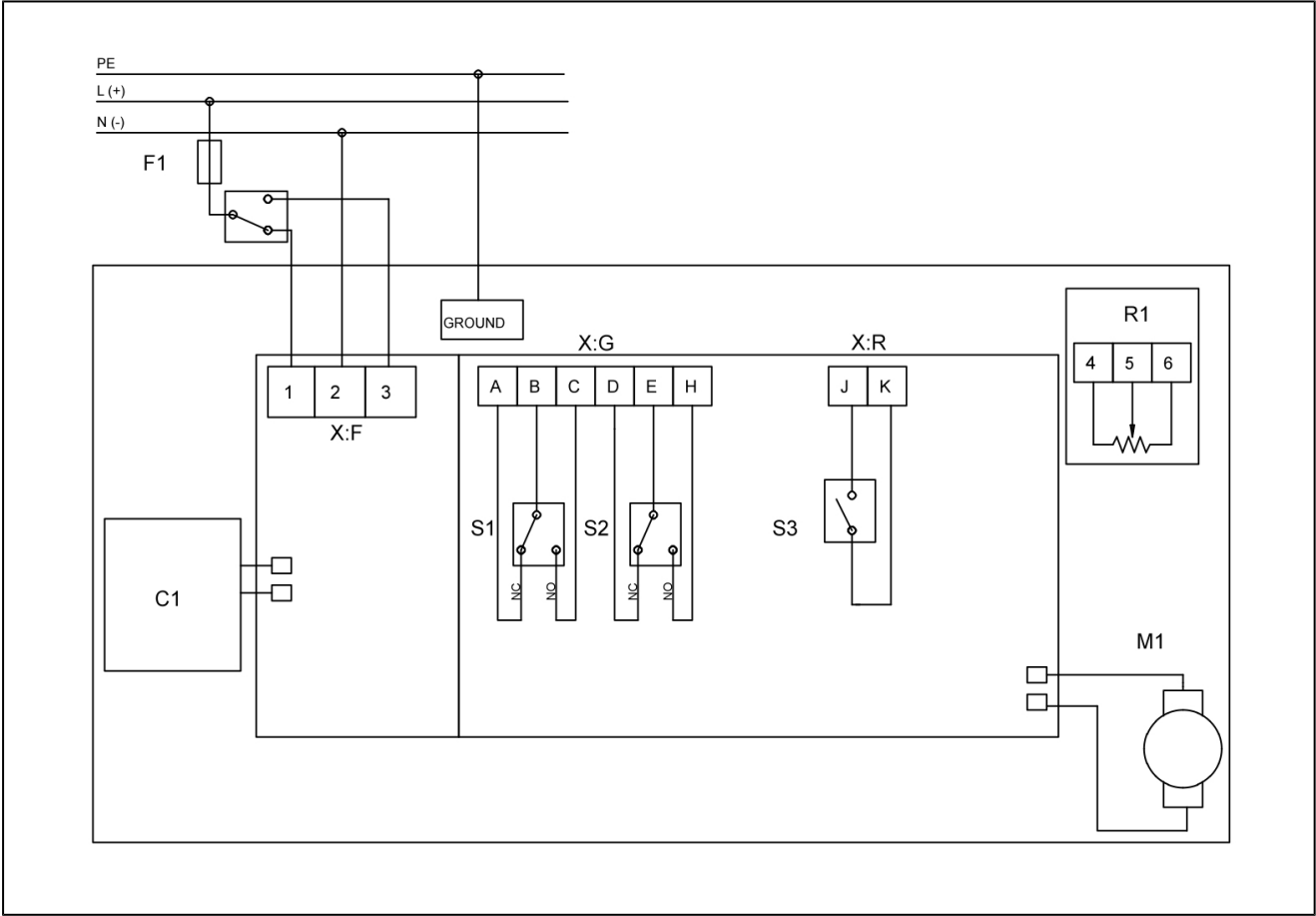
type	voltage	current consumption [A]	nominal torque [Nm]	duty cycle (S3)	operating time [Sek.]
VB015-L-12	12V/50-60Hz/12VDC	1,2	15	AC 50% / DC75%	10
VB015-L-24	24V/50-60Hz/24VDC	0,6	15	AC 50% / DC75%	10
VB015-H	100-240V/50-60Hz	0,3-0,19	15	75%	10
VB030-L-12	12V/50-60Hz/12VDC	AC 2,2 / DC 1,8	30	50%	8
VB030-L	24V/50-60Hz/24VDC	AC 1,0 / DC 0,7	30	75%	8
VB030-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
VB060-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

example for electric wiring VB015



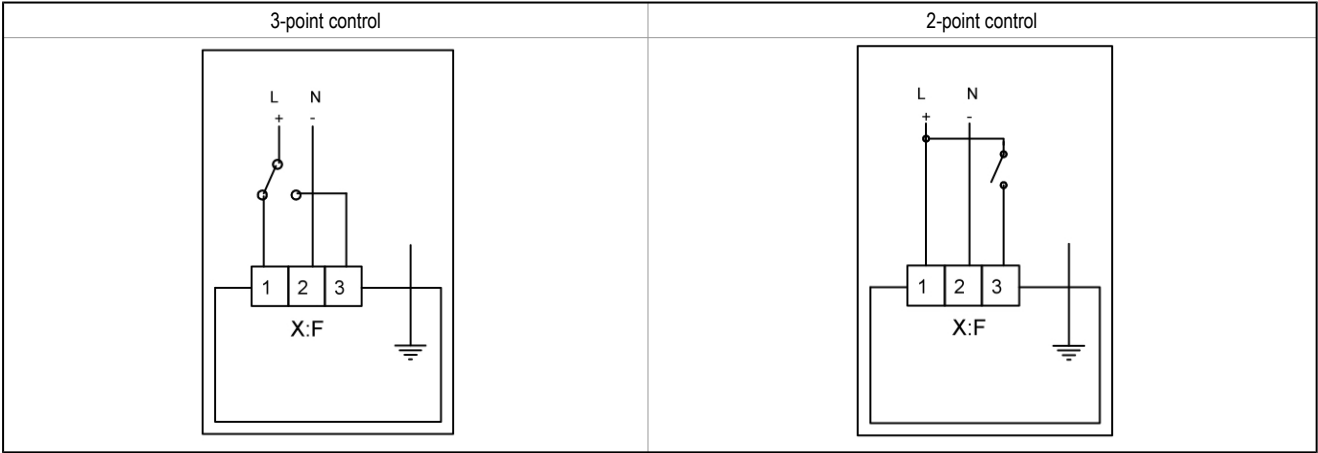
position	description	information
H	heating	standard
L	torque limiter	standard
MC	end position response close	standard max. 1A/250VAC-1A/30VDC
MO	end position response open	standard max. 1A/250VAC-1A/30VDC
MCL	actuator closing	
MOP	actuator opening	

example for electric wiring VB030 - VB110

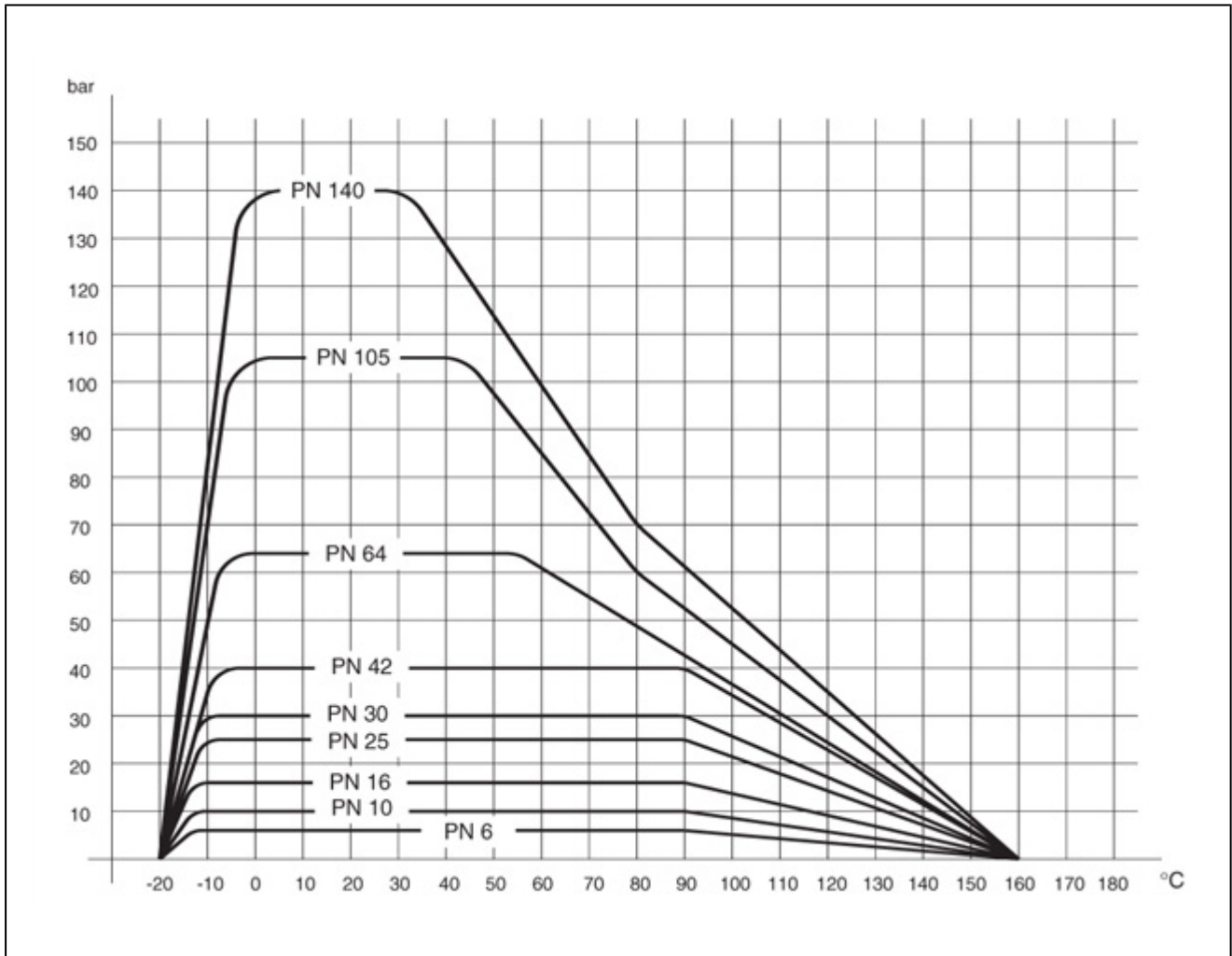


position	description	information
C1	accumulator for safety position	optionally available
R1	potentiometer 5 K Ω /1W	optionally available
S1	end position response close	standard max. 2A/250VAC-2A/30VDC
S2	end position response open	standard max. 2A/250VAC-2A/30VDC
S3	fault indicator	standard max. 1A/120VAC-2A/24VDC
X:F:1	terminal	actuator closing
X:F:2	terminal	
X:F:3	terminal	actuator opening

2-point control or 3-point control by changing the electrical connections
VB030 - VB110



pressure-temperature-diagram



illustrations are non-binding
all designs, configurations, measurements and materials are subject to change without prior notice