

Product Bulletin

Date: 27.06.2024

Subject: **2024 – High flow VC 5/4" changeover valve**

Distribution List: Sales EMEA

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the legacy VC valve portfolio is going to be extended by a new size 5/4" changeover valve

This update is about:

- New 5/4" changeover VC valve
- Updated On/Off VC valves documentation

Best regards,
Jan Filip

Approved by:

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resideo

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1. Summary

During the last years a demand on a changeover valve with higher flow coefficient (kv) has become higher. A new size 5/4" has been added to our VC changeover valves to close the gap in the portfolio

VCZMU6000/U has the following advantages:

Designed to handle up to 4 bars of pressure differential, it's ideal for heat pump installations and larger heating systems.

- **High kv:** a 5/4" 3-way high flow valve has kv=11 in B-AB direction
- **High differential pressure:** Designed to handle up to 4 bars of pressure differential
- **Highly compatible:** the VCZMU6000 can be combined with any ON/OFF 230V or 24V actuator from the VC portfolio
- **Flexible use :** can be piped for either diverting or mixing valve applications in domestic central heating and cooling systems.



2. Product and ordering Information

Two products will be added to the portfolio

Description	Item number
3-way VC valve with 5/4" external thread , kv=11 (B-AB direction)	VCZMU6000/U



Additional connection accessory kit for easier installation of the new valve VCZMU6000/U requested by some markets is also added

Description	Item number
Flat connection set for the VCZMU6000 (Consisting of one union nut, one tailpiece with external thread and one gasket)	ASVC-CS-25-O-F



The branding for both of these products will become "Honeywell Home " as all of the items in the VC series.



3. Datasheet

The VC On/off datasheet has been updated and will be placed to the www page . The main changes are that the Kvs values of all the listed valves have been re-measures by the laboratory in Nagykanizsa and corrected.

Honeywell Home



VC Series

Balanced 2-Way and 3-Way Hydronic Valves

Application

VC Series balanced 2-position hydronic valves are used in domestic and small commercial heating and cooling applications to control the flow of hot and/or cold water. They consist of an actuator, valve and a cartridge assembly. 2-way valves are designed for on-off zone control of domestic systems. 3-way valves can be piped for diverting applications in domestic central heating and/or cooling systems. Both versions can be used to control individual fan coil, radiator, space heater or convector applications. They can be controlled by a line voltage SPST or SPDT controller such as a room thermostat, aquastat or flow switch. VC Series hydronic valves are designed to take advantage of sinusoidal valve actuator travel, and therefore operate silently and reduce water hammer. Through internal logic the actuator only takes power while driving the valve to the commanded position. The actuator head is removable without affecting the integrity of the water system. All actuator versions are interchangeable with any valve body, offering the highest flexibility for installation in the field or boiler production line assembly, and maintenance. The valve piston construction allows for port sealing that is independent of the differential pressure across the valve. Flow through the 2-way valve can be in either direction, so the ports are not designated. 3-way valves are suitable for both diverting and mixing water from AB to A or B, and from A or B to AB.



Special Features

- Rugged design
- High pressure differential up to 4 bar
- Control by a line voltage SPST or SPDT controller
- Minimal actuator power consumption
- Double insulated actuator
- Quick and easy replacement of moving parts
- Actuator head installation does not require draining of the system
- High flow rate capacity



The necessity to follow the VDI2035 standard for all VC valves

has been highlighted on page 4:

For trouble free operation follow the recommendations in VDI 2035 standard "Prevention of damage in water heating installations - Scale formation and waterside corrosion" including initial system flushing, chemical water treatment and the use of Multifunction Magnetic Dirt Separator Filter

4. Product website

In progress – will be available within July

5. BIM models + BIM store database

In progress – will be available within July

6. Attachment

The VC on/off data sheet