

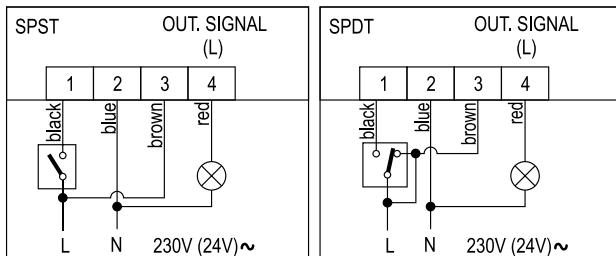
XII. ELECTRIC MOTOR ACTUATED BALL VALVES

EMV110 series 502/503

EMV110 series electric motor actuated ball valve is designed as closing element for heating systems (solar, remote, house-heating), for hot blast heating, cooling systems, swimming pools, petrochemical industry, alternative heating and agricultural purposes.

Features:

- Narrow width (53mm) enables mounting into manifold cabinets (55mm raster)
- Built-in relay module enables two wire control SPST
- Simple disassembly of the drive with clip
- Rotation angle is fixed (90°).
- Output electric signal (L) at the end position of the actuator (circulation pump control)



Actuator characteristics:

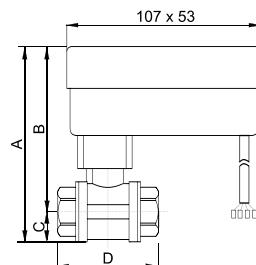
- Supply voltage: 230VAC/50Hz, *24VAC/50Hz
- Power consumption: 7VA
- Micro switch rating: 1(1)A, 230VAC
- Protection class (in accordance with EN-60335-1): II
- Enclosure rating (in accordance with IEC60529): IP44
- In accordance with: EMC directive: 2004/108/EEC,
- LV Directive: 2006/95/EEC, PAH directive: 2005/69/EEC
- Ambient temperature: 0...55°C
- Humidity: RH 0%...80% (non condensed)
- Storage temperature: -10...+70°C
- Connection cord: 4x0.5mm², L=0.3m

- Position indication: on actuator cover
- Possibility of manual control: no
- Direction of rotation: not defined CW/CCW
- Built in relay module: yes

Valve characteristics:

- Medium: water, nonaggressive fluid, air, glycol < 30%
- Medium temperature: +5°C...90°C
- Working pressure: max. 16bar
- Material:
 - Valve body: brass CuZn40Pb2 Ni
 - Ball: brass CuZn40Pb2 Cr
 - O-rings: PTFE, FPM, EPDM

EMV 110 series 502



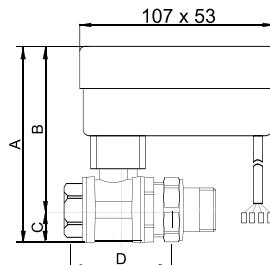
Ends: female/female

DN	A	B	C	D	Kvs	kg
15 - 1/2"	112	103,5	17,5	63	17	0,86
20 - 3/4"	124	104,5	19,5	57	41	0,82
25 - 1"	129	105,5	23,5	68	68	0,98

* Kvs=m³/h Δp=1bar

Code	Type	DN	Voltage	Time	MAX Torque
*10502	EMV 110 502/7930-2	15 - 1/2"	230VAC, 50Hz	30s / 90°	8Nm
*10503	EMV 110 502/7930-3	20 - 3/4"	230VAC, 50Hz	30s / 90°	8Nm
*10504	EMV 110 502/7930-4	25 - 1"	230VAC, 50Hz	30s / 90°	8Nm
*10508	EMV 110 502/7933-2	15 - 1/2"	24VAC, 50Hz	30s / 90°	8Nm
*10509	EMV 110 502/7933-3	20 - 3/4"	24VAC, 50Hz	30s / 90°	8Nm
*10510	EMV 110 502/7933-4	25 - 1"	24VAC, 50Hz	30s / 90°	8Nm

EMV 110 series 503



Ends: male/ female hose union

DN	A	B	C	D	E	Kvs	kg
15 - 1/2"	112	103,5	17,5	99	86	17	0,89
20 - 3/4"	124	104,5	19,5	90,5	77,5	41	0,87
25 - 1"	129	105,5	23,5	104	90	68	1,04

* Kvs=m³/h Δp=1bar

Code	Type	DN	Voltage	Time	MAX Torque
*10512	EMV 110 503/7930-2	15 - 1/2"	230VAC, 50Hz	30s / 90°	8Nm
*10513	EMV 110 503/7930-3	20 - 3/4"	230VAC, 50Hz	30s / 90°	8Nm
*10514	EMV 110 503/7930-4	25 - 1"	230VAC, 50Hz	30s / 90°	8Nm
*10515	EMV 110 503/7933-2	15 - 1/2"	24VAC, 50Hz	30s / 90°	8Nm
*10516	EMV 110 503/7933-3	20 - 3/4"	24VAC, 50Hz	30s / 90°	8Nm
*10517	EMV 110 503/7933-4	25 - 1"	24VAC, 50Hz	30s / 90°	8Nm