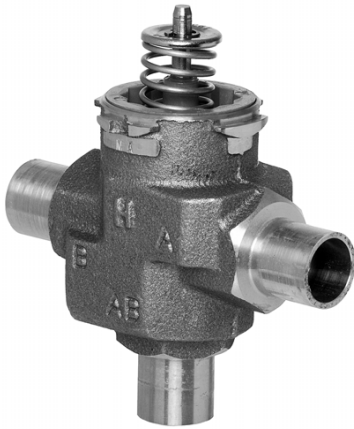


Cartridge Cage Valves

VCZM; VCZN Three-way Cartridge Cage Valves



Dimensions, Approximate: Body Pattern: Three-way
Valve Type: Unitary
Controlled Medium: Water w/max of 50% Glycol
Ambient Temperature Range: 32 F to 150 F (0 C to 65 C)
Fluid Temperature Range: 34 F to 203 F (1 C to 95 C)
Timing (sec, min) when used with VC series Actuator:
 On, off models: 6 sec
 Floating and modulating models: 2 min.
Maximum Close-Off Pressure: 60 psi (4 Bar)
Maximum Operating Pressure: 300 psi (20 Bar)

These two position 3-way 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 can be piped for either diverting or mixing valve applications in central heating and/or cooling systems; or for individual fan coil, 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.

Do not use boiler additives, solder flux and wetted materials which are petroleum based or contain mineral oil, hydrocarbons, or ethylene glycol acetate. Compounds which can be used, with minimum 50% water dilution, are diethylene glycol, ethylene glycol, and propylene glycol (antifreeze solutions).

Comments: characterized cartridge for use with floating and modulating actuators. It can be controlled by either a low or a line voltage spdt or spst or floating controller.

Approvals:

Canadian Standards Association: CSA Certified

Materials:

Body	Stem	Packing O-Rings	Cartridge
Bronze	Stainless Steel	EPDM rubber	Ryton™, Noryl™ engineering plastic

Product Number	Nominal Pipe Size	Capacity		Flow Characteristics	Pipe Connections	Valve Action	Fitting Size	Includes
		Cv	Kv					
VCZMA6100	1/2 in.	3.8 Cv	3.3 Kv	Linear	Sweat	Stem up to close A port	—	Cartridge changing tool
VCZMC6100	1/2 in.	3.8 Cv	3.2 Kv	Linear	Flare	Stem up to close A port	5/8 in.	—
VCZMD6100	1/2 in.	3.2 Cv	2.7 Kv	Linear	Inverted Flare	Stem up to close A port	—	—
VCZMK6100	3/4 in.	6.6 Cv	5.7 Kv	Linear	Female NPT	Stem up to close A port	—	—
VCZML6100	3/4 in.	5.9 Cv	5.1 Kv	Linear	Sweat	Stem up to close A port	—	Cartridge changing tool
VCZMR6100	1 in.	8.6 Cv	7.4 Kv	Linear	Female NPT	Stem up to close A port	—	—
VCZMS6100	1 in.	9 Cv	7.8 Kv	Linear	Sweat	Stem up to close A port	—	Cartridge changing tool
VCZNB6100	1/2 in.	3.7 Cv	3.2 Kv	Linear	Female NPT	Stem up to close A port	—	—
VCZND6100	1 1/4 in.	9 Cv	7.8 Kv	Linear	Female NPT	Stem up to close A port	—	—
VCZNE6100	1 1/4 in.	9 Cv	7.8 Kv	Linear	Sweat	Stem up to close A port	—	Cartridge changing tool

* TRADELINE models • SUPER TRADELINE models