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





Application

Water-side control of air handling apparatus in ventilation and air-conditioning system.

Water/Steam control in heating systems.

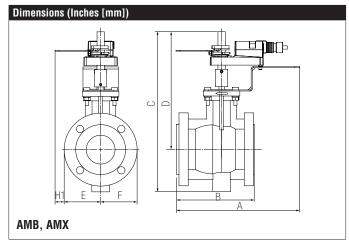
300:1 rangeability.

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 | | | | | |
|--------------------|------------------------|--------|----------------------|--|--|
| | Non-Spring | Spring | Electronic Fail-Safe | | |
| B6300VB-207 | SY1, AMB(X), PRB(X) | AFB(X) | GK, PKRB(X) | | |

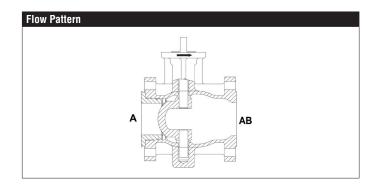


|] | А | В | С | D | E | F | H1 |
|---|-------|----------|--------|--------|------|--------|------------|
| _ | 12.6" | 8" [203] | 16.35" | 12.05" | 3.75 | " [95] | 1.39" [34] |
| | [320] | | [415] | [306] | | | |

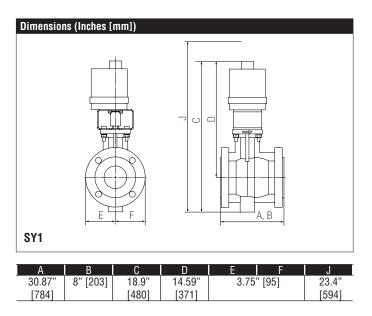
| YEAR WARRANTY | | YEAR |
|------------------|--|------|
|------------------|--|------|

| Technical Data | |
|--|---|
| Service | chilled or hot water, up to 60% glycol, |
| | steam |
| Flow Characteristic | equal percentage |
| Controllable Flow Range | 75° |
| Valve Size | 3 " [80] |
| End Fitting | NPT female ends (1" to 2"); ISO flange (3" to 6") |
| Body | WCC Grade Carbon steel |
| Ball | stainless steel |
| Stem | stainless steel |
| Stem Packing | spring loaded Teflon® V-ring |
| Seat | Teflon® |
| Body Pressure Rating | {415_with_label} |
| ANSI Class | 150 |
| Max Inlet Pressure (Steam) | 200 psi |
| Media Temperature Range (Water) | -22°F to 380°F [-30°C to 193°C] |
| Media Temperature Range (Steam) | -22°F to 380°F [-30°C to 193°C] |
| Maximum Differential Pressure (Steam) | 100 psi |
| Max Differential Pressure (Water) | 150 psi |
| Maximum Differential Pressure Steam (Rotary Actuator) | 100 psi |
| Close-Off Pressure | 150 psi |
| Close-Off Pressure (Steam) | 200 psi |
| Rangeability | 300:1 |
| Cv | 207 |
| Weight | 37.5 lb [17 kg] |
| Leakage | ANSI Class IV |
| Servicing | repack/rebuild kits available |

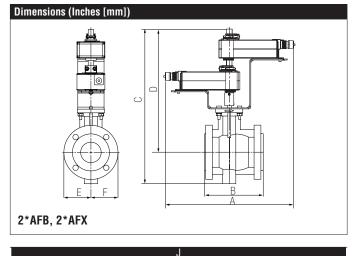




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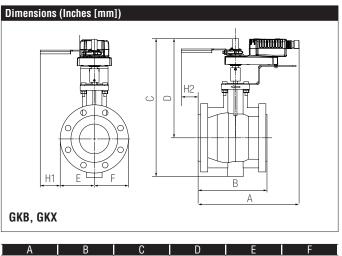
| А | В | C | D | E | F | H1 |
|-----------|----------|--------|--------|------|--------|------------|
| 13" [332] | 8" [203] | 17.03" | 12.73" | 3.75 | " [95] | 1.39" [34] |
| | | [433] | [323] | | | |



J 30.34" [770]







| А | В | C | D | E | F |
|--------|----------|--------|--------|------|--------|
| 17.11" | 8" [203] | 21.55" | 17.25" | 3.75 | " [95] |
| [435] | | [547] | [438] | | |



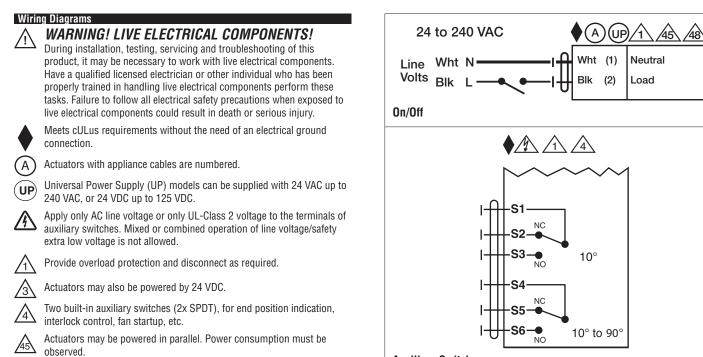


| Technical Data | |
|-----------------------------------|--|
| Power Supply | 24240 VAC, -20% / +10%, 50/60 Hz, |
| | 24125 VDC, ±10% |
| Power Consumption Running | 7.5 W |
| Power Consumption Holding | 3.5 W |
| Transformer Sizing | 7 VA @ 24 VAC (class 2 power source), 8.5 |
| | VA @ 120 VAC, 18 VA @ 240 VAC |
| Electrical Connection | (2) 3ft [1m], 18 GA appliance cables with |
| | 1/2" conduit connectors |
| Overload Protection | electronic throughout 0° to 95° rotation |
| Operating Range Y | on/off |
| Feedback Output U | No Feedback |
| Angle of Rotation | 95°, |
| 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° to 95° (0° is full spring |
| MarcalQuerile | return position) |
| Manual Override | 5 mm hex crank (3/16" Allen), supplied |
| Running Time (Motor) | <75 sec |
| Running Time (Fail-Safe) | <20 sec |
| Ambient Humidity | max. 95% RH non-condensing |
| Ambient Temperature Range | -22°F to 122°F [-30°C to 50°C] |
| Storage Temperature Range | -40°F to 176°F [-40°C to 80°C] |
| Housing | IP54, NEMA 2, UL Enclosure Type 2 |
| Housing Material | zinc coated metal and plastic casing |
| Agency Listings† | cULus acc. to UL60730-1A/-2-14, CAN/CSA |
| | E60730-1:02, CE acc. to 2004/108/EC and |
| Naina Laval (Matar) | 2006/95/EC |
| Noise Level (Motor) | <50 dB (A) |
| Noise Level (Fail-Safe) | <62 dB (A) |
| Servicing | maintenance free |
| Quality Standard | ISO 9001 |
| Weight | 4.6 lb [2.1 kg] |
| Auxiliary switch | 2 x SPDT, 3A resistive (0.5A inductive) @ |
| | 250 VAC, one set at 10°, one adjustable 10° to 90° |
| Degree of Protection IEC/EN | IP54 |
| Degree of Freedom ILO/LN | |

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



/48



Auxiliary Switches

Parallel wiring required for piggy-back applications.