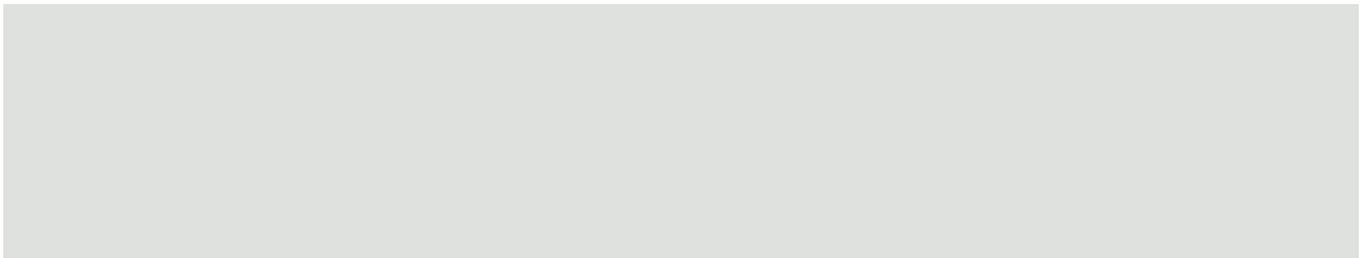


WE'VE JUST ROTATED THE HVAC INDUSTRY 270°

INTRODUCING
THE 270° SIX-WAY
VALVE AND ACTUATOR

We make comfort a priority, **wherever you are**





Six-way control valve and 270° actuator for fan-coil and chilled beam applications



U.S. Patent No. 9,677,717

*VA9905 270° actuator and
VG1600 six-way control valve*

A new direction in efficiency and comfort.

Efficiency and comfort are a matter of degrees. 270 to be exact. The new patented Johnson Controls 270° six-way valve and actuator will change the way you view chilled beam and fan-coil installations. With three times the operating range of other actuators, you can take advantage of these benefits:

- Superior flow control in terminal equipment for improved energy efficiency
- Unmatched flow rate provides a wider range of applications
- Greater application flexibility thanks to interchangeable flow disks
- Actuator with two separate analog inputs for heating and cooling means more precise control
- Simplified installation
- Lower operational costs now that there are fewer valves and actuators to maintain

One valve. One actuator. More control.

The 270° six-way valve and actuator minimizes the number of valves and actuators an installation requires. Plus, it delivers continuous flow control over a rotational range of 270° for more precise accuracy. The results? More efficient energy use and improved occupant comfort.

- Replaces up to four valves and four actuators
- Allows you to use the same valve and actuator for heating and cooling



Superior control

The more you can control, the more you can save.

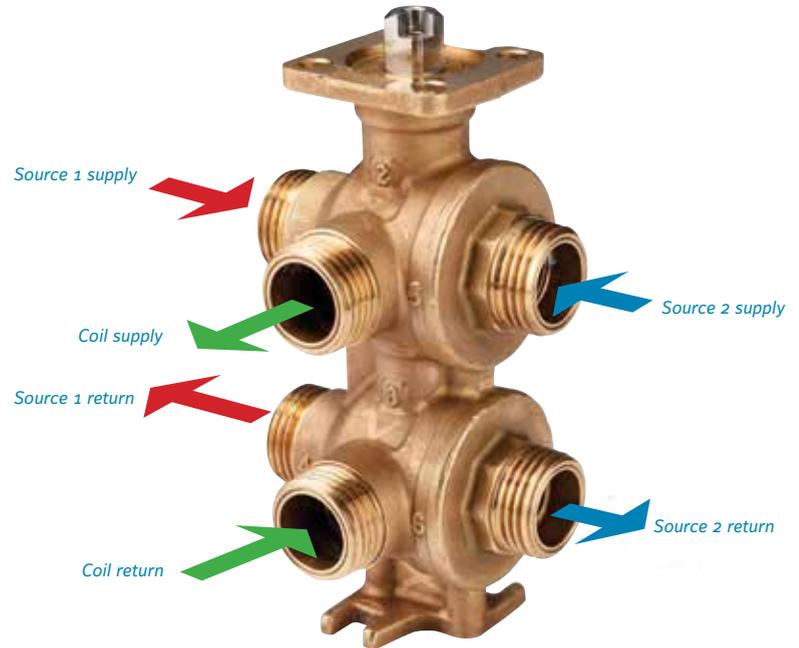
The greater rotation distance of the 270° six-way valve and actuator along with two analog inputs means greater accuracy and more precise control. Plus, the true shut-off feature eliminates leaks and improves reliability.



Unmatched flow rate

Flow-through profits.

The patented design delivers unmatched flow rates because of the larger diameter of the internal ball. This allows you to achieve the desired flow rate using smaller pipe sizes. So you can reduce installation costs without reducing flow. At the same time, this increases energy efficiency in HVAC equipment. The higher flow rate demand for supplying more and larger terminal units is not a problem. As result, you can cost-effectively expand the scope of projects.



Interchangeable flow disks

One part covers heating or cooling.

Manage both heating and cooling flow rates with the same valve, as well as high-load demands, with the innovative, interchangeable flow disks.

Stock less and deliver more.

The versatility of the 270° six-way control valve reduces the number of valves and actuators you need for controlling a system. One of our valves replaces up to four other valves. Fewer SKUs simplify the valve selection process.



Flow disk and ring nut are inserted into the valve with installation tool

Fool-proof mounting system

Reduce installation time.

The intuitive assembly system simplifies installation and eliminates mistakes to ensure a successful installation. And it connects to any type of field controller right out of the box. The easy-to-operate pointer and handle system lets you manually shut off the valve for commissioning or maintenance.



Easy alignment for proper coupling

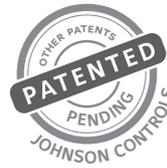
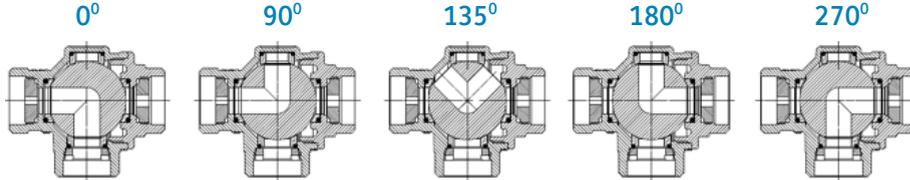
Going further to meet your **control needs**

The Johnson Controls 270° six-way control valve and actuator offers:

- Greater application flexibility
- A design engineered for accuracy and reliability
- Simplified installation
- The backing of Johnson Controls, providing the world's largest portfolio of HVAC equipment and controls. No matter where you are in the world, you can rely on us to help meet your efficiency, comfort and application requirements.

270 degrees of rotation. Nothing else comes close.

- 90° of control for heating
- 90° of deadband
- 90° of control for cooling



U.S. Patent No. 9,677,717



VA9905 270° actuator and VG1600 six-way control valve

Ordering Information.

VA9905-KGA-2	270° actuator
VG1641AF	Six-way valve with NPT internal threads
VG1671AF	Six-way valve with BSPP external threads & sweat union fittings
VG1641AF+905KGA	Six-way valve and 270° actuator
VG1671AF+905KGA	Six-way valve and 270° actuator