FBV 200C

FIRŠT BALL VALVES

2-way brass ball valves with Clip system

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 avaliable: internal threads (FBV 220C), internal thread and union fitting (FBV 221C), union fitting (FBV 222C), compression fittings (FBV 223C), external threads (FBV 224C)

OPERATION

The 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 suitable for long-lasting operation because of special sealing construction. Small rotation torque of the valve minimizes of valve blocking.

Valves can be equipped with series 9000 actuators which allow high regulating accuracy and easy installation with one-click CLIP System.

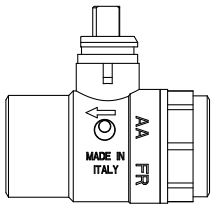
MAINTENANCE

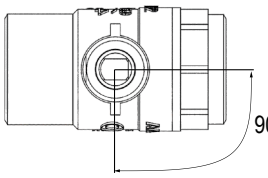
Valve require no maintenance. The installation of suitable strainer is recommended.

CERTIFICATES

Fišt 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 POSITIONS





90° rotating angle

CLIP SYSTEM

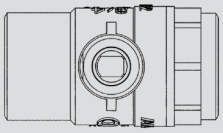
Compact design of the valve allows easy assembling and disassembling. Clip system allows easy installation of the actuator on the valve body with single click without any tools.

TECHNICAL DATA

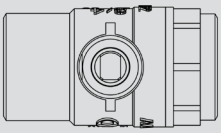
Nominal pressure:	PN 32 for general applications, PN 10 (EN 13828 : 2003 8)
Medium:	drinking water, water, glycol < 50%, non aggressive liquids water quality as per VDI 2035
Media temperature:	min. -20°C max. +125°C (+150°C only water with glycol solution- short time peaks)
Max leakage:	rate A according 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 220C also DVGW and WRAS)

PED 97/ 23/ EC art. 3.3

WORKING WAY



OPEN



CLOSE

SUITABLE ACTUATORS

- S9000 2P ND
- S9000 2P
- S9000 3P
- UNI 2P ND
- COMPACT 2P ND

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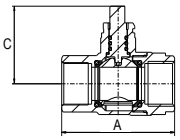
Let Firšt be your first choice.

FBV 200C

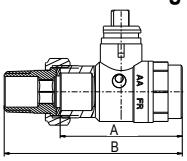
FIRŠT BALL VALVES

2-way brass ball valves with Clip system

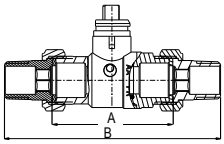
220C internal threads



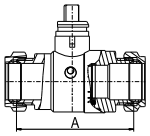
221C external threads, union fitting



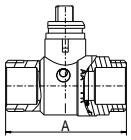
222C union fittings



223C compression fittings



224C external threads



Valve 220C, internal threads

Code	Type	DN	Kvs	Connection	A	B	C	Weight [kg]	Price (€)
50140	FBV 220C DN15 Rp 1/2"	15	20	Rp 1/2"	62		41	0,23	
50141	FBV 220C DN20 Rp 3/4"	20	45	Rp 3/4"	68		47	0,34	
50142	FBV 220C DN25 FR Rp 1"	25	60	Rp 1"	81		51	0,53	
50145	FBV 220C DN32 Rp 1 1/4"	32	100	Rp 1 1/4"	86		56	0,68	

Valve 221C, internal thread, union fitting

Code	Type	DN	Kvs	Connection	A	B	C	Weight [kg]	Price (€)
50170	FBV 221C DN15 Rp/R 1/2"	15	20	Rp/R 1/2"	62	90	41	0,29	
50171	FBV 221C DN20 Rp/R 3/4"	20	45	Rp/R 3/4"	68	100	47	0,43	
50172	FBV 221C DN25 FR Rp/R 1"	25	60	Rp/R 1"	81	114	51	0,68	
50173	FBV 221C DN32 FR Rp/R 1 1/4"	32	100	Rp/R 1 1/4"	79	117	56	0,88	

Valve 222C, union fitting

Code	Type	DN	Kvs	Connection	A	B	C	Weight [kg]	Price (€)
50174	FBV 222C DN15 FR R 1/2"	15	20	R 1/2"	62	119	41	0,36	
50175	FBV 222C DN20 FR R 3/4"	20	45	R 3/4"	74	136	47	0,54	
50176	FBV 222C DN25 FR R 1"	25	60	R 1"	82	149	51	0,84	
50177	FBV 222C DN32 FR R 1 1/4"	32	100	R 1 1/4"	83	158	56	1,13	

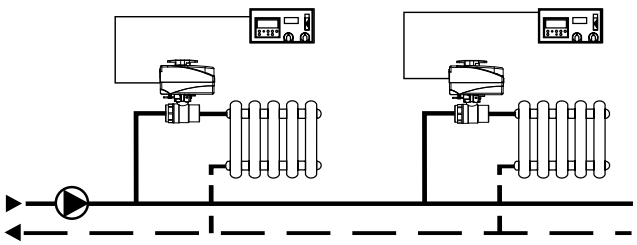
Valve 223C, compression fittings

Code	Type	DN	Kvs	Connection	A	B	C	Weight [kg]	Price (€)
50178	FBV 223C DN15 D15 CC	15	20	CPF 15mm	62	119	41	0,26	
50179	FBV 223C DN20 D20 CC	20	45	CPF 22mm	72	136	47	0,40	
50180	FBV 223C DN25 D28 CC	25	60	CPF 28mm	82	149	51	0,60	

Valve 224C, external threads

Code	Type	DN	Kvs	Connection	A	B	C	Weight [kg]	Price (€)
50193	FBV 224C DN15 G 3/4"	15	20	G 3/4"	62	119	41	0,24	
50194	FBV 224C DN20 G 1"	20	45	G 1"	74	136	47	0,37	
50195	FBV 224C DN25 G1 1/4"	25	60	G 1 1/4"	82	149	51	0,58	
50196	FBV 224C DN32 G1 1/2"	32	100	G1 1/2"	83	158	56	0,74	

INSTALLATION EXAMPLE



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