SERIES ZC CONTROL BALL VALVE
WITH CUSTOMIZABLE FLOW CHARACTERISTICS

FEATURES
- Based on the Plast-O-Matic “Engineered” True Blue Ball Valve with dual floating seats and Trunnion design.
- 15°, 30°, 45°, 60°, and 90° V-Balls, Linear Cut or Full Port.
- Ball design can be customized to provide virtually any required flow performance.
- Sizes from 3/8” to 4” in PVC, CPVC, Natural Polypropylene and PVDF.
- Electrically actuated electronic control with series EBVA Actuator with 4-20mA or 0-10 VDC digital positioning. The modulating digital positioner offers auto-calibrating and self-resetting functions
- Air Actuated electronic control with series EPP Electro-Pneumatic Positioner.

To Specify Characterized Ball Angles

<table>
<thead>
<tr>
<th>Angle</th>
<th>Suffix</th>
<th>Angle</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>15° V-Cut</td>
<td>-C1</td>
<td>60° V-Cut</td>
<td>-C6</td>
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<tr>
<td>30° V-Cut</td>
<td>-C3</td>
<td>90° V-Cut</td>
<td>-C9</td>
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<tr>
<td>45° V-Cut</td>
<td>-C4</td>
<td>Linear Flow</td>
<td>-CLF</td>
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</tbody>
</table>

Add suffix to end of ball valve part number.
For example: EBVA1-3-050-EPT-PV-C9
For custom characterized balls, please contact factory

Standard V-Ball Configurations

15° 30° 45° 60° 90°
SERIES ZC CONTROL BALL VALVE
CHARACTERIZED V-BALL PERFORMANCE CURVES
AT 1 PSI PRESSURE DROP

1/2" Valve

FLOW RATE (GPM) / Cv Value

BALL TYPE
15° V- Ball
30° V- Ball
45° V- Ball
60° V- Ball
90° V- Ball
Linear Flow Ball
Full Port Ball

FLOW RATE (GPM) / Cv Value

ANGLE OF OPENING (DEGREE)

3/4" Valve *

FLOW RATE (GPM) / Cv Value

BALL TYPE
15° V- Ball
30° V- Ball
45° V- Ball
60° V- Ball
90° V- Ball
Linear Flow Ball
Full Port Ball

FLOW RATE (GPM) / Cv Value

ANGLE OF OPENING (DEGREE)

Cv = GPM at 1 PSI △P

* For 3/4" Mini Sanitary Connector sizes, please use 1/2" valve curve above.
SERIES ZC CONTROL BALL VALVE
CHARACTERIZED V-BALL PERFORMANCE CURVES
AT 1 PSI PRESSURE DROP

1" Valve

FLOW RATE (GPM) / Cv Value

ANGLE OF OPENING (DEGREE)

BALL TYPE
- 15° V- Ball
- 30° V- Ball
- 45° V- Ball
- 60° V- Ball
- 90° V- Ball
- Linear Flow Ball
- Full Port Ball

FLOW RATE (GPM) / Cv Value

Cv = GPM at 1 PSI ΔP

1½" Valve

FLOW RATE (GPM) / Cv Value

ANGLE OF OPENING (DEGREE)

BALL TYPE
- 15° V- Ball
- 30° V- Ball
- 45° V- Ball
- 60° V- Ball
- 90° V- Ball
- Linear Flow Ball
- Full Port Ball

FLOW RATE (GPM) / Cv Value

Cv = GPM at 1 PSI ΔP
2" Valve

FLOW RATE (GPM) / Cv Value

0 10° 20° 30° 40° 50° 60° 70° 80° 90°

ANGLE OF OPENING (DEGREE)

BALL TYPE
- 15° V-Ball
- 30° V-Ball
- 45° V-Ball
- 60° V-Ball
- 90° V-Ball
- Full Port Ball

3" Valve

FLOW RATE (GPM) / Cv Value

0 10° 20° 30° 40° 50° 60° 70° 80° 90°

ANGLE OF OPENING (DEGREE)

BALL TYPE
- 15° V-Ball
- 30° V-Ball
- 45° V-Ball
- 60° V-Ball
- 90° V-Ball
- Full Port Ball

ZC-0715-C-4
4'' Valve

<table>
<thead>
<tr>
<th>Angle of Opening (Degree)</th>
<th>BALL TYPE</th>
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<tbody>
<tr>
<td></td>
<td>10° V-Ball</td>
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<tr>
<td></td>
<td>15° V-Ball</td>
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<tr>
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<td>30° V-Ball</td>
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<td>45° V-Ball</td>
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<td>60° V-Ball</td>
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<tr>
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<td>90° V-Ball</td>
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<td>Full Port Ball</td>
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FLOW RATE (GPM) / Cv Value

ANGLE OF OPENING (DEGREE)