

Compact 200C

FIRST ZONE UNITS

2-way brass ball valves with electric actuator series 4000 and Clip system.



2-POINT CONTROL 1 / 0 STOP AT END POSITIONS



Valves are available in DN 15 – DN 32, with internal or external thread, union fittings and compression fittings.

- FIRŠT ball valves series 200C are used as closing elements for HVAC applications (for use in heat pumps, small central heating systems, solar systems, district heating etc.), drinking water installations, irrigation installations etc.
- Five types of connections are available: internal threads (220C), internal thread with union fitting (221C), union fitting (222C), compression fitting (223C), external threads (224C).

OPERATION

Firšt ball valves 200C are compact 2-way brass ball valves for use in domestic heating systems, cooling systems, air installations and drinking water applications.

Valves are equipped with series 4000 2P ND (Compact) actuators which allow high regulating accuracy and easy installation with one-click, CLIP system. Actuators are controlled with 2-point signal (SPST) built-in relay module.

Anti blocking function provides that in case of blockade, the motor changes its direction. Because of that feature the motor is able to save itself from stopping.

MAINTENANCE

Valve and actuator require no maintenance. The installation of suitable strainer is recommended.

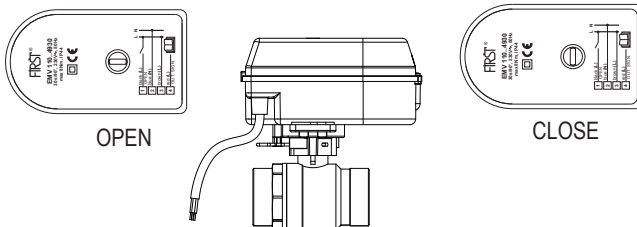
CERTIFICATES

Firšt valves 200C are suitable for use in drinking water installations. All 200C valves are ACS certified, valve 220C with internal threads is also WRAS and DVGW certified.



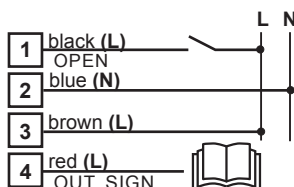
INSTALLATION POSITION

Actuators can be installed only in one position.



ELECTRICAL CONNECTION

Actuator has output signal in the open end position.



TECHNICAL DATA: VALVES

Nominal pressure:	PN 32 for general applications, PN 10 (EN 13828 : 2003 8)
Medium:	drinking water, water, glycol < 50%, non aggressive liquids water quality as per VDI 2035
Media temperature:	min. +2°C; max. +110°C
Media temperature with optional SCA solar/cooling adaptor:	min. -15°C, max. +125°C (temporarily +150°C)
Leakage (Δ p=1 bar):	rate A according to EN 12266-1:2003
Max. diff. pressure:	6 bar (recommended max. diff. pressure for low noise operation: 2 bar)
Connections:	Rp internal thread (EN 10226-1) R external thread (EN 10226-1) G external thread (ISO 228-1) compression fittings (EN 1254-2)

Material

Valve body:	Brass, CW617N
Ball:	Brass, CW617N
Seals:	PTFE, EPDM Perox, FPM
Certification:	ACS (valve 220 also DVGW and WRAS)

TECHNICAL DATA: ACTUATOR

Control:	2-point SPST
Supply voltage:	230 VAC~50Hz
Rotation time:	30s/90°
Power consumption:	9 VA (operation), 5 VA (stand by relay on), 0 VA (stand by relay off)
Max. Torque:	8 Nm
Protection class:	II
Enclosure rating:	IP44
Connection cable:	1,5 m, 4 x 0,5 mm ²
Direction of rotation:	ND, undefined CW/CCW (90° / 360°)
Manual control:	no
Position indicator:	on actuator cover
Ambient temperature:	+0°C..+55°C
Storage temperature:	-10°C..+70°C
Humidity:	0%..80% R.h. (non condensed)

CLIP SYSTEM

Compact design of the valve allows easy assembling and disassembling. Clip system allows easy installation of the actuator on the valve body with single click without any tools.



CE In accordance with PED, LVD, RoHS2, EMC



FIRŠT d.o.o.
Koroška cesta 56
SI-3320 Velenje
SLOVENIA

phone: +386 3 898 35 00
fax: +386 3 898 35 35
email: info@first.si
web: www.first.si

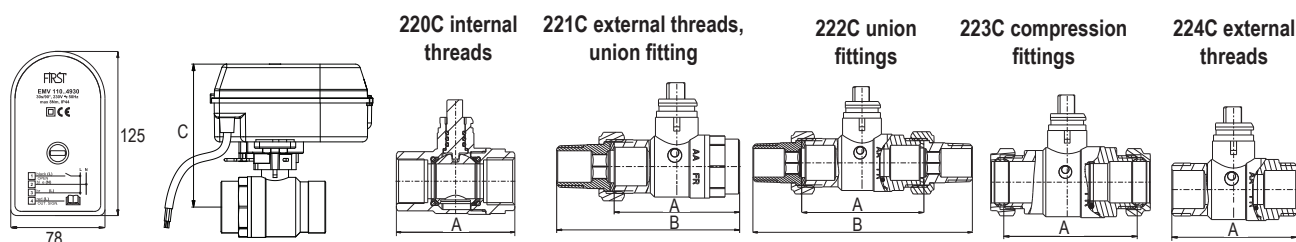
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Let Firšt be your first choice.



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Valve 220C, internal threads

Code	Type	DN	Kvs	Voltage	Rotation time	Control	Connection	A	B	C	Weight [kg]	Price (€)
10620	S4930 220C DN15 FR Rp 1/2" FF	15	20	230V~50Hz	30s/90°	2P	Rp 1/2"	62		104	0,71	
10621	S4930 220C DN20 FR Rp 3/4" FF	20	45	230V~50Hz	30s/90°	2P	Rp 3/4"	68		107	0,82	
10622	S4930 220C DN25 FR Rp 1" FF	25	60	230V~50Hz	30s/90°	2P	Rp 1"	81		111	1,01	
10623	S4930 220C DN32 FR Rp 1 1/4" FF	32	100	230V~50Hz	30s/90°	2P	Rp 1 1/4"	86		112	1,16	

Valve 221C, internal thread, union fitting

Code	Type	DN	Kvs	Voltage	Rotation time	Control	Connection	A	B	C	Weight [kg]	Price (€)
10634	S4930 221C DN15 FR Rp/R 1/2" FU	15	20	230V~50Hz	30s/90°	2P	Rp/R 1/2"	62	90	104	0,77	
10635	S4930 221C DN20 FR Rp/R 3/4" FU	20	45	230V~50Hz	30s/90°	2P	Rp/R 3/4"	70	102	107	0,91	
10636	S4930 221C DN25 FR Rp/R 1" FU	25	60	230V~50Hz	30s/90°	2P	Rp/R 1"	81	114	111	1,16	
10637	S4930 221C DN32 FR Rp/R 1 1/4" FU	32	100	230V~50Hz	30s/90°	2P	Rp/R 1 1/4"	79	117	112	1,36	

Valve 222C, union fitting

Code	Type	DN	Kvs	Voltage	Rotation time	Control	Connection	A	B	C	Weight [kg]	Price (€)
10638	S4930 222C DN15 FR R 1/2" UU	15	20	230V~50Hz	30s/90°	2P	R 1/2"	62	119	104	0,84	
10639	S4930 222C DN20 FR R 3/4" UU	20	45	230V~50Hz	30s/90°	2P	R 3/4"	74	138	107	1,02	
10640	S4930 222C DN25 FR R 1" UU	25	60	230V~50Hz	30s/90°	2P	R 1"	82	149	111	1,32	
10641	S4930 222C DN32 FR R 1 1/4" UU	32	100	230V~50Hz	30s/90°	2P	R 1 1/4"	83	158	112	1,61	

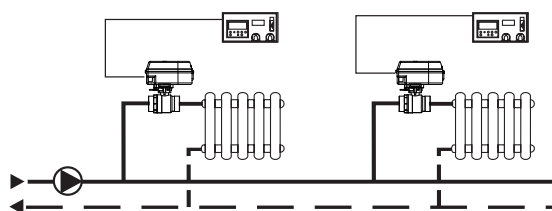
Valve 223C, compression fittings

Code	Type	DN	Kvs	Voltage	Rotation time	Control	Connection	A	B	C	Weight [kg]	Price (€)
10642	S4930 223C DN15 D15 CC	15	20	230V~50Hz	30s/90°	2P	CPF 15mm	62		104	0,74	
10643	S4930 223C DN20 D22 CC	20	45	230V~50Hz	30s/90°	2P	CPF 22mm	74		107	0,88	
10644	S4930 223C DN25 D28 CC	25	60	230V~50Hz	30s/90°	2P	CPF 28mm	82		111	1,08	

Valve 224C, external threads

Code	Type	DN	Kvs	Voltage	Rotation time	Control	Connection	A	B	C	Weight [kg]	Price (€)
10645	S4930 224C DN15 FR G 3/4" MM	15	20	230V~50Hz	30s/90°	2P	G 3/4"	62		104	0,72	
10646	S4930 224C DN20 FR G 1" MM	20	45	230V~50Hz	30s/90°	2P	G 1"	74		107	0,85	
10647	S4930 224C DN25 FR G1 1/4" MM	25	60	230V~50Hz	30s/90°	2P	G 1 1/4"	82		111	1,06	
10648	S4930 224C DN32 FR G1 1/2" MM	32	100	230V~50Hz	30s/90°	2P	G1 1/2"	83		112	1,22	

Installation example



Features and options

- **Supply voltage:** 230 VAC 50 Hz 24 VAC 50 Hz.
- **Solar/cooling adapter:** Heat barrier for protection of the actuator in solar or cooling systems.

FIRST®

FIRST d.o.o.
Koroška cesta 56
SI-3320 Velenje
SLOVENIA

phone: +386 3 898 35 00
fax: +386 3 898 35 35
email: info@first.si
web: www.first.si

www.first.si
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