

VC1000, VC6000 Series

REPLACEMENT CARTRIDGES FOR 2-WAY & 3-WAY VC VALVES

INSTALLATION INSTRUCTIONS

CAUTION

1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Always conduct a thorough checkout when installation is completed.

INSTALLATION OF REPLACEMENT CARTRIDGE

IMPORTANT

Installation of a replacement cartridge requires draining the hydronic system or isolating the valve from the system.

1. Check replacement part number for match with the old cartridge assembly for suitability with your valve.

NOTE: VC1000 series cartridges are used for 2-way VC valves. VC6000 series cartridges are used for 3-way VC valves.

2. Disconnect power supply before servicing to avoid electrical shock or equipment damage.
3. Depending on the installation, it may be necessary to disconnect leadwires to valve actuator, or depress tab on Molex™ connector and remove. Where appropriate, label wires for rewiring.
4. Remove valve actuator by pressing up on the latch mechanism located directly below the red manual open lever with thumb (See Fig. 1). Simultaneously press the actuator down towards the valve body with moderate hand force and turn the actuator counter-clockwise by 1/8 turn (45°). Lift actuator off the valve body.

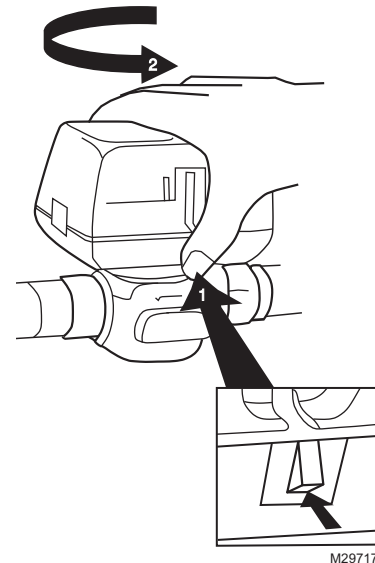


Fig. 1.

5. Unscrew old cartridge from valve with supplied wrench (See Fig. 2). It may be necessary to use pliers or other tools to remove the old cartridge due to calcium or dirt buildup in the valve body.

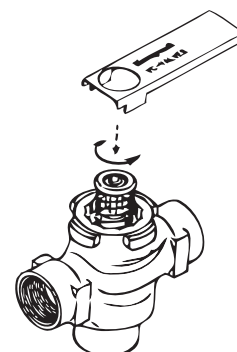


Fig. 2.



6. Clean the valve surfaces shown* (Fig. 3) to ensure the new cartridge O-rings seal at these points. Use care to avoid damage to these surfaces. (** for 3-way valves only).

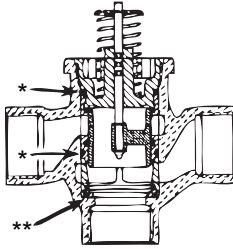


Fig. 3.

7. Remove the prelubricated cartridge assembly from plastic bag. Insert into the valve body and tighten down with enclosed wrench until it bottoms out. DO NOT OVER TIGHTEN (maximum torque is 40 in-lb). The top plastic surface of the cartridge will be flush with the top edge of the body casting.

8. Replace valve actuator by reversing the process in (5).

NOTE: The actuator head is automatically latched to the valve.

9. Reconnect leadwires or Molex™ connector if necessary.
10. Refill hydronic system or restore system flow by opening isolating valves.
11. Restore power, and checkout operation of cartridge in valve, making sure of no internal seat leakage or external body leakage.

NOTE: Do not use boiler additives which are petroleum based or contain mineral oil, or ethylene glycol acetate. Compounds which can be used are diethylene glycol, ethylene glycol, and propylene glycol.

Automation and Control Solutions

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