SERIES V BALL VALVE

SERVICE: Chilled/Hot Water - 50% Glycol
Steam: 125 psi
FLOW CHARACTERISTIC: Equal %
SIZES: 1” - 6”
BODY: Carbon Steel / Stainless Steel Optional
BALL: 304SS
SHAFT: 304SS
SEAT: TFM 1700
O-RING: ALFAS
BEARING: PEEK
TEMPERATURE RANGE: -20°F to 400°F
CLOSE OFF: 250PSI
END CONNECTIONS:
1” - 2” : NPT/Wafer ANSI 150/300
3” - 6” : ANSI 150 Flanged or ANSI 300 Flanged

SERIES 1000-X MODULATING ACTUATOR

MOTOR: 120V or 24V Single Phase - 60Hz
TORQUE RANGE: 443 - 885 in/lbs
HOUSING: Die Cast Aluminum - NEMA 4
CONTROL SIGNAL: 4-20mA or 2-10VDC
FEEDBACK: 4-20mA
RESOLUTION: 80 Steps (4-20mA) 200 Steps (2-10VDC)
PROTECTION: Thermal Overload Protection
POSITION INDICATOR: Mechanical Dome
CONDUIT ENTRIES: 2 x 1/2” NPT
POWER GEARS: Alloy Steel and Aluminum Bronze
BEARINGS: Alloy Steel Sleeve and Ball Bearings
CERTIFICATIONS: CE, NRTL, NEMA 4, CSA File 226201
INTERNAL HEATER: Standard
MANUAL OVERRIDE POWER SWITCH:
Not available on 1005 and all 24V models
MANUAL OVERRIDE: Allen Handle Standard
Optional Handwheel not available on 1005

SERIES 1000-X SPECIFICATIONS - MODULATING

Please specify 2-10VDC or 4-20mA control signal when ordering.
** Specific control packs for 2-10VDC or 4-20mA for both 120V and 24V
*** Switchable 2-10VDC or 4-20mA on 120V, Specific control packs for 2-10VDC or 4-20mA on 24V

<table>
<thead>
<tr>
<th>SERIES V with MODULATING ACTUATORS</th>
<th>1005/S-X</th>
<th>1010/S-X</th>
</tr>
</thead>
<tbody>
<tr>
<td>INCH</td>
<td>DIN [MM]</td>
<td>BODY</td>
</tr>
<tr>
<td>1”</td>
<td>25</td>
<td>150/300</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.5”</td>
<td>40</td>
<td>150/300</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2”</td>
<td>50</td>
<td>150/300</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3”</td>
<td>80</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4”</td>
<td>100</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6”</td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

** Output Torque (in-lb) **
Output Torque (Nm) **
Duty Cycle **
Travel Speed @ 60Hz (Sec) **
Max Current Amp @ 110/220VAC **
Run Current Amp @ 110/220VAC **
Max Current Amp @ 24VAC **
Run Current Amp @ 24VAC **
Input Signal **
Output Signal **
Enclosure Rating **

WATERTIGHT NEMA 4
## INDUSTRIAL MODULATING ELECTRIC ACTUATORS

1" - 6" HIGH PERFORMANCE SEGMENTED BALL VALVES

### Valves Specifications

<table>
<thead>
<tr>
<th>VALVE SIZE</th>
<th>A (IN)</th>
<th>DN (MM)</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>HW</th>
<th>F</th>
<th>V</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>BCD</th>
<th>n x M</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>25</td>
<td>160 (6.3)</td>
<td>160.5 (6.32)</td>
<td>63 (2.48)</td>
<td>49 (1.93)</td>
<td>24 (0.94)</td>
<td>87 (3.43)</td>
<td>50.8 (2)</td>
<td>1&quot; NPT</td>
<td>101 (3.98)</td>
<td>65 (2.56)</td>
<td>127 (5)</td>
<td>70 (2.76)</td>
<td>79.5 (3.13)</td>
<td>4 x M</td>
</tr>
<tr>
<td>1.5</td>
<td>40</td>
<td>160 (6.3)</td>
<td>160.5 (6.32)</td>
<td>63 (2.48)</td>
<td>49 (1.93)</td>
<td>24 (0.94)</td>
<td>87 (3.43)</td>
<td>50.8 (2)</td>
<td>1.5&quot; NPT</td>
<td>166.8 (6.57)</td>
<td>73.2 (2.88)</td>
<td>165 (6.5)</td>
<td>87 (3.43)</td>
<td>98.5 (3.88)</td>
<td>4 x M</td>
</tr>
<tr>
<td>2</td>
<td>50</td>
<td>160 (6.3)</td>
<td>160.5 (6.32)</td>
<td>63 (2.48)</td>
<td>49 (1.93)</td>
<td>24 (0.94)</td>
<td>87 (3.43)</td>
<td>50.8 (2)</td>
<td>2&quot; NPT</td>
<td>128.5 (5.06)</td>
<td>91.5 (3.6)</td>
<td>178 (7)</td>
<td>101 (3.98)</td>
<td>127 (5)</td>
<td>4 x M</td>
</tr>
<tr>
<td>3</td>
<td>75</td>
<td>160 (6.3)</td>
<td>160.5 (6.32)</td>
<td>63 (2.48)</td>
<td>49 (1.93)</td>
<td>24 (0.94)</td>
<td>87 (3.43)</td>
<td>76.2 (3)</td>
<td>Ø75 (2.95)</td>
<td>152 (5.98)</td>
<td>110 (4.33)</td>
<td>203 (8)</td>
<td>190.5 (7.5)</td>
<td>152.4 (6)</td>
<td>4 x M</td>
</tr>
<tr>
<td>4</td>
<td>100</td>
<td>196 (7.72)</td>
<td>181 (7.13)</td>
<td>71 (2.8)</td>
<td>50 (1.97)</td>
<td>24 (0.94)</td>
<td>87 (3.43)</td>
<td>76.2 (3)</td>
<td>Ø100 (3.94)</td>
<td>177 (6.97)</td>
<td>130 (5.12)</td>
<td>229 (9)</td>
<td>190.5 (7.5)</td>
<td>190.5 (7.5)</td>
<td>8 x M</td>
</tr>
<tr>
<td>6</td>
<td>150</td>
<td>196 (7.72)</td>
<td>181 (7.13)</td>
<td>71 (2.8)</td>
<td>50 (1.97)</td>
<td>24 (0.94)</td>
<td>87 (3.43)</td>
<td>76.2 (3)</td>
<td>Ø150 (6.06)</td>
<td>202.7 (7.98)</td>
<td>152.5 (6)</td>
<td>266.5 (10.5)</td>
<td>280 (11)</td>
<td>241.3 (9.5)</td>
<td>8 x M</td>
</tr>
</tbody>
</table>

**Diagram:**

- BCD J H G F B V 4 x M THRU
- HW C D E
- V4

**Notes:**
- Dimensions are in millimeters (mm) and inches (in).
- NPT refers to National Pipe Thread.
- BCD and M THRU indicate the mounting style for actuators.
- The table provides dimensions for various valve sizes, including A, B, C, D, E, HW, F, V, G, H, I, J, BCD, and the number of M THRU connections (n x M).