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Sizing VG7000 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.

WE WANT TO HEAR FROM YOU!

**For product information or orders,
call our sales department at
404-794-3440 or 800-241-9471**

**OR e-mail us at
sales@stromquist.com**

**Check stock or
order on-line at
www.stromquist.com**

New System

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. For instance, 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 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.

Be Aware of the 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 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.

Compatible Sensors

ACI Sensors are compatible with multiple DDC systems, are very affordable and easy to use. Stromquist has many of these in stock and ready to ship to you or your customer. This is just a partial listing. For more information, call our sales department.

Automated Logic	10K-CP Thermistor
ASI	3K Thermistor
Barber Colman	ACI/1K RTDs; 10K-AN Thermistor; TT1000s
Carrier	10K-AN, 10K-CP Thermistors
Delta	10K-AN Thermistor
Honeywell	ACI/20K Thermistor; ACI/1K RTDs
Johnson Controls	ACI/1K Nickel; ACI/1K-2 Wire RTDs; TT1000s
Landis & Gyr (Siemens)	ACI/100K RTDs
Kreuter (KMC)	10K-CP Thermistor
Novar	ACI/VAVs; UVCs; TT100s; TT1000s
Robertshaw	ACI/1K RTDs; ACI/2K Silicon
Siebe (Invensys)	ACI/1K-Balco; 10K-AN Thermistor
Solidyne	10K-CP Thermistor
Trane	10K-CP Thermistor; ACI/1K-2 wire RTDs; TT100s
York Int'l	10K-AN Thermistor

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. 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 enhances 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

Unique Job Interviews

These are unusual but true experiences of some interviewers of major corporations:

Candidate announced she hadn't had lunch and proceeded to eat a hamburger and french fries in the interviewer's office.

Balding candidate excused himself and returned a few minutes later wearing a headpiece.

Applicant interrupted the interview to phone her therapist for advice on how to answer specific interview questions.

Interviewee wore a Walkman, explaining that she could listen to the interviewer and the music at the same time.

Back by Popular Demand

Find and circle all of the words on the right in the puzzle below. Words are hidden vertically, horizontally, diagonally, forward, and backward. Have fun!

J O H W B O P A N E L T P A R T B N C A C
 D P N B J A V B F D G B Y U Q K L A J O I
 A L S R O T S V M E R R O S N E S M M E T
 N A I O H R E B A N G O A P X H D P P F A
 U M L B N E G H Q L J E H T R A U H O F M
 K O U K S L G C R O V G L K A T M J N I U
 L D A C O E F F I C I E N T E P M R L M E
 E U H A N H J A M B Y K S R K A O W I O N
 R L K F N L P U T R H M A T G M M V N A P
 B A D T H E R M I S T O R F G I L Q E S R
 N T I R I L B A B K D O B N M O L P M B W
 L I O D E S T R O M Q U I S T N E J F V L
 A N F M A N O M O O N R C V I U W U E L F
 P G S T R B R A C I P A N M C C Y Y N T I
 I T V I D A P O A S M L C H D B E V I R D
 U E C B R E L B A I R A V A L B N Q R Y A
 G A Y P K G D A V A M B Y P G G O D K I M
 D I O D G H O N G M K X C A K I H O P V H

- Valves
- Coefficient
- Modulating
- Sensor
- Johnson
- Thermistor
- Pneumatic
- Computer
- Online
- Honeywell
- Variable
- Stromquist
- Drive
- ACI
- Spring
- Alarm
- Panel

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