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## VG 7000 Series Bronze Control Valves

Johnson Controls manufactures the VG7000 Series of Bronze Globe Valves to accurately regulate the flow of water or steam in heating, ventilating, and air conditioning systems. These valves are available in normally open, normally closed, and three-way mixing configurations. From ½" through 2" the bronze valves are equipped with standard brass trim or optional stainless steel trim and offer 12 styles of electric and pneumatic actuators.

### Sizing Valves

Like all valves, VG7000 Valves must be sized correctly to perform the job for which they were intended. Undersized valves cannot deliver sufficient quantities for maximum load conditions, and oversized valves attempt to perform correctly but must do so at the very end of their strokes where hunting or cycling is hard to avoid. The first step in choosing the correct valve size is to determine the flow coefficient (Cv) that is required for the system. The Cv factor is defined as the number of U.S. gallons per minute of 60°F water that will flow through a fully open valve with a 1 psi drop across it. This factor is determined by the construction of the valve and will not change.



### Water Valves

Two-position applications: The valve is normally sized to the pipe size with the largest Cv available.

Modulating applications: The valve should be sized to produce the required GPM flow at a pressure drop of 1 to 2 times the pressure drop across the coil at design flow.

### Steam Valves

Two-position applications: The valve is normally sized to be the same as the pipe, using the largest Cv available for a given pipe size.

Modulating applications: Select the valve to meet the BtuH requirements of the coil.

When you know the Cv factor and the requirements of the valve body construction and material, you can select a Johnson Controls VG7000 Series Bronze Control Valve. Multiple actuators may be available for each valve size. Keep in mind that the actuator must be able to supply sufficient force to close against the pump head pressure.

For help with sizing a valve, call the Stromquist sales department. For a VG7000 Series Selection Guide or an Ordering Guide, please e-mail [stacie@stromquist.com](mailto:stacie@stromquist.com).

**Let Us Hear  
from You!**

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## Smoke and Fire

In order to prevent the spread of fire and smoke through HVAC ducting systems of buildings, motorized fire and smoke dampers are used to seal off individual zones should a fire occur. In contrast to conventional tripping mechanisms, dampers, which are actuated electrically, can be controlled from a central point and integrated into safety control systems. This means that they can offer extra protection against the dangerous amounts of low temperature smoke that are often produced before a fire actually breaks out.

The fire and smoke damper actuator market has experienced serious problems in the past, with noise, early failure and operational problems. As a result, the UL555 and UL555S standards have been modified to require more stringent construction and testing.

### **Safety First**

*Replace your fire and smoke actuators with the best from Belimo.*

Belimo has designed the FSNF120 to meet the new requirements and to ensure top quality actuation for smoke and combination fire and smoke dampers. The new FSNF120 cycles within 15

seconds for both spring return and drive at 350°F temperature, not simply at ambient.

Belimo's fire and smoke damper actuators are engineered for quality first with these important design features:

- Size and weight are low for the high speed and torque generation.
- Holding power requirement is 10 VA - less than 0.1 amp.
- Internal spring is protected from damage.
- Controlled and optimized power consumption over the whole input voltage range at full open position.
- Minimized power consumption in the full open position.
- Steel housing, tamper-proof construction and high temperature integrity.
- All gearing and clamps are made of steel.
- Noise-free holding operation.
- Spring return for fail-safe operation.
- Micro-controller offers constant running time, restart trial if jam occurs, reduced current at end position, and cool running motor.

## Go LOGO!

LOGO! Modular, the universal logic module from Siemens, makes even your difficult control applications seem easy. This unit enables you to save space, time and money by offering an alternative means of wiring numerous control components. The modularity allows the exact needs of your application to be addressed with virtually no limit to its range of applications. LOGO! is a perfect solution for switching and control and can be used in a wide variety of applications:

- Home and Building Management - lighting control, door/gate control, sprinkler system control
- HVAC - energy management, ventilation systems, heating, cooling
- Machine Controls - motors, pumps, valves, air compressors
- Transport Facilities - conveyor systems, elevators, and more
- Operational Monitoring - access control, alarm systems, etc.



Everything is integrated into one extremely compact unit:

- Operator keypad and display panel
- Programming software -- connect function blocks to create desired circuits
- Nonvolatile storage of control program and parameters on internal EEPROM
- Power supply and connectors built in
- 16 timer functions
- 24 counter functions
- 8 time switches
- 3 operating hours counters
- 42 current impulse relays
- 42 latching relays

Modular LOGO! saves room in the control cabinet, requires fewer accessories and less warehouse space, and can be expanded whenever necessary. So it saves not only costs, but also time - as much as 80%. It's easy to install, needs hardly any wiring, is very easy to program, and that's all there is to it.

## New Computer System in Place

After months of preparation and training, Stromquist went live on a new computer system on August 4, 2003. Commerce Center from Profit 21 allows us to better serve our customers with a variety of system options. We will be able to look up company names and part numbers quicker and easier, which will save you time when getting quotes or placing orders. Also, you will now have the option of getting confirmations, tracking information, and invoices e-mailed or faxed to you immediately. We hope our customers have nothing but positive experiences with the new system, but we do want to apologize for any inconveniences you may experience. Although all employees were trained extensively before Commerce Center was put into place, there will still be a learning curve until we all get comfortable with it.

Another change you will notice is our new, improved website. Our online ordering is as easy as it was before but with a new look and some improved features. You will now be able to establish multiple shopping lists and take advantage of our new quick order pad. You also will have the ability to view open orders, past purchases, and invoices online. If you would like to start ordering online, go to [www.stromquist.com](http://www.stromquist.com) and click "Logon" and then "Register Now." Please note that even if you had a login on our old online ordering system, you will need to register on the new system as the login information is now different. We would like to thank everyone for their patience in getting used to our new website and for bearing with us while we work out a few glitches. Once you start using the system regularly, you will discover the many great features it has to offer.

## Ch-ch-ch Changes

### Honeywell Ball Valves

Honeywell is transitioning the existing VB30, VB34 and VB35 ball valves to the new VB2 and VB3 Series Characterized Ball Valves. The VB30, VB34 and VB35 ball valves will officially be discontinued on September 30, 2003.

### Honeywell Pneumatic Valves

Honeywell is pleased to announce important simplifications to the VP525 and VP531 lines of pneumatic valves.

VP525A and VP531A models have been obsoleted. All "C" models will have both 3-10 and 2-5 psi springs. This was done

## Honeywell Changes Cont'd.

to improve the ease of ordering the correct valve with the appropriate spring range. Each "A" model has been crossed to a "C."

A series advance was put into place for all C models. Series 1 valves will have only the one spring with which it was originally designed. All Series 2 valves will come packed complete with both the 2-5 and 3-10 psi springs. VP525C valves will continue to be assembled with an orange (3-10 psi) spring, and a green (2-5 psi) spring is packed in the box. The VP531C valves will continue to be assembled with a green (2-5 psi) spring, and an orange (3-10 psi) spring is packed in the box. Make sure when substituting C valves for A valves that a Series 2 C valve is used.

## Employee Spotlight

Stephanie Parker has been working at Stromquist & Company as an inside sales associate since 1990. She is very knowledgeable of all our product lines, but she specializes in Honeywell DDC controls.



Stephanie enjoys talking with the customers she has come to know over the years, and she has made many new friends while working here. She likes the constant pace of her job and because of the varied aspects of the work and the constant challenges, she has always enjoyed working at Stromquist. Stephanie feels that she has been very rewarded with the support she receives from management and co-workers. And that support goes both ways as she is always willing to go the extra mile to help customers and co-workers alike.

After she leaves the office, Stephanie likes to spend her free time with her family, reading and working in her yard.

**FAX ME**

**E-MAIL ME**

If you would like to receive confirmations, invoices, etc. via fax or e-mail, send your request to [stacie@stromquist.com](mailto:stacie@stromquist.com). Be sure to include your company name, location, e-mail address and/or fax number.

## NX Series - The Right Drive

From simple HVAC applications to closed-loop process control applications, the Honeywell NX Series is the right drive for all scenarios. You can depend on an NX Series drive to control anything from simple fans, pumps, and compressors to elevators, cranes or winders. NXS models offer the greatest application versatility for multiple control applications, while NXL models meet simple application needs in the low-horsepower range.

The NX Series extends the CX Series' reputation for reliability, with the same high level of resistance to electromagnetic interference. The NX Series' two different control units -- the NXS and NXL -- both feature standard, open loop, sensorless vector control software sufficient for the majority of applications. Both control units incorporate the same application packages, control panels, I/O cards and can connect to the same PC tools package.



NX Series features include:

- Integrated AC choke for maximum protection and minimum harmonics
- Integral RFI filter for first environment, restricted distribution and second environment
- Flexibility in communication with multiple fieldbus options
- Highly flexible I/O configuration
- Multi-application software package pre-installed
- Versatile PC tools for loading, adjusting and comparing parameters
- Slim, space-saving "bookshelf" design for side by side installation
- Continuous self-supervising runtime and alarm system for reliability and safety
- Control logic can be powered from an external auxiliary supply, maintaining power to the control panel, internal drive functions and fieldbuses
- Parameter transfers between drives and applications

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