Valves



Product Literature

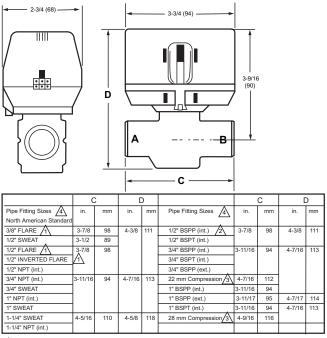
Installation Instructions—95C-10919 Specification Data—95C-10750 Product Data—95C-10789

| | lea e | | | |
|--|--|--|--|--|
| Valve Type | Unitary | | | |
| Body Pattern | Two-way, straight through | | | |
| Controlled Medium | Water w/max of 50% Glycol | | | |
| Stem Travel | 0.4 in. (10 mm) | | | |
| Valve Action | Stem up to close A port | | | |
| Maximum Operating Pressure | 300 psi (20 Bar) | | | |
| Maximum Close-off Pressure | 60 psi (4 Bar) | | | |
| Timing (sec, min.) when used with VC series Actuator | On/Off models with 6 sec; Floating and modulating with 2 min. | | | |
| Fluid Temperature Range | 36 F to 230 F (1 C to 95 C) | | | |
| Ambient Temperature Range | 32 F to 150 F (0 C to 65 C) | | | |
| Materials | | | | |
| (Body) | Bronze | | | |
| (Stem) | Stainless Steel | | | |
| (Cartridge) | Ryton®, Noryl® engineering plastic | | | |
| (Packing) | EPDM rubber | | | |
| Comments | Characterized cartridge for use with floating and modulating actuators | | | |
| Approvals: | | | | |
| Canadian Standards Association | CSA Certified | | | |

VCZA; VCZB Two-way Cartridge Cage Valves

Two-way Cartridge Cage Valves. These 2-position (open/closed) hydronic valves are intended for use in a normal indoor environment to control the flow of hot and/or cold water, or glycol solution to 50% concentration. These valves are designed for on-off zone control of heating/cooling systems, or to control individual fan coil, baseboard radiator or convector applications. Depending on the model selected they can be controlled by either a low or line voltage SPST or SPDT controller, such as a room thermostat, aquastat or flow switch. For trouble-free operation of the product, good installation practice must include initial system flushing, chemical water treatment, and the use of a 50 micron (or finer) system side stream filter(s). Remove all filters before flushing.

Dimensions Diagram



NO ADAPTERS

M18942

SUITABLE FOR USE AS15 MM COMPRESSION FITTING

DIMENSIONS SHOWN WITH NUTS AND OLIVES INSTALLED

ASOME MODELS NOT AVAILABLE IN ALL COUNTRIES

Valves

| Product Number | Pipe Size | | | Fitting | Capacity | | | | |
|-------------------|-----------|------|--------------------|---------------|----------|---------|------------------------|--|-------------------------|
| | (inch) | DN | Connection Type | Size (in.) | (Cv) | (Kv) | Flow Characteristic | Comments | Includes |
| VCZAA1500 | 1/2 in. | DN15 | Sweat | _ | 0.7 Cv | 0.6 Kv | Equal Percentage | It can be controlled by either a low or a line voltage spdt or spst or floating controller | Cartridge changing tool |
| VCZBB1500 | 1/2 in. | DN15 | Female NPT | _ | 0.7 Cv | 0.6 Kv | Equal Percentage | _ | _ |
| VCZAA1600 | 1/2 in. | DN15 | Sweat | _ | 1.3 Cv | 1.1 Kv | Equal Percentage | _ | Cartridge changing tool |
| VCZBB1600 | 1/2 in. | DN15 | Female NPT | | 1.3 Cv | 1.1 Kv | Equal Percentage | _ | _ |
| VCZAA1400 | 1/2 in. | DN15 | Sweat | _ | 2.9 Cv | 2.5 Kv | Equal Percentage | It can be controlled by either a low or a line voltage spdt or spst or floating controller | Cartridge changing tool |
| VCZBB1400 | 1/2 in. | DN15 | Female NPT | _ | 2.9 Cv | 2.5 Kv | Equal Percentage | It can be controlled by either a low or a line voltage spdt or spst or floating controller | _ |
| VCZAE1100 | 1/2 in. | DN15 | Inverted Flare | 5/8 in. | 3.2 Cv | 2.74 Kv | Linear | It can be controlled by either a low or a line voltage spdt or spst or floating controller | _ |
| VCZAA1100 | 1/2 in. | DN15 | Sweat | _ | 3.5 Cv | 3 Kv | Linear | It can be controlled by either a low or a line voltage spdt or spst or floating controller | Cartridge changing tool |
| VCZBB1100 | 1/2 in. | DN15 | Female NPT | _ | 3.5 Cv | 3 Kv | Linear | It can be controlled by either a low or a line voltage spdt or spst or floating controller | _ |
| VCZAL1600 | 3/4 in. | DN20 | Female NPT | _ | 1.3 Cv | 1.1 Kv | Equal Percentage | _ | _ |
| VCZAL1400 | 3/4 in. | DN20 | Female NPT | _ | 3.9 Cv | 3.4 Kv | Equal Percentage | It can be controlled by either a low or a line voltage spdt or spst or floating controller | _ |
| VCZAM1400 | 3/4 in. | DN20 | Sweat | _ | 3.9 Cv | 3.4 Kv | Equal Percentage | It can be controlled by either a low or a line voltage spdt or spst or floating controller | Cartridge changing tool |
| VCZAM1100 | 3/4 in. | DN20 | Sweat | | 4.6 Cv | 3.9 Kv | Linear | It can be controlled by either a low or a line voltage spdt or spst or floating controller | Cartridge changing tool |
| VCZAL1100 | 3/4 in. | DN20 | Female NPT | _ | 4.7 Cv | 4 Kv | Linear | It can be controlled by either a low or a line voltage spdt or spst or floating controller | _ |
| VCZAR1400 | 1 in. | DN25 | Female NPT | _ | 4.2 Cv | 3.6 Kv | Equal Percentage | It can be controlled by either a low or a line voltage spdt or spst or floating controller | _ |
| VCZAS1400 | 1 in. | DN25 | Sweat | | 4.2 Cv | 3.6 Kv | Equal Percentage | It can be controlled by either a low or a line voltage spdt or spst or floating controller | Cartridge changing tool |
| VCZAR1100 | 1 in. | DN25 | Female NPT | _ | 6.6 Cv | 5.7 Kv | Linear | It can be controlled by either a low or a line voltage spdt or spst or floating controller | _ |
| VCZAS1100 | 1 in. | DN25 | Sweat | | 6.6 Cv | 5.7 Kv | Linear | It can be controlled by either a low or a line voltage spdt or spst or floating controller | Cartridge changing tool |
| VCZBD1100 | 1 1/4 in. | DN32 | Female NPT | _ | 7 Cv | 6 Kv | Linear | It can be controlled by either a low or a line voltage spdt or spst or floating controller | _ |
| VCZBE1100 | 1 1/4 in. | DN32 | Sweat | _ | 7 Cv | 6 Kv | Linear | It can be controlled by either a low or a line voltage spdt or spst or floating controller | Cartridge changing tool |