

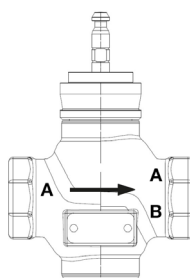
## G220S-J Technical Data Sheet



### Technical Data

|                                       |   |
|---------------------------------------|---|
| Fluid                                 | chilled or hot water, up to 60% glycol, steam |
| Flow characteristic                   | modified equal percentage                     |
| Controllable flow range               | stem up - open A – AB                         |
| Valve Size [mm]                       | 0.75" [20]                                    |
| Pipe connection                       | NPT female ends                               |
| Housing                               | Bronze  |
| Stem                                  | 316 stainless steel                           |
| Stem seal                             | EPDM O-ring                                   |
| Seat                                  | Stainless steel AISI 316                      |
| Valve plug                            | 316 stainless steel                           |
| Body Pressure Rating                  | ANSI Class 250, up to 400 psi below 150°F     |
| ANSI Class                            | 250   |
| Maximum Inlet Pressure (Steam)        | 100 psi [690 kPa]                             |
| Max Differential Pressure (Steam)     | 50 psi [345 kPa]                              |
| Maximum differential pressure (water) | 50 psi (345 kPa)                              |
| Rangeability Sv                       | 100:1   |
| Cv                                    | 5.5   |
| Weight                                | 2.0 lb [0.9 kg]                               |
| Fluid Temp Range (water)              | 20...338°F [-7...170°C]                       |
| Leakage rate                          | ANSI Class VI                                 |
| Servicing                             | repack kits available                         |

### Flow/Mounting Details



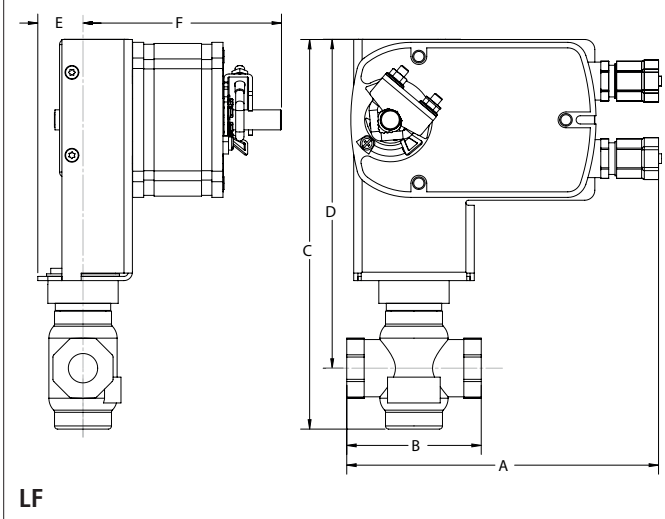
### Application

This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include unit ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in hydronic systems with variable flow. Bronze and stainless steel trim valves can be used for steam applications, depending on actuator and close-off combinations.

### Suitable Actuators

|         | Non-Spring | Spring | Electronic fail-safe |
|---------|------------|--------|----------------------|
| G220S-J | LVB(X)     | LF     | LVKB(X)              |

### Dimensions (Inches [mm])



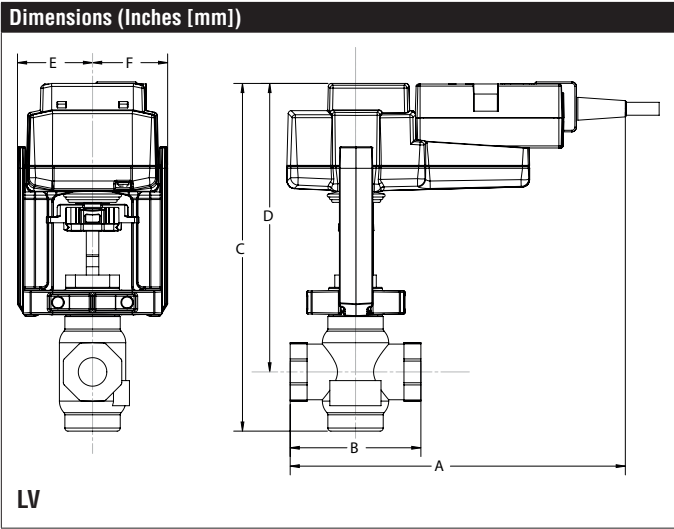
| A          | B         | C          | D          | E         | F          |
|------------|-----------|------------|------------|-----------|------------|
| 7.9" [200] | 3.4" [86] | 9.7" [247] | 8.2" [208] | 1.2" [30] | 4.9" [125] |

### Safety Notes

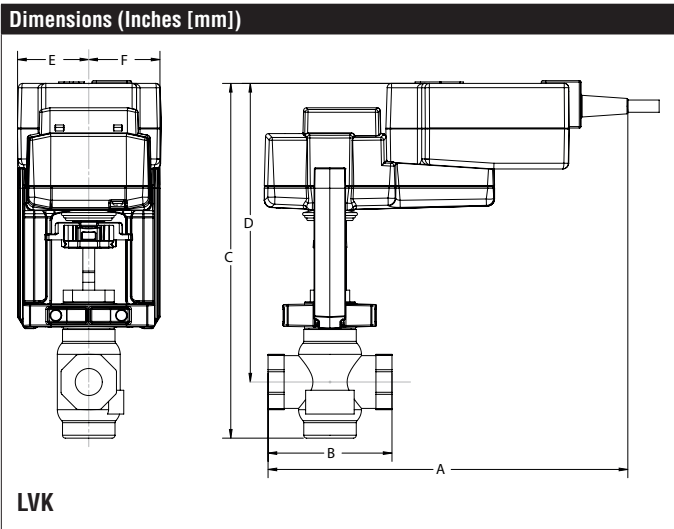
**WARNING:** This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

### Piping

The valves should be mounted in a weather-protected area in a location that is within the ambient limits of the actuator. Allow sufficient room for valve with actuator and for service. The G2 and G3 preferred mounting position of the valve is with the valve stem vertical above the valve body, for maximum life. However, the assemblies can be mounted with the valve stem vertical or horizontal in relation to the pipe. The actuators should never be mounted underneath the valve, as condensation can build up and result in a failure of the actuators.



| A          | B         | C          | D          | E         | F |
|------------|-----------|------------|------------|-----------|---|
| 8.6" [218] | 3.4" [86] | 8.9" [226] | 7.4" [188] | 1.9" [48] |   |



| A          | B         | C          | D          | E         | F |
|------------|-----------|------------|------------|-----------|---|
| 9.7" [246] | 3.4" [86] | 9.6" [244] | 8.1" [206] | 1.9" [48] |   |