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

ASCO 8551 Direct Mount Solenoid
Watt Rating and Power Consumption

<table>
<thead>
<tr>
<th>Watt</th>
<th>DC/AC Watts</th>
<th>VA Holding</th>
<th>VA Inrush</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.9</td>
<td>6.3</td>
<td>7</td>
<td>10.1</td>
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</tbody>
</table>

Temperature Range: AC 5°F to 140°F [-15°C to 60°C]
DC 5°F to 77°F [-15°C to 25°C]

ALS-100 Limit Switch (Optional)
Position Indicator | Polycarbonate Dome
Switches | 2x SPDT 5A 125-250 VAC micro-switches
Terminal Strip | Standard 8 Points
Cable Entry | 2x 1/2" NPT
Mounting | NAMUR Standard shaft and bracket

VRC Model V Series Positioner
VP - Pneumatic 3-15 PSI
VE - Electro-Pneumatic 4-20mA (Optional)
Position Indicator: Flat Lens - Dome Lens (Optional)

PERFORMANCE
RESOLUTION | 0.25% Maximum
            | 0.10% Typical
REPEATABILITY | 99.75% Minimum
              | 99.90% Typical
HYSTERESIS | 0.50% Maximum
            | 0.25% Typical
LINEARITY | +/- 1.0% Maximum
GAIN @80 PSIG | 250 Single-Acting
              | 500 Double-Acting
AIR CONSUMPTION @80 PSIG | 0.25 SCFM
                            | Standard Flow Spool Valve
                            | 0.45 SCFM
                            | Maximum Flow Spool Valve
TEMPERATURE RANGE | -40 to 150°F / -40 to 65°C

SERIES V with DIRECT ACTING ACTUATORS

<table>
<thead>
<tr>
<th>INCH</th>
<th>DN(MM)</th>
<th>BODY</th>
<th>Cv 75°</th>
<th>Cv 90°</th>
<th>VSI PART NUMBER</th>
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<tbody>
<tr>
<td>1&quot;</td>
<td>25</td>
<td>150/300</td>
<td>24</td>
<td>31</td>
<td>V-01/C-DA045/WT8551</td>
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<tr>
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<td>V-01/C-DA045/VP7</td>
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<td>40</td>
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<td>55</td>
<td>73</td>
<td>V-15/C-DA045/WT8551</td>
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<td>2&quot;</td>
<td>50</td>
<td>150/300</td>
<td>77</td>
<td>96</td>
<td>V-02/C-DA063/WT8551</td>
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<tr>
<td>3&quot;</td>
<td>80</td>
<td>150</td>
<td>207</td>
<td>270</td>
<td>V-03/C-DA063/WT8551</td>
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<td>100</td>
<td>150</td>
<td>350</td>
<td>529</td>
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<td>150</td>
<td>507</td>
<td>850</td>
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<td>V-06/C-DA092/VP7</td>
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</table>

Please specify fail position and solenoid voltage when ordering.

MINIMUM AIR SUPPLY: 40 psi
MAXIMUM AIR SUPPLY: 130 psi
TORQUE RANGE: 124 - 40519 in/lb [-80 psi]
HOUSING: Die Cast Aluminum Alloy
TEMPERATURE: 0°C to +80°C
        -20°C to +80°C with dry air
        -40°C to +150°C in special execution
OPERATING MEDIA: Compressed filtered air
Standard NAMUR mounts for optional accessories

DOUBLE ACTING OPERATION (DA)

CCW
Air is supplied to Port A forcing the pistons away from each other [towards ends], rotating the drive pinion counterclockwise and exhausting air out of Port B

CW
Air is supplied to Port B forcing the pistons toward each other [towards center], rotating the drive pinion clockwise and exhausting air out of Port A
## Direct Acting High Pressure Pneumatic Actuators

### 1" - 6" High Performance Segmented Ball Valves

### Dimensional Information

#### Dimensions

<table>
<thead>
<tr>
<th>Valve Size</th>
<th>Actuator</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>BCD</th>
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<td>116.5</td>
<td>4.59</td>
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#### Notes

- *WT8551 34.75 (1.37)*
- **VP(E)7 - FLAT 132 (5.20)**
- **VP(E)9 - DOME 163.5 (6.44)**
- *ALS-100 160 (6.30)*
- **2 Position Parts WT8551 Standard ALS-100 Optional**
- **Modulating Parts VP7 Standard VE7 or VP(E)9 Optional**

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**DIMENSIONAL INFORMATION**

**REV. B**

**VSI SERIES V - SERIES C**

DIRECT ACTING HIGH PRESSURE PNEUMATIC ACTUATORS

1" - 6" HIGH PERFORMANCE SEGMENTED BALL VALVES