

# Technical data sheet

# **ZONE220N-50**





# Type overview

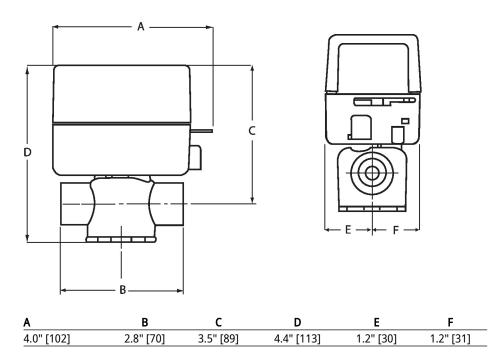
| Туре        | DN |
|-------------|----|
| ZONE220N-50 | 20 |
|             | 20 |

# Technical data

| Functional data    | Valve size [mm]  | 0.75" [20]                             |
|--------------------|--|--|
|                    | Fluid  | chilled or hot water, up to 50% glycol |
|                    | Fluid Temp Range (water)   | 32212°F [0100°C]                       |
|                    | Body Pressure Rating   | 300 psi                                |
|                    | Close-off pressure ∆ps   | 25 psi                                 |
|                    | Flow characteristic  | on/off                                 |
|                    | Flow Pattern   | 2-way                                  |
|                    | Leakage rate   | ANSI Class III 0.1%                    |
|                    | Cv   | 5                                      |
| Materials          | Valve body   | forged brass                           |
|                    | Housing seal   | EPDM                                   |
|                    | Spindle  | stainless steel                        |
|                    | Seat   | EPDM                                   |
|                    | Pipe connection  | NPT female ends                        |
| Suitable actuators | Spring   | ZONE                                   |
| Product features   |  |  |
| Application        | This valve is typically used on fan coil units, baseboards or other hydronic applications where fail safe operation on 2-wire control is required. This valve is suitable for use in a hydronic system with variable or constant flow. |  |
|                    | This valve is designed to fit in compact areas where on/off or control is required using 24 VAC or 120 VAC.  |  |
| Dimensions         |  |  |
| Туре               |  | DN                                     |
| ZONE220N-50        |  | 20                                     |









### **ZONE120NO-S**





### **Technical data**

| Electrical data | Nominal voltage                     | AC 120 V   |
|-----------------|-------------------------------------|--|
|                 | Nominal voltage frequency           | 50/60 Hz   |
|                 | Power consumption in operation      | 6.5 W  |
|                 | Transformer sizing                  | 7 VA (class 2 power source)                            |
|                 | Auxiliary switch                    | 1 x SPST, 5 A resistive (5 A inductive) @ AC 120<br>V, |
|                 | Switching capacity auxiliary switch | 5 A resistive (5 A inductive) @ AC 120 V               |
|                 | Electrical Connection               | 6" wire leads  |
| Functional data | Angle of rotation                   | 90°  |
|                 | Running time fail-safe              | <5 s Variable: 2.510 s                                 |
|                 | Noise level, motor                  | 35 dB(A)   |
|                 | Noise level, fail-safe              | 35 dB(A)   |
| Safety data     | Degree of protection IEC/EN         | IP20   |
|                 | Degree of protection NEMA/UL        | NEMA 1   |
|                 | Enclosure                           | UL Enclosure Type 1                                    |
|                 | Agency Listing                      | CE, cULus  |
|                 | Quality Standard                    | ISO 9001   |
|                 | Ambient temperature                 | 32104 [040°C]  |
|                 | Storage temperature                 | -40176°F [-4080°C]                                     |
|                 | Ambient humidity                    | Max. 95% RH, non-condensing                            |
|                 | Servicing                           | maintenance-free                                       |
| Materials       | Housing material                    | galvanized steel                                       |

### **Electrical installation**



Meets cULus requirements without the need of an electrical ground connection. One built-in auxiliary switch, 1x SPST 0.4A @ 24 VAC (resistive and inductive loads).



## Wiring diagrams

Built-in Auxiliary Switch (optional) (only on -S models)

