

Application
Water-side control of air handling apparatus in ventilation and air-conditioning system.
Water/Steam control in heating systems.
300:1 rangeability.
The dimensions and drilling of end flanges conform to the American cast iron flange standard, Class 150 (ANSI B16.1).

Product Features
Fast quarter turn open or closed operation, Stainless steel ball and stem, Positive shut-off, Two piece body construction

Suitable Actuators

| B6300VB-207 | Non-Spring <br> SY1, AMB(X), <br> PRB(X) | Spring | Electronic Fail-Safe |
| :---: | :---: | :---: | :---: |

Dimensions (Inches [mm])


AMB, AMX

| A | B | C | D | E | F | H1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $12.6^{\prime \prime}$ | $8 "[203]$ | $16.35 "$ | $12.05 "$ | $3.75 "[95]$ | $1.39 "[34]$ |  |
| $[320]$ |  | $[415]$ | $[306]$ |  |  |  |



## Dimensions (Inches [mm])



SY1

| A | B | C | D | E | F | J |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $3.87 "$ | $8^{\prime \prime}[203]$ | $18.9 "$ | $14.59^{\prime \prime}$ | $3.75 "[95]$ | $23.4^{\prime \prime}$ |  |
| $[784]$ |  | $[480]$ | $[371]$ |  | $[594]$ |  |


| A | B | C | D | E | F | H1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $13^{\prime \prime}[332]$ | $8 "[203]$ | $17.03^{\prime \prime}$ | $12.73^{\prime \prime}$ | $3.75^{\prime \prime}[95]$ | $1.39^{\prime \prime}[34]$ |  |
|  |  | $[433]$ | $[323]$ |  |  |  |

Dimensions (Inches [mm])


2*AFB, 2*AFX

B6300VB-207, 3", V Ball Control Valve Carbon Steel Body, Hardened Chrome Plated, Stainless Steel Ball and Stem



| Technical Data |  |
| :---: | :---: |
| Power Supply | $\begin{aligned} & \text { 24... } 240 \text { VAC, }-20 \% /+10 \%, 50 / 60 \mathrm{~Hz}, \\ & 24 . . .125 \text { VDC, } \pm 10 \% \end{aligned}$ |
| Power Consumption Running | 7.5 W |
| Power Consumption Holding | 3.5 W |
| Transformer Sizing | 7 VA @ 24 VAC (class 2 power source), 8.5 VA @ 120 VAC, 18 VA @ 240 VAC |
| Electrical Connection | (2) $3 \mathrm{ft}[1 \mathrm{~m}], 18 \mathrm{GA}$ appliance cables with $1 / 2^{\prime \prime}$ conduit connectors |
| Overload Protection | electronic throughout $0^{\circ}$ to $95^{\circ}$ rotation |
| Operating Range Y | on/off |
| Feedback Output U | No Feedback |
| Angle of Rotation | $95^{\circ}$, |
| Torque motor | 180 in-lbs [20 Nm] |
| Direction of Rotation (Motor) | reversible with CW/CCW mounting |
| Direction of Rotation (Fail-Safe) | reversible with CW/CCW mounting |
| Position Indication | visual indicator, $0^{\circ}$ to $95^{\circ}\left(0^{\circ}\right.$ is full spring return position) |
| Manual Override | 5 mm hex crank (3/16" Allen), supplied |
| Running Time (Motor) | $<75 \mathrm{sec}$ |
| Running Time (Fail-Safe) | <20 sec |
| Ambient Humidity | max. 95\% RH non-condensing |
| Ambient Temperature Range | $-22^{\circ} \mathrm{F}$ to $122^{\circ} \mathrm{F}\left[-30^{\circ} \mathrm{C}\right.$ to $\left.50^{\circ} \mathrm{C}\right]$ |
| Storage Temperature Range | $-40^{\circ} \mathrm{F}$ to $176{ }^{\circ} \mathrm{F}\left[-40^{\circ} \mathrm{C}\right.$ to $80^{\circ} \mathrm{C}$ ] |
| Housing | IP54, NEMA 2, UL Enclosure Type 2 |
| Housing Material | zinc coated metal and plastic casing |
| Agency Listings $\dagger$ | cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC and 2006/95/EC |
| Noise Level (Motor) | $<50 \mathrm{~dB}$ (A) |
| Noise Level (Fail-Safe) | $<62 \mathrm{~dB}(\mathrm{~A})$ |
| Servicing | maintenance free |
| Quality Standard | IS0 9001 |
| Weight | 4.6 lb [2.1 kg] |
| Auxiliary switch | $2 \times$ SPDT, 3 A resistive ( 0.5 A inductive) @ 250 VAC , one set at $10^{\circ}$, one adjustable $10^{\circ}$ to $90^{\circ}$ |
| Degree of Protection IEC/EN | IP54 |

$\dagger$ Rated Impulse Voltage 4kV, Type of Action 1.AA.B, Control Pollution Degree 3.

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WARNING! LIVE ELECTRICAL COMPONENTS!
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.
Meets cULLs requirements without the need of an electrical ground connection.

Actuators with appliance cables are numbered.
Universal Power Supply (UP) models can be supplied with 24 VAC up to 240 VAC, or 24 VDC up to 125 VDC.

Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches. Mixed or combined operation of line voltage/safety extra low voltage is not allowed.

Provide overload protection and disconnect as required.


Actuators may also be powered by 24 VDC.
Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc.

Actuators may be powered in parallel. Power consumption must be observed.

Parallel wiring required for piggy-back applications.


Auxiliary Switches

