

2018Ball Valve Product Range



Control Valve Product Range

Industrial Ball Valve Product Range

	Valve No	minal Size	Туре		Suitable Actuators				
Cv	Inches	DN [mm]	2-way NPT	3-way NPT			Spring Return		
1	1/2	15	B2050VS-01*						
2	1/2	15	B2050VS-02*		LM Series			LF Series	
4	1/2	15	B2050VS-04*		S E			LF S	
15	1/2	15	B2050VS-15*			60			
30	3/4	20	B219VS			SY Series		NF Series	
51	3/4	20	B220VS		NM Series	SY S		Sel S	
43	1	25	B224VS		Ē				
68	1	25	B225VS						
48	11/4	32	B232VS		Sel			AF Series	
84	1½	40	B239VS		ries		ies	AF S	
177	1½	40	B240VS		GM Series		PR Series		
108	2	50	B249VS		5		풉		
15	1/2	15	B2050VSS-15*					5	
30	3/4	20	B219VSS		NM Series	SY Series		Ŗ	
43	1	25	B224VSS			SY		ies	
108	2	50	B249VSS		GM		PR Series	AF Series	
6.4	1/2	15		B315L**				ries	
12.8	3/4	20		B320L**	LR Series			LFR Series	
11	1	25		B325L**	=			<u> </u>	
34	11⁄4	32		B332L**				es	
57	1½	40		B340L**	AR Series			AFR Series	
87	2	50		B350L**	Ser			AF	

 $^{^{\}star}$ For hot only or cold only applications. Not for temperature changeover applications. ** Not for steam applications

NOTE: Industrial ball valves (B2..VS, B2..VSS) have serviceable components. Proper maintenance of these parts will ensure a longer in-service life for the valves. The seats of these valves will require replacement at an interval consistent with number of full cycles the valve has be operated, or as field condition dictates.





Mode of Operation

The control valve is operated by an electronic actuator that responds to a standard voltage for on/off control, by a modulating VDC/4...20 mA, or 3-point control system. The actuator will then move the ball of the valve to the position dictated by the control signal thus changing the flow.

Product Features

Modified equal percentage of flow for B2. Modified linear flow for B3.

B3...L valves are for diverting applications and are not rated for steam.

Actuator Specifications

Control type	on/off, floating point, modulating, 2-10 VDC multi-function technology (MFT)						
Manual override	LM, NM, GM, AM, SY, PR, AF, NF, GK						
Electrical connection	3 ft. [1 m] cable with ½" conduit fitting (excluding SY)						

Valve Specifications						
Service	chilled or hot water, (60% glycol), steam (2-way)					
Flow characteristic	modified equal percentage (B2), modified linear (B3L)					
Sizes	1/2", 3/4", 1", 11/4", 11/2", 2"					
End fitting	FNPT					
Materials						
Body	bronze (B2VS) stainless steel (B2VSS) nickel plated brass (B3L)					
Ball	stainless steel, bronze (B2050VSS-15) chrome plated brass (B3L)					
Stem	stainless steel nickel plated brass (B3L)					
Seats						
2-way	MPTFE, RPTFE (B2050)					
3-way	Teflon PTFE					
Stem packing 2-way NPT	MPTFE					
O-rings	NPT EPDM (B3L)					
	NFT EFDINI (BSL)					
Media temp range B2VS	-22°F to +280°F [-30°C to +138°C]					
B2VSS	-22°F to +298°F [-30°C to +148°C]					
B3L	0°F to 250°F [-18°C to +120°C]					
Body pressure rating						
3-way	600 psi DN 15-25 (B3L ½"-1") 400 psi DN 32-50 (B3L 1¼" - 2")					
Maximum inlet pressure						
Steam	35 psi B2VS 50 psi B2VSS					
Leakage	ANSI Class VI (B2VS, VSS) 0% (B3L)					
	·					

Control Valve Product Range

V Ball Control Valve Product Range

	Valve No	minal Size	Туре		Suitable Actuators				;						
		DN	2 11/2	2-way Flanged									Fail-Safe		
Cv	Inches	[mm]	2-way NPT		Non Fail-Safe			Spring Return		Electronic					
024	1	25	B2100VB-024												
055	1½	40	B2150VB-055												
077	2	50	B2200VB-077			AM S		Series		AF					
207	3	80		B6300VB-207				PR S		▼	GK Series				
350	4	100		B6400VB-350			GM		ш		GK S				
507	6	150		B6600VB-507											

NOTE: Industrial ball valves have serviceable components. Proper maintenance of these parts will ensure a longer in-service life for the valves. The seats of these valves will require replacement at an interval consistent with number of full cycles the valve has be operated, or as field condition dictates.



Mode of Operation

The control valve is operated by an electronic actuator that responds to a standard voltage for on/off control, by a modulating VDC/4...20 mA, or 3-point control system. The actuator will then move the ball of the valve to the position dictated by the control signal thus changing the flow.

Product Features

Equal percentage of flow 300:1 rangeability ANSI Leakage Class IV

Actuator Specifications

Control type	on/off, floating point, modulating, 2-10 VDC multi-function technology (MFT)					
Manual override	all models					
Electrical connection	3 ft. [1 m] cable with ½" conduit fitting, terminal block					

Valve Specifications

Service	chilled or hot water, (60% glycol), steam					
Flow characteristic	equal percentage					
Sizes	1", 1½", 2", 3", 4", 6"					
End fitting	SAE NPT female (1" to 2") ANSI flanged (3" to 6")					
Materials						
Body	carbon steel					
Characterizing ball	hardened chrome plated					
	stainless steel					
Stem	stainless steel					
Seats	Teflon®					
O-rings	ALFAS					
Stem packing	spring loaded Teflon® V-ring					
Bushings	Stanyl PA46					
Media temp. range	380°F max.					
Body pressure rating	NPT ANSI 300 (1" to 2") Flanged ANSI 150 (3" to 6")					
Maximum ∆P steam	100 psi					
Maximum ∆P water	100 psi					
Close-off pressure						
Water	150 psi					
Steam	200 psi					
Maximum inlet pressure						
Steam	200 psi					
Leakage	ANSI Class VI					

ACR Supply Company Inc. 4040 S. Alston Avenue Durham, NC 27713 Phone: 919-765-8081 With branches in NC

Aireco Supply 9120 Washington Boulevard Savage, MD 20763-0414 Phone: 301-953-8800 With branches in MD, VA

Amcon Controls, Inc. 11906 Warfield Street San Antonio.TX 78216 Phone: 210-349-6161 With branches in Houston, TX and Mandeville, LA

Relevant Solutions (formally Applied Automation) 3186 South Washington Street, #230 Salt Lake City, UT 84115 Phone: 801-486-6454 With branches in CA, CO, TX

Boston Aircontrols, Inc. 8 Blanchard Road Burlington, MA 01803 Phone: 781-272-5800

Charles D. Jones Co. 445 Bryant Street, Unit #1 Denver, CO 80204-4800 Phone: 800-777-0910 With branches in CO, MO, KS

Cochrane Supply and Engineering, Inc. 30303 Stephenson Highway Madison Heights, MI 48071-1633 Phone: 800-482-4894 With branches in MI, OH and KY

Columbus Temperature Control 1053 E. 5th Avenue

Columbus, OH 43201 Phone: 800-837-1837

Controlco 985 3rd Street Oakland, CA 94607 Phone: 510-636-7900 With branches in CA, NV, TN

Control Products 9101 Jameel, Suite 130 Houston, TX 77447 Phone: 713-849-7200

With a branch in San Antonio, TX

Control Stop 1000 N Pine Street, Suite 6 Spartanburg, SC 29303 Phone: (864) 586-3818 With a branch in NC

Engineered Control Systems 5627 NW 74th Avenue Miami, FL 33166 Phone: 305-885-8804 With branches in FL

G & O Thermal Supply 5435 N. Northwest Highway Chicago, IL 60630 Phone: 773-763-1300 With branches in IL, IN and WI

Industrial Controls Distributors, LLC (formally Climatic Control) 5061 W. State Street Milwaukee, WI 53208 Phone: 800-242-1656 With branches in WI

Industrial Controls Distributors, LLC 17 Christopher Way Eatontown, NJ 07724 Phone: 800-543-8200

With branches in GA, KY, IN, MA, ME, NC, NY, OH, PA, TN

Interstate HVAC Controls 30 Vineland Street Brighton, MA 02135 Phone: 617-782-9000

Jackson Controls 1708 E. 10th Street Indianapolis, IN 46201 Phone: 317-231-2200

M & M Controls 9E West Aylesbury Road Timonium, MD 21093 Phone: 410-252-1221 With branches in VA

MICONTROLS, Inc. 6516 5th Place South Seattle, WA 98124 Phone: 800-877-8026 With branches in WA, OR

Meier Supply 123 Brown Street Johnson City, NY 13790 Phone: 607-797-7700 With branches in NY, PA

Minvalco, Inc. 3340 Gorham Avenue Minneapolis, MN 55426-4267 Phone: 952-920-0131 With branches in MN

Relevant Solutions 12610 West Airport Blvd, Suite 100 Sugarland, TX 77478 Phone: 281-295-8850

RSD / Refrigeration Supplies Distributor 26021 Atlantic Ocean Drive Lake Forest, CA 92630 Phone: 949-380-7878 With branches in CA, NV, OR, AK, AZ, ID, UT, WA, MT

Saint Louis Boiler Supply, Co. 617 Hanley Industrial Court St. Louis, MO 63144 Phone: 314-962-9242

South Side Control Supply, Co. 488 N. Milwaukee Avenue Chicago, IL 60610-3923 Phone: 312-226-4900 With branches in IL, IN

Stromquist and Company 4620 Atlanta Road Smyrna, GA 30080 Phone: 404-794-3440 With a branch in Orlando, FL

Temperature Control Systems 10315 Brockwood Road Dallas, TX 75238 Phone: 214-343-1444 With branches in OK, TX

T.F. Campbell Company 1203 Edgebrook Avenue Pittsburgh, PA 15226 Phone: 412-881-8006

Tower Equipment Co., Inc. 1320 West Broad Street Stratford, CT 06615 Phone: 800-346-4647

Twinco Supply Corporation 55 Craven Street Huntington Station, NY 11746-2143 Phone: 800-794-3188 With branches in NY

For a complete list of distributors in Canada, please visit our website: www.belimo.ca or call toll free: 866-805-7089

For a complete list of distributors in Brazil, please visit our website: www.belimo.com.br or call: 55 11 3643-5656

LATIN AMERICA & THE CARIBBEAN

For a complete list of distributors in Latin America and the Caribbean, please visit our website: www.belimo.us or call: 203-791-8396













Belimo Americas

USA, Latin America, and the Caribbean: www.belimo.us

Canada: www.belimo.ca Brazil: www.belimo.com.br

Belimo Worldwide: www.belimo.com

