2019
Ball Valve Product Range
CESIM is the Belimo method to innovate building technology with sensors, valves, and actuators. As a member of the UN Global Compact, Belimo is an active stakeholder contributing to the Sustainable Development Goals (SDG) directly. By incorporating the UN Global Compact principles into strategies, policies, and procedures, Belimo is not only upholding their basic responsibilities to people and the planet, but also setting the stage for long-term success of our industry.

CESIM ensures that the “small” Belimo devices have a big impact on Comfort, Energy Efficiency, Safety, Installation, and Maintenance.

Find out more
www.belimo.us/cesim
Control Valve Product Range

Industrial Ball Valve

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 all models except LF

Electrical connection 3 ft. [1 m] cable with ½” conduit fitting

Valve Specifications
Service chilled or hot water, (60% glycol), steam (2-way)
Flow characteristic modified equal percentage (B2), modified linear (B3...L)

Sizes ½”, ¾”, 1”, 1¼”, 1½”, 2”
End fitting NPT female

Materials
Body bronze (B2..VS) stainless steel (B2..VSS) nickel plated brass (B3..L)
Ball stainless steel, bronze (B2050VSS-15)
Stem stainless steel nickel plated brass (B3..L)
Seats 2-way MPTFE, RPTFE (B2050)
3-way tetlon PTFE
Stem packing 2-way NPT MPTFE
0-rings NPT EPDM (B3..L)

Media temp range
B2..VS -22°F to +280°F [-30°C to +138°C]
B2..VSS -22°F to +298°F [-30°C to +148°C]
B3...L 0°F to 250°F [-18°C to +120°C]

Body pressure rating
3-way 600 psi DN 15-25 (B3..L ½”-1”) 400 psi DN 32-50 (B3..L 1¼” - 2”)

Maximum inlet pressure
Steam 35 psi B2..VS
50 psi B2..VSS
Leakage ANSI Class VI (B2..VS, VSS) 0% (B3..L)

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 been operated, or as field condition dictates.
Control Valve Product Range

V Ball Control Valve

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 flow
300:1 rangeability
ANSI Class IV Leakage Rating

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 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 Δp steam 100 psi
Maximum Δp water 100 psi
Close-off pressure
Water 150 psi
Steam 200 psi
Maximum inlet pressure
Steam 200 psi
Leakage ANSI Class IV

<table>
<thead>
<tr>
<th>Valve Nominal Size</th>
<th>Type</th>
<th>Cv</th>
<th>Inches</th>
<th>DN [mm]</th>
<th>2-way NPT</th>
<th>2-way Flanged</th>
<th>Non Fail-Safe</th>
<th>Fail-Safe</th>
<th>Spring Return</th>
<th>Electronic</th>
</tr>
</thead>
<tbody>
<tr>
<td>024</td>
<td></td>
<td>0.25</td>
<td>1</td>
<td>25</td>
<td>B2100VB-024</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>055</td>
<td></td>
<td>0.5</td>
<td>1½</td>
<td>40</td>
<td>B2150VB-055</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>077</td>
<td></td>
<td>0.75</td>
<td>2</td>
<td>50</td>
<td>B2200VB-077</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>207</td>
<td></td>
<td>2.05</td>
<td>3</td>
<td>80</td>
<td>B6300VB-207</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>350</td>
<td></td>
<td>3.5</td>
<td>4</td>
<td>100</td>
<td>B6400VB-350</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>507</td>
<td></td>
<td>5.05</td>
<td>6</td>
<td>150</td>
<td>B6600VB-507</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.
Belimo Americas Platinum Distributors

USA
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 Variedfield Street  
San Antonio, TX 78216  
Phone: 210-349-6161  
With branches in Houston, TX and Mandeville, LA
Belimo Americas

Canada
Relevant Solutions (formally Applied Automation)  
3186 South Washington Street, #230  
Salt Lake City, UT 84115  
Phone: 801-777-0910  
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: 303-451-9050  
With branches in CO, MO, KS
Cochrane Supply and Engineering, Inc.
30303 Stephenson Highway  
Madison Heights, MI 48071-1633  
Phone: 313-582-2200  
With branches in MI, OH and KY
Columbus Temperature Control
1053 E. 5th Avenue  
Columbus, OH 43201  
Phone: 614-232-2100
Controlco
3451 Vincent Road  
Pleasant Hill, CA 94523  
Phone: 916-927-5599  
With branches in CA, NV, TN
Control Depot
9304 G Court  
Omaha, NE 68127  
Phone: 402-860-7408  
With a branch in Lincoln, NE
Control Products
9101 Jameel, Suite 130  
Houston, TX 77447  
Phone: 713-849-7200  
With a branch in San Antonio, TX
Control Stop
1400 N Proctor 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 60656  
Phone: 773-763-1300  
With branches in IL, IN and WI
Industrial Controls Distributors, LLC  
(formally Climatic Control)  
1245 W. Canal Street  
Milwaukee, WI 53233  
Phone: 414-259-9070  
With branches in WI
Industrial Controls Distributors, LLC
17 Christopher Way  
Eatonown, NJ 07724  
Phone: 800-543-8200  
With branches in GA, KY, IN, MA, ME, NC, NY, OH, PA, TN
Interstate HVAC Controls
30 Vineyard Street  
Brighton, MA 02135  
Phone: 781-782-9000
Jackson Controls
1708 E. 10th Street  
Indianapolis, IN 46201  
Phone: 317-231-2240
M & M Controls
9E West Aylesbury Road  
Timonium, MD 21093  
Phone: 410-252-1221  
With branches in VA
Meier Supply
275 Broome Corporate Pwky  
Conklin, NY 13748  
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
9750 West Sam Houston Pwky North Suite 190  
Houston, TX 77064  
Phone: 281-295-8850
RSD / Refrigeration Supplies Distributor
26201 2nd Street  
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
Twincos Supply Corporation
55 Craven Street  
Huntington Station, NY 11746-2143  
Phone: 800-794-3188  
With branches in NY

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

Brazil
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