CONTROL VALVES

HIGH TEMPERATURE BALL VALVES **HTCCV SERIES**



DESCRIPTION

The Belimo HTCCV Series 2-way high temperature ball valves are used for two-position, floating or proportional control of HVAC hot or chilled water, or low pressure steam. The valves come assembled with direct coupled Belimo electric actuators with spring return or non-spring return operation. This valve displays a true equal percentage characteristic. They come in standard sizes from 1/2" to 1" and Cv's from (0.29 to 28).

FEATURES

- · Equal percentage flow characteristic
- Assembled, ready for installation
- Spring return or non-spring return actuators
- Floating, two-position, or proportional control
- Hot/chilled waer and low pressure steam up to 15psi





B215HT029/LRB24-SR







SPECIFICATIONS

Size 1/2", 3/4" and 1" FNPT

Cv Range 0.29 to 28 **Body Pattern** 2-way only

Flow Characteristic A-port equal percentage

Leakage Rating 0%, bubble tight

Maximum Closeoff Pressure

200 psid (1380 kPa)

Materials Of Construction

Brass body (DZR) P-CuZn35Pb2, stainless steel ball and stem, Tefzel® characterized disc and seat, EPDM

o-rings

Media Compatibility Chilled or hot water, <60% glycol,

<15 psig (104kPa) steam

Media Temperature Range

60° to 266°F (16° to 130°C) water, limited to 250°F (121°C) for steam

Non-spring return: TR, LRB, LRX

Compatible Actuators

Spring return: TFRB, TFRX

Pressure Drop Maximum differential pressure

60 psid (414 kPa) for water (partially

opened), 116 psid (799 kPa) for

B215HT455 only

15 psid (104 kPa) for steam

Body Pressure Rating 600 psig (4135 kPa)

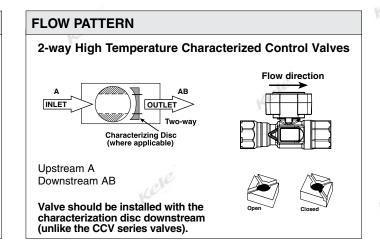
Approvals

UL File #E108966 (for actuators

only), CSA, CE

Warranty 5 years

DIMENSIONS Valve Nominal Size Dimensions - inches (cm) Valve Body Inches DN(mm) В **B215HT** 1/2" 15 3.33 (8.46) 2.09 (5.32) 0.53 (1.35) **B220HT** 3/4" 20 3.96 (10.06) 2.37 (6.01) 0.67 (1.70) B225HT 1" 5.14 (13.06) 3.14 (7.98) 0.92 (2.325)

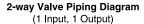


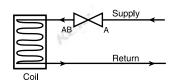
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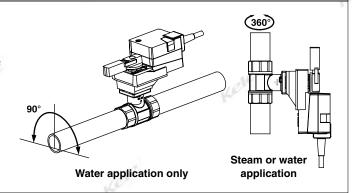
HTCCV SERIES

MOUNTING / PIPING DIAGRAMS





Assembly can be mounted horizontally or vertically for water applications. For steam applications the valve can be mounted vertically but if mounted horizontally the valve must be 90° off center of the pipe. Do not install with actuator below pipe.



ORDERING INFORMATION

VALVE SPECIFICATION				NON-SPRING RETURN		SPRING RETURN		
Port	Valve#	Cv	Size	Two-Pos/Tri-state	Proportional	Two-Pos	Tri-state	Proportional
Two-way	B215HT029	0.29	1/2"	TR24-3	TR24-SR	TFRB24	TFRB24-3	TFRB24-SR
Two-way	B215HT046	0.46	1/2"	TR24-3	TR24-SR	TFRB24	TFRB24-3	TFRB24-SR
Two-way	B215HT073	0.73	1/2"	TR24-3	TR24-SR	TFRB24	TFRB24-3	TFRB24-SR
Two-way	B215HT116	1.16	1/2"	TR24-3	TR24-SR	TFRB24	TFRB24-3	TFRB24-SR
Two-way	B215HT186	1.86	1/2"	TR24-3	TR24-SR	TFRB24	TFRB24-3	TFRB24-SR
Two-way	B215HT290	2.9	1/2"	TR24-3	TR24-SR	TFRB24	TFRB24-3	TFRB24-SR
Two-way	B215HT455*	4.55	1/2"	TR24-3	TR24-SR	TFRB24	TFRB24-3	TFRB24-SR
Two-way	B220HT186	1.86	3/4"	LRB24-3	LRB24-SR	LF24	LF24-3	LF24-SR
Two-way	B220HT290	2.9	3/4"	LRB24-3	LRB24-SR	LF24	LF24-3	LF24-SR
Two-way	B220HT464	4.64	3/4"	LRB24-3	LRB24-SR	LF24	LF24-3	LF24-SR
Two-way	B220HT731	7.31	3/4"	LRB24-3	LRB24-SR	LF24	LF24-3	LF24-SR
Two-way	B220HT928	9.28	3/4"	LRB24-3	LRB24-SR	LF24	LF24-3	LF24-SR
Two-way	B220HT1320	13.2	3/4"	LRB24-3	LRB24-SR	LF24	LF24-3	LF24-SR
Two-way	B225HT464	4.64	1"	LRB24-3	LRB24-SR	LF24	LF24-3	LF24-SR
Two-way	B225HT731	7.31	1"	LRB24-3	LRB24-SR	LF24	LF24-3	LF24-SR
Two-way	B225HT1160	11.6	1"	LRB24-3	LRB24-SR	LF24	LF24-3	LF24-SR
Two-way	B225HT1856	18.56	1"	LRB24-3	LRB24-SR	LF24	LF24-3	LF24-SR
Two-way	B225HT2800	28	1"	LRB24-3	LRB24-SR	LF24	LF24-3	LF24-SR

^{*}Modified equal percentage characteristic

B___/ Select ball valve # from list above (brackets and mounting are included).

Select actuator # from list above (other options for the actuator family are also available)

Example: B215HT029 / TR24-SR 1/2" ball valve, Cv=0.29 with proportional non-spring return actuator

All valves are factory assembled. No field assembly required.

Note: For actuator information see B2, B3 Series Ball Valve page.

Note: Multi-Function Technology® (MFT) model actuators are available on certain models. Replace LRB models with LRX; TFRB models with TFRX. Then add -MFT to the base model number and specify the control signal configuration or the Belimo P-code for a pre-set MFT configuration (not required if to be field configured, or if the default configuration of 2-10 VDC is required).

FREE VALVE ASSEMBLY, JUST ASK!

RELATED PRODUCTS

SSTAG Stainless steel tag on bead chain, 1" x 2" dogtag, custom engraved per order

September 2016