



COVER EVERY APPLICATION WITH ONE CONTROL BALL VALVE BRAND.

Control Ball Valve
Quick Selection Guide

Honeywell

MORE ACCURATE FLOW RATE WITH LESS WEAR AND TEAR

The Honeywell characterized control ball valves feature a parabolic flow insert that's integral to the ball. Its unique construction enables a smoother flow curve and greater degree of rotation responsiveness.

SIMPLIFIED SELECTION

Our new valve numbering system makes model selection a snap. The complete line of Honeywell actuators and valves are already proven in more than three million buildings worldwide. So specify Honeywell ball valves, and put a proven performer on every job.

Honeywell control ball valves use the same actuator mounting bracket for all 1/2" – 3" valves, whether spring or non-spring return actuators. And Honeywell's Cv ratings are similar to globe valve Cv ratings, making it easier to design your system using a ball valve.

Accurate flow control

Parabolic flow inserts integral to the ball provide equal percentage control, which ensures linear heat transfer at the coil.

Simplified actuator selection

Multi-actuator mounting bracket allows the same bracket to be utilized on all valves.

Save with lower-cost actuators

Lower breakaway torque allows the use of more affordable actuators when valves need to be refitted.

Packless, field replaceable stem

Allows valve to be serviced and replaced on-pipe.

Built for safety and endurance

- Blowout-proof stem withstands high pressure for safety.
- NORYL® material used for parabolic inserts extends valve life and performance.
- Optional NEMA 3R actuator enclosure for weatherproof applications.

Honeywell's control ball valve line has a large range of Cv's to meet all of your specified requirements.

Flanged Control Ball Valve Offering





MVN ACTUATORS



Click-on assembly cuts installation time - no tools needed.

Position indicator shows the open or closed position of the stem or ball valve for easy commissioning.

Compact design saves space allowing installation in confined areas.

GET THE JOB DONE ON TIME AND UNDER BUDGET.

The new MVN rotary valve actuator for use with control ball valves and pressure regulated control valves reduces labor costs associated with mechanical and electrical installation, commissioning and service. This innovative design makes assembly easy, saving you time and money.



Exclusive click-on assembly



Position indicator



Removable terminal block



Conduit connection

Tool-Free Installation

The unique design dramatically cuts installation time. Honeywell's exclusive click-on assembly simply snaps onto the valve – no tools needed. And the position indicator, another Honeywell exclusive, shows the position of the valve from any angle for easy commissioning. From testing the installation to monitoring the valve position, you'll spend less time on the job.

Installation Flexibility

The MVN actuator not only saves time, it saves space. Thanks to the compact design, you can use the MVN in confined areas or simply take advantage of more working room in normal spaces. Plus, multiple wiring options allow flexible electrical installation. Options such as a removable terminal block, an attached cable and a conduit connection, give installers the flexibility to meet the requirements for a specific project.

Just Your Size

Because of the lower torque requirement of Honeywell valves, the MVN actuator can be used on valves up to 1-1/4" diameter. Just click the MVN onto any of a wide range of compatible commercial valves and you're ready to begin commissioning.

Backed by Honeywell

You take pride in doing the job right and your customers depend on you. You need to be able to trust the products you use and you can count on Honeywell. From a five-year warranty to training and technical expertise you can depend on Honeywell support just as you depend on Honeywell products.

The Right Choice, MVN

Fast, flexible installation combined with easy commissioning and service help you finish your projects on time and under budget.

MS AND MN ACTUATORS

PRECISE, RELIABLE PERFORMANCE. LASTING VALUE.

Everything you look for in direct-coupled actuators hinges on quality. And quality engineering is what makes Honeywell's complete line of actuators the top performers in the industry.



Improve Installation Time

Self-centering shaft adapter provides mounting flexibility and greater clamping force. Common wiring among families for every signal saves installation time.



Decrease Material Cost

Detachable access cover allows direct wiring without a junction box.

Reduce Inventory and Selection Time

With the signal mode adaptor that adapts models to two position, floating and modulating application.



Increase Control and Accuracy

More than 200 reposition steps for modulating models provide precise control.

Increased Flexibility

Select models are available with or without three foot actuator whips cable.



NEMA 3R ENCLOSURE

- (IP54) rated enclosure for outdoor applications

CONTROL BALL VALVE SELECTION CRITERIA

| 2-WAY | | | | | 3-WAY | | | | |
|------------------------|---------------------------------|------|------------|-------------|------------------------|--------------------------------|------|------------|-------------|
| ATTRIBUTE | SPECIFICATION | | NPT THREAD | ANSI FLANGE | ATTRIBUTE | SPECIFICATION | | NPT THREAD | ANSI FLANGE |
| | (Inch) | (DN) | VBN2 | VBF2 | | (Inch) | (DN) | VBN3 | VBF3 |
| Valve Size | 0.5 | 15 | • | | Valve Size | 0.5 | 15 | • | |
| | 0.75 | 20 | • | | | 0.75 | 20 | • | |
| | 1 | 25 | • | | | 1 | 25 | • | |
| | 1.25 | 32 | • | | | 1.25 | 32 | • | |
| | 1.5 | 40 | • | | | 1.5 | 40 | • | |
| | 2 | 50 | • | | | 2 | 50 | • | |
| | 2.5 | 65 | • | | | 2.5 | 65 | • | |
| | 3 | 80 | • | | | 3 | 80 | n/a | |
| | 4 | 100 | | • | | 4 | 100 | | • |
| | 5 | 125 | | • | | 5 | 125 | | • |
| | 6 | 150 | | • | | 6 | 150 | | • |
| Static Pressure | Class 125 (240 psi) | | | • | Static Pressure | Class 125 (240 psi) | | | • |
| | 360 psi | | | • | | 360 psi | | | • |
| Close-Off Pressure * | 100 psi (min) | | | • | Close-Off Pressure * | 40 psi (min) | | | • |
| | 70 psi (min) | | | • | | 70 psi (min) | | | • |
| Media | Chilled Water (50% glycol max) | | | • | Media | Chilled Water (50% glycol max) | | | • |
| | Hot Water (50% glycol max) | | | • | | Hot Water (50% glycol max) | | | • |
| Medium | Min -22 °F / Max 250 °F | | | • | Medium Temperature | Min -22 °F / Max 250 °F | | | • |
| Flow Characteristic | Equal Percentage | | | • | Flow Characteristic | Equal Percentage | | | • |
| | Linear (full port valves) | | | • | | Linear (full port valves) | | | • |
| Maximum | ANSI Class IV (0.01% of Cv max) | | | • | Maximum Seat Leakage | ANSI Class IV (0.01% Cv max.) | | | • A-port |
| Rangeability | 50:1 min *** | | | • | | ANSI Class III (0.10% Cv max.) | | | B-port |
| Trim | Nickel plated brass | | | • | Rangeability | Does not apply to 3-way valves | | | |
| | Stainless steel | | | • | Trim | Nickel plated brass | | | • |
| In-line Serviceability | Stem replacement kit | | | • | | Stainless steel | | | • |
| Actuator Options | Modulating 2-10 Vdc | | | • | In-line Serviceability | Stem replacement kit | | | • |
| | Sylk | | | • **** | | Modulating 2-10 Vdc | | | • |
| | 24 Vac Floating | | | • | | Sylk | | | • **** |
| | 24 Vac 2-position | | | • | | 24 Vac Floating | | | • |
| Accessories | Fail-Safe (FO/FC) | | | • | | 24 Vac 2-position | | | • |
| | Actuator Cable Assembly ** | | | • | | Fail-Safe (FO/FC) | | | • |
| | Actuator Cable Assembly ** | | | • | | Actuator Cable Assembly ** | | | • |

* Maximum operating differential pressure. Maximum differential pressure for quiet service may be lower.

** On MVN actuators only. Available separately or factory installed. Standard on Diamond actuators.

*** Cv 0.38 and Cv 0.68 in 1/2" size, and Cv 0.31 and Cv 0.63 in 3/4" has less than 50:1 rangeability.

****Available on 1/2" to 1-1/4" valves

* Maximum operating differential pressure. Maximum differential pressure for quiet service may be lower.

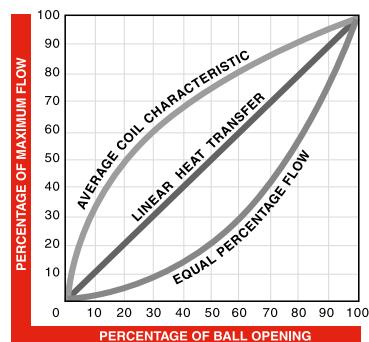
** On MVN actuators only. Available separately or factory installed. Standard on Diamond actuators.

*** Cv 0.38 and Cv 0.68 in 1/2" size, and Cv 0.31 and Cv 0.63 in 3/4" has less than 50:1 rangeability.

****Available on 1/2" to 1-1/4" valves

THE PARABOLIC FLOW INSERT

The Parabolic Flow insert produces a smooth and responsive flow curve. The valve achieves an equal percentage flow characteristic resulting in linear heat transfer for optimal control. Unlike a disc that sits outside of the ball, the characterized insert is integral to the ball, resulting in longer service life and higher differential pressure capabilities.



CONTROL BALL VALVE APPLICATIONS

| | | Pipe Size, inches (DN) | | | | | | | | | | |
|--------------------|-------------------------|------------------------------|-----------|---------|-------------|-------------|---------|-------------|---------|--------------------|----------|----------|
| | | 1/2" DN15 | 3/4" DN20 | 1" DN25 | 1-1/4" DN32 | 1-1/2" DN40 | 2" DN50 | 2-1/2" DN65 | 3" DN80 | 4" DN100 | 5" DN125 | 6" DN150 |
| Unitary Equipment | Fan Coil Units | Control ball valves | | | | | | | | | | |
| | Unit Heaters | Control ball valves | | | | | | | | | | |
| | Convector | Control ball valves | | | | | | | | | | |
| | Radiant Panels | Control ball valves | | | | | | | | | | |
| | Unit Ventilator | Control ball valves | | | | | | | | | | |
| | Reheat Coils | Control ball valves | | | | | | | | | | |
| | Water Source Heat Pump | Control ball valves | | | | | | | | | | |
| | Blower Coil | Control ball valves | | | | | | | | | | |
| Air Handling Units | Heating & Cooling Coils | Threaded control ball valves | | | | | | | | | | |
| | | | | | | | | | | Flanged ball valve | | |
| Central Plant | Chilled Ceiling | Threaded control ball valves | | | | | | | | | | |
| | Outdoor reset | Threaded control ball valves | | | | | | | | | | |
| | | | | | | | | | | Flanged ball valve | | |
| | Boiler Bypass | Threaded control ball valves | | | | | | | | | | |
| | | | | | | | | | | Flanged ball valve | | |
| | Heat reclaim | Threaded control ball valves | | | | | | | | | | |
| | Greenhouse | Threaded control ball valves | | | | | | | | Flanged ball valve | | |
| | Thermal Storage | Threaded control ball valves | | | | | | | | | | |
| | Chillers | Threaded control ball valves | | | | | | | | Flanged ball valve | | |

PRODUCT SELECTION - VALVES

2-Way Control Ball Valves With Non Spring Return Actuators 1/2"-3"



Example of complete orderable part number: **VBN2A000.38SA+MVN643A0000+C1**

Control Ball Valve, Female NPT Thread, 2-way, 1/2", CV .38, Stainless Steel trim, Standard Profile with MVN643A0000 Actuator, Fail in place and 1 meter cable.

Standard profile provides clearance between valve and actuator for insulation.
Low profile enables installation of valve and actuator in tight spaces.

**5-YEAR
LIMITED
WARRANTY**

If the complete orderable part number is too long for your ordering system, please refer to the Short Order Codes on pg 12 to 33.

| Valve Specification | | Valve Profile | Standard Profile | | Low Profile | | Black Bracket | |
|---------------------|-----------------|---------------|------------------|-------------------------|---------------|-----------------|---------------|-----------------|
| Valve Size (inches) | Close-off (psi) | Valve Trim | Plated Brass | Stainless Steel | Plated Brass | Stainless Steel | Plated Brass | Stainless Steel |
| 2-Way | | Cv | | Valve Body Model Number | | | | |
| | | | VBN2A000.38PA | VBN2A000.38SA | VBN2A000.38PL | VBN2A000.38SL | VBN2A000.38PX | VBN2A000.38SX |
| | | | VBN2A000.68PA | VBN2A000.68SA | VBN2A000.68PL | VBN2A000.68SL | VBN2A000.68PX | VBN2A000.68SX |
| | | | VBN2A001.30PA | VBN2A001.30SA | VBN2A001.30PL | VBN2A001.30SL | VBN2A001.30PX | VBN2A001.30SX |
| | | | VBN2A002.00PA | VBN2A002.00SA | VBN2A002.00PL | VBN2A002.00SL | VBN2A002.00PX | VBN2A002.00SX |
| | | | VBN2A002.60PA | VBN2A002.60SA | VBN2A002.60PL | VBN2A002.60SL | VBN2A002.60PX | VBN2A002.60SX |
| | | | VBN2A004.70PA | VBN2A004.70SA | VBN2A004.70PL | VBN2A004.70SL | VBN2A004.70PX | VBN2A004.70SX |
| | | | VBN2A008.00PA | VBN2A008.00SA | VBN2A008.00PL | VBN2A008.00SL | VBN2A008.00PX | VBN2A008.00SX |
| | | | VBN2A011.70PA | VBN2A011.70SA | VBN2A011.70PL | VBN2A011.70SL | VBN2A011.70PX | VBN2A011.70SX |
| | | | VBN2B000.31PA | VBN2B000.31SA | VBN2B000.31PL | VBN2B000.31SL | VBN2B000.31PX | VBN2B000.31SX |
| | | | VBN2B000.63PA | VBN2B000.63SA | VBN2B000.63PL | VBN2B000.63SL | VBN2B000.63PX | VBN2B000.63SX |
| | | | VBN2B001.20PA | VBN2B001.20SA | VBN2B001.20PL | VBN2B001.20SL | VBN2B001.20PX | VBN2B001.20SX |
| | | | VBN2B002.50PA | VBN2B002.50SA | VBN2B002.50PL | VBN2B002.50SL | VBN2B002.50PX | VBN2B002.50SX |
| | | | VBN2B004.30PA | VBN2B004.30SA | VBN2B004.30PL | VBN2B004.30SL | VBN2B004.30PX | VBN2B004.30SX |
| | | | VBN2B007.40PA | VBN2B007.40SA | VBN2B007.40PL | VBN2B007.40SL | VBN2B007.40PX | VBN2B007.40SX |
| | | | VBN2B010.10PA | VBN2B010.10SA | VBN2B010.10PL | VBN2B010.10SL | VBN2B010.10PX | VBN2B010.10SX |
| | | | VBN2B014.70PA | VBN2B014.70SA | VBN2B014.70PL | VBN2B014.70SL | VBN2B014.70PX | VBN2B014.70SX |
| | | | VBN2B029.00PA | VBN2B029.00SA | VBN2B029.00PL | VBN2B029.00SL | VBN2B029.00PX | VBN2B029.00SX |
| | | | VBN2C004.40PA | VBN2C004.40SA | VBN2C004.40PL | VBN2C004.40SL | VBN2C004.40PX | VBN2C004.40SX |
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| | | | VBN2C015.30PA | VBN2C015.30SA | VBN2C015.30PL | VBN2C015.30SL | VBN2C015.30PX | VBN2C015.30SX |
| | | | VBN2C026.00PA | VBN2C026.00SA | VBN2C026.00PL | VBN2C026.00SL | VBN2C026.00PX | VBN2C026.00SX |
| | | | VBN2C044.00PA | VBN2C044.00SA | VBN2C044.00PL | VBN2C044.00SL | VBN2C044.00PX | VBN2C044.00SX |
| | | | VBN2C054.00PA | VBN2C054.00SA | VBN2C054.00PL | VBN2C054.00SL | VBN2C054.00PX | VBN2C054.00SX |
| | | | VBN2D004.40PA | VBN2D004.40SA | VBN2D004.40PL | VBN2D004.40SL | VBN2D004.40PX | VBN2D004.40SX |
| | | | VBN2D008.30PA | VBN2D008.30SA | VBN2D008.30PL | VBN2D008.30SL | VBN2D008.30PX | VBN2D008.30SX |
| | | | VBN2D014.90PA | VBN2D014.90SA | VBN2D014.90PL | VBN2D014.90SL | VBN2D014.90PX | VBN2D014.90SX |
| | | | VBN2D025.00PA | VBN2D025.00SA | VBN2D025.00PL | VBN2D025.00SL | VBN2D025.00PX | VBN2D025.00SX |
| | | | VBN2D037.00PA | VBN2D037.00SA | VBN2D037.00PL | VBN2D037.00SL | VBN2D037.00PX | VBN2D037.00SX |
| | | | VBN2D041.00PA | VBN2D041.00SA | VBN2D041.00PL | VBN2D041.00SL | VBN2D041.00PX | VBN2D041.00SX |
| | | | VBN2D102.00PA | VBN2D102.00SA | VBN2D102.00PL | VBN2D102.00SL | VBN2D102.00PX | VBN2D102.00SX |
| | | | | | N/A | | | |
| | | | | | | | VBN2E023.00PX | VBN2E023.00SX |
| | | | | | | | VBN2E030.00PX | VBN2E030.00SX |
| | | | | | | | VBN2E041.00PX | VBN2E041.00SX |
| | | | | | | | VBN2E074.00PX | VBN2E074.00SX |
| | | | | | | | VBN2E172.00PX | VBN2E172.00SX |
| | | | | | | | VBN2F042.00PX | VBN2F042.00SX |
| | | | | | | | VBN2F057.00PX | VBN2F057.00SX |
| | | | | | | | VBN2F071.00PX | VBN2F071.00SX |
| | | | | | | | VBN2F100.00PX | VBN2F100.00SX |
| | | | | | | | VBN2F108.00PX | VBN2F108.00SX |
| | | | | | | | VBN2F210.00PX | VBN2F210.00SX |
| | | | | | | | VBN2F266.00PX | VBN2F266.00SX |
| | | | | | | | VBN2G045.00PX | VBN2G045.00SX |
| | | | | | | | VBN2G055.00PX | VBN2G055.00SX |
| | | | | | | | VBN2G072.00PX | VBN2G072.00SX |
| | | | | | | | VBN2G101.00PX | VBN2G101.00SX |
| | | | | | | | VBN2G162.00PX | VBN2G162.00SX |
| | | | | | | | VBN2G202.00PX | VBN2G202.00SX |
| | | | | | | | VBN2H049.00PX | VBN2H049.00SX |
| | | | | | | | VBN2H063.00PX | VBN2H063.00SX |
| | | | | | | | VBN2H082.00PX | VBN2H082.00SX |
| | | | | | | | VBN2H124.00PX | VBN2H124.00SX |
| | | | | | | | VBN2H145.00PX | VBN2H145.00SX |

| Actuator Features | | | | | MVN Standard Profile | MVN Low Profile | DCA or DCA w/ switches |
|-------------------|---------|-------------------|-----------|--------------|-----------------------|------------------------------|------------------------|
| Control Signal | Timing | Voltage | Enclosure | | Actuator Model Number | | |
| Floating | 90 sec. | | | +MVN613A0000 | +MVN613L0000 | +MN6105A1011 or +MN6105A1201 | |
| Fast SPDT | 30 sec. | 24 VAC/DC* | NEMA 2 | +MVN643A0000 | +MVN643L0000 | | |
| Modulating | 90 sec. | | | +MVN713A0000 | +MVN713L0000 | +MN7505A2001 or +MN7505A2209 | |
| Accessories | | 1 meter cable | | | +C1 | | N/A |
| | | NEMA 3R enclosure | | | N/A | | +3R |

*MVN613 24 VAC only

PRODUCT SELECTION - VALVES

2-Way Control Ball Valves With Spring Return Actuators 1/2"-3"



Example of complete orderable part number: **VBN2A000.38SX+MS7103A2024+FSC**

Control Ball Valve, Female NPT Thread, 2-way, 1/2", CV .38, Black Bracket, Stainless Steel trim with MS7103A2024 Actuator, Fail closed.

**5-YEAR
LIMITED
WARRANTY**

If the complete orderable part number is too long for your ordering system, please refer to the Short Order Codes on pg 12 to 33.

| Valve Specification | | Valve Profile | Black Bracket | | | |
|---------------------|-----------------|--------------------------------|---------------|-----------------|---------------|-----------------|
| Valve Size (inches) | Close-off (psi) | Valve Trim | Plated Brass | Stainless Steel | Plated Brass | Stainless Steel |
| | | Valve Body Model Number | | | | |
| 1/2" | 130 | 0.38 | VBN2A000.38PX | VBN2A000.38SX | VBN2A000.38PX | VBN2A000.38SX |
| | | 0.68 | VBN2A000.68PX | VBN2A000.68SX | VBN2A000.68PX | VBN2A000.68SX |
| | | 1.3 | VBN2A001.30PX | VBN2A001.30SX | VBN2A001.30PX | VBN2A001.30SX |
| | | 2 | VBN2A002.00PX | VBN2A002.00SX | VBN2A002.00PX | VBN2A002.00SX |
| | | 2.6 | VBN2A002.60PX | VBN2A002.60SX | VBN2A002.60PX | VBN2A002.60SX |
| | | 4.7 | VBN2A004.70PX | VBN2A004.70SX | VBN2A004.70PX | VBN2A004.70SX |
| | | 8 | VBN2A008.00PX | VBN2A008.00SX | VBN2A008.00PX | VBN2A008.00SX |
| | | 11.7 | VBN2A011.70PX | VBN2A011.70SX | VBN2A011.70PX | VBN2A011.70SX |
| 3/4" | 130 | 0.31 | VBN2B000.31PX | VBN2B000.31SX | VBN2B000.31PX | VBN2B000.31SX |
| | | 0.63 | VBN2B000.63PX | VBN2B000.63SX | VBN2B000.63PX | VBN2B000.63SX |
| | | 1.2 | VBN2B001.20PX | VBN2B001.20SX | VBN2B001.20PX | VBN2B001.20SX |
| | | 2.5 | VBN2B002.50PX | VBN2B002.50SX | VBN2B002.50PX | VBN2B002.50SX |
| 3/4" | 130 | 4.3 | VBN2B004.30PX | VBN2B004.30SX | VBN2B004.30PX | VBN2B004.30SX |
| | | 7.4 | VBN2B007.40PX | VBN2B007.40SX | VBN2B007.40PX | VBN2B007.40SX |
| | | 10.1 | VBN2B010.10PX | VBN2B010.10SX | VBN2B010.10PX | VBN2B010.10SX |
| | | 14.7 | VBN2B014.70PX | VBN2B014.70SX | VBN2B014.70PX | VBN2B014.70SX |
| | | 29 | VBN2B029.00PX | VBN2B029.00SX | VBN2B029.00PX | VBN2B029.00SX |
| 1" | 100 | 4.4 | VBN2C004.40PX | VBN2C004.40SX | VBN2C004.40PX | VBN2C004.40SX |
| | | 9 | VBN2C009.00PX | VBN2C009.00SX | VBN2C009.00PX | VBN2C009.00SX |
| | | 15.3 | VBN2C015.30PX | VBN2C015.30SX | VBN2C015.30PX | VBN2C015.30SX |
| | | 26 | VBN2C026.00PX | VBN2C026.00SX | VBN2C026.00PX | VBN2C026.00SX |
| | | 44 | VBN2C044.00PX | VBN2C044.00SX | VBN2C044.00PX | VBN2C044.00SX |
| | | 54 | VBN2C054.00PX | VBN2C054.00SX | VBN2C054.00PX | VBN2C054.00SX |
| 1-1/4" | 100 | 4.4 | VBN2D004.40PX | VBN2D004.40SX | VBN2D004.40PX | VBN2D004.40SX |
| | | 8.3 | VBN2D008.30PX | VBN2D008.30SX | VBN2D008.30PX | VBN2D008.30SX |
| | | 14.9 | VBN2D014.90PX | VBN2D014.90SX | VBN2D014.90PX | VBN2D014.90SX |
| | | 25 | VBN2D025.00PX | VBN2D025.00SX | VBN2D025.00PX | VBN2D025.00SX |
| | | 37 | VBN2D037.00PX | VBN2D037.00SX | VBN2D037.00PX | VBN2D037.00SX |
| | | 41 | VBN2D041.00PX | VBN2D041.00SX | VBN2D041.00PX | VBN2D041.00SX |
| | | 102 | VBN2D102.00PX | VBN2D102.00SX | VBN2D102.00PX | VBN2D102.00SX |
| 1-1/2" | 100 | 23 | | | VBN2E023.00PX | VBN2E023.00SX |
| | | 30 | | | VBN2E030.00PX | VBN2E030.00SX |
| | | 41 | | | VBN2E041.00PX | VBN2E041.00SX |
| | | 74 | | | VBN2E074.00PX | VBN2E074.00SX |
| | | 172 | | | VBN2E172.00PX | VBN2E172.00SX |
| 2" | 100 | 42 | | | VBN2F042.00PX | VBN2F042.00SX |
| | | 57 | | | VBN2F057.00PX | VBN2F057.00SX |
| | | 71 | | | VBN2F071.00PX | VBN2F071.00SX |
| | | 100 | | | VBN2F100.00PX | VBN2F100.00SX |
| | | 108 | | | VBN2F108.00PX | VBN2F108.00SX |
| | | 210 | | | VBN2F210.00PX | VBN2F210.00SX |
| | | 266 | | N/A | VBN2F266.00PX | VBN2F266.00SX |
| 2-1/2" | 100 | 45 | | | VBN2G045.00PX | VBN2G045.00SX |
| | | 55 | | | VBN2G055.00PX | VBN2G055.00SX |
| | | 72 | | | VBN2G072.00PX | VBN2G072.00SX |
| | | 101 | | | VBN2G101.00PX | VBN2G101.00SX |
| | | 162 | | | VBN2G162.00PX | VBN2G162.00SX |
| | | 202 | | | VBN2G202.00PX | VBN2G202.00SX |
| 3" | 100 | 49 | | | VBN2H049.00PX | VBN2H049.00SX |
| | | 63 | | | VBN2H063.00PX | VBN2H063.00SX |
| | | 82 | | | VBN2H082.00PX | VBN2H082.00SX |
| | | 124 | | | VBN2H124.00PX | VBN2H124.00SX |
| | | 145 | | | VBN2H145.00PX | VBN2H145.00SX |

Actuator Features

| Control Signal | Timing | Voltage | Enclosure | Actuator Model Number | DCA or DCA w/ switches |
|--------------------|--|-----------|-----------|------------------------------|------------------------------|
| Modulating | 90 sec. | | | +MS7103A2024 or +MS7103A2224 | +MS7505A2030 or +MS7505A2130 |
| Sylk | 30-180 sec. | 24 VAC/DC | NEMA 2 | +MS3103J1023 or +MS3103J1223 | |
| 2-position | 45 sec. | | | | +MS8105A1030 or +MS8105A1130 |
| 2-position | 45 sec. | 120 VAC | | | +MS4105A1030 or +MS4105A1130 |
| Fail Safe Position | FSO - Fail Safe Open, FSC - Fail Safe Closed | | | +FSO or +FSC | +FSO or +FSC |
| Accessories | NEMA 3R enclosure | | | N/A | +3R |

Note: MS7505A2030 and MS7505A2130 are only available with NEMA 3R enclosure on 1/2" - 1-1/4" valves, for NEMA 2 use MS7103A2024 or MS7103A2224. MS7505A2030 and MS7505A2130 are available with or without NEMA 3R enclosure on 1-1/2" - 3" valves.

Honeywell

PRODUCT SELECTION - VALVES

3-Way Control Ball Valves With Non Spring Return Actuators 1/2"-2 1/2"



Example of complete orderable part number: **VBN3A000.33PA+MVN613A0000+C1**
Control Ball Valve, Female NPT Thread, 3-way, 1-1/2", CV .33, Plated Brass trim, with MVN613A0000
Actuator, Fail in place and 1 meter cable.

**5-YEAR
LIMITED
WARRANTY**

Standard profile provides clearance between valve and actuator for insulation.
Low profile enables installation of valve and actuator in tight spaces.

If the complete orderable part number is too long for your ordering system,
please refer to the Short Order Codes on pg 12 to 33.

| Valve Specification | | Valve Profile | Standard Profile | Low Profile | Black Bracket |
|---------------------|-----------------|---------------|-------------------------|-----------------|---------------|
| Valve Size (inches) | Close-off (psi) | Valve Trim | Plated Brass | Stainless Steel | Plated Brass |
| | | | Valve Body Model Number | | |
| 1/2" | 50 | 0.33 | VBN3A000.33PA | VBN3A000.33PL | VBN3A000.33PX |
| | | 0.59 | VBN3A000.59PA | VBN3A000.59PL | VBN3A000.59PX |
| | | 1.0 | VBN3A001.00PA | VBN3A001.00PL | VBN3A001.00PX |
| | | 2.4 | VBN3A002.40PA | VBN3A002.40PL | VBN3A002.40PX |
| | | 4.3 | VBN3A004.30PA | VBN3A004.30PL | VBN3A004.30PX |
| | | 8.0 | VBN3A008.00PA | VBN3A008.00PL | VBN3A008.00PX |
| 3/4" | 50 | 0.4 | VBN3B000.40PA | VBN3B000.40PL | VBN3B000.40PX |
| | | 0.66 | VBN3B000.66PA | VBN3B000.66PL | VBN3B000.66PX |
| | | 1.30 | VBN3B001.30PA | VBN3B001.30PL | VBN3B001.30PX |
| | | 2.40 | VBN3B002.40PA | VBN3B002.40PL | VBN3B002.40PX |
| | | 3.8 | VBN3B003.80PA | VBN3B003.80PL | VBN3B003.80PX |
| | | 7.0 | VBN3B007.00PA | VBN3B007.00PL | VBN3B007.00PX |
| 1" | 50 | 11.0 | VBN3B011.00PA | VBN3B011.00PL | VBN3B011.00PX |
| | | 0.4 | VBN3C000.40PA | VBN3C000.40PL | VBN3C000.40PX |
| | | 0.65 | VBN3C000.65PA | VBN3C000.65PL | VBN3C000.65PX |
| | | 1.3 | VBN3C001.30PA | VBN3C001.30PL | VBN3C001.30PX |
| | | 2.3 | VBN3C002.30PA | VBN3C002.30PL | VBN3C002.30PX |
| | | 3.5 | VBN3C003.50PA | VBN3C003.50PL | VBN3C003.50PX |
| 1-1/4" | 40 | 4.5 | VBN3C004.50PA | VBN3C004.50PL | VBN3C004.50PX |
| | | 8.6 | VBN3C008.60PA | VBN3C008.60PL | VBN3C008.60PX |
| | | 14.9 | VBN3C014.90PA | VBN3C014.90PL | VBN3C014.90PX |
| | | 22 | VBN3C022.00PA | VBN3C022.00PL | VBN3C022.00PX |
| | | 31 | VBN3C031.00PA | VBN3C031.00PL | VBN3C031.00PX |
| | | 4.1 | VBN3D004.10PA | VBN3D004.10PL | VBN3D004.10PX |
| 1-1/2" | 40 | 8.7 | VBN3D008.70PA | VBN3D008.70PL | VBN3D008.70PX |
| | | 12.7 | VBN3D012.70PA | VBN3D012.70PL | VBN3D012.70PX |
| | | 19.4 | VBN3D019.40PA | VBN3D019.40PL | VBN3D019.40PX |
| | | 27 | VBN3D027.00PA | VBN3D027.00PL | VBN3D027.00PX |
| | | 34 | VBN3D034.00PA | VBN3D034.00PL | VBN3D034.00PX |
| | | 4 | | | VBN3E004.00PX |
| 2" | 40 | 8.3 | | | VBN3E008.30PX |
| | | 13.4 | | | VBN3E013.40PX |
| | | 24 | | | VBN3E024.00PX |
| | | 32 | | | VBN3E032.00PX |
| | | 61 | | | VBN3E061.00PX |
| | | 24 | N/A | | VBN3F024.00PX |
| | | 38 | | | VBN3F038.00PX |
| | | 57 | | | VBN3F057.00PX |
| | | 83 | | | VBN3F083.00PX |
| | | 109 | | | VBN3F109.00PX |
| | | 38 | | | VBN3G038.00PX |
| 2-1/2" | 40 | 74 | | | VBN3G074.00PX |
| | | 100 | | | VBN3G100.00PX |

Actuator Features

| Control Signal | Timing | Voltage | Enclosure | MVN Standard Profile | MVN Low Profile | DCA or DCA w/ switches |
|----------------|---------|-------------------|-----------|----------------------|-----------------|------------------------------|
| Floating | 90 sec. | | | +MVN613A0000 | +MVN613L0000 | +MN6105A1011 or +MN6105A1201 |
| Fast SPDT | 30 sec. | 24 VAC/DC* | NEMA 2 | +MVN643A0000 | +MVN643L0000 | |
| Modulating | 90 sec. | | | +MVN713A0000 | +MVN713L0000 | +MN7505A2001 or +MN7505A2209 |
| Accessories | | 1 meter cable | | | +C1 | N/A |
| | | NEMA 3R enclosure | | | N/A | +3R |

*MVN613 24 VAC only

PRODUCT SELECTION - VALVES

3-Way Control Ball Valves With Spring Return Actuators 1/2"-2½"



Example of complete orderable part number: **VBN3E032.00PX+MS8105A1030+FSC**
Control Ball Valve, Female NPT Thread, 3-way, 1-1/2", CV 32, Black Bracket, Plated Brass trim with MS8105A1030 Actuator, Fail closed.

**5-YEAR
LIMITED
WARRANTY**

If the complete orderable part number is too long for your ordering system, please refer to the Short Order Codes on pg 12 to 33.

| Valve Specification | | Valve Profile | Black Bracket | |
|---------------------|-----------------|---------------|-------------------------|---------------|
| Valve Size (inches) | Close-off (psi) | Valve Trim | Plated Brass | Plated Brass |
| | | Cv | Valve Body Model Number | |
| 1/2" | 50 | 0.33 | VBN3A000.33PX | VBN3A000.33PX |
| | | 0.59 | VBN3A000.59PX | VBN3A000.59PX |
| | | 1.0 | VBN3A001.00PX | VBN3A001.00PX |
| | | 2.4 | VBN3A002.40PX | VBN3A002.40PX |
| | | 4.3 | VBN3A004.30PX | VBN3A004.30PX |
| | | 8.0 | VBN3A008.00PX | VBN3A008.00PX |
| 3/4" | 50 | 0.4 | VBN3B000.40PX | VBN3B000.40PX |
| | | 0.66 | VBN3B000.66PX | VBN3B000.66PX |
| | | 1.30 | VBN3B001.30PX | VBN3B001.30PX |
| | | 2.40 | VBN3B002.40PX | VBN3B002.40PX |
| | | 3.8 | VBN3B003.80PX | VBN3B003.80PX |
| | | 7.0 | VBN3B007.00PX | VBN3B007.00PX |
| 1" | 50 | 11.0 | VBN3B011.00PX | VBN3B011.00PX |
| | | 0.4 | VBN3C000.40PX | VBN3C000.40PX |
| | | 0.65 | VBN3C000.65PX | VBN3C000.65PX |
| | | 1.3 | VBN3C001.30PX | VBN3C001.30PX |
| | | 2.3 | VBN3C002.30PX | VBN3C002.30PX |
| | | 3.5 | VBN3C003.50PX | VBN3C003.50PX |
| 1-1/4" | 40 | 4.5 | VBN3C004.50PX | VBN3C004.50PX |
| | | 8.6 | VBN3C008.60PX | VBN3C008.60PX |
| | | 14.9 | VBN3C014.90PX | VBN3C014.90PX |
| | | 22 | VBN3C022.00PX | VBN3C022.00PX |
| | | 31 | VBN3C031.00PX | VBN3C031.00PX |
| | | 4.1 | VBN3D004.10PX | VBN3D004.10PX |
| 1-1/2" | 40 | 8.7 | VBN3D008.70PX | VBN3D008.70PX |
| | | 12.7 | VBN3D012.70PX | VBN3D012.70PX |
| | | 19.4 | VBN3D019.40PX | VBN3D019.40PX |
| | | 27 | VBN3D027.00PX | VBN3D027.00PX |
| | | 34 | VBN3D034.00PX | VBN3D034.00PX |
| | | 4 | VBN3E004.00PX | VBN3E004.00PX |
| 2" | 40 | 8.3 | VBN3E008.30PX | VBN3E008.30PX |
| | | 13.4 | VBN3E013.40PX | VBN3E013.40PX |
| | | 24 | VBN3E024.00PX | VBN3E024.00PX |
| | | 32 | VBN3E032.00PX | VBN3E032.00PX |
| | | 61 | VBN3E061.00PX | VBN3E061.00PX |
| | | 24 | VBN3F024.00PX | VBN3F024.00PX |
| 2-1/2" | 40 | 38 | VBN3F038.00PX | VBN3F038.00PX |
| | | 57 | VBN3F057.00PX | VBN3F057.00PX |
| | | 83 | VBN3F083.00PX | VBN3F083.00PX |
| | | 109 | VBN3F109.00PX | VBN3F109.00PX |
| | | 38 | VBN3G038.00PX | VBN3G038.00PX |
| | | 74 | VBN3G074.00PX | VBN3G074.00PX |
| | | 100 | VBN3G100.00PX | VBN3G100.00PX |

Actuator Features

| Control Signal | Timing | Voltage | Enclosure | DCA or DCA w/ switches | Actuator Model Number | DCA or DCA w/ switches |
|--------------------|--|-----------|-----------|------------------------------|------------------------------|------------------------|
| Modulating | 90 sec. | | | +MS7103A2024 or +MS7103A2224 | +MS7505A2030 or +MS7505A2130 | |
| Sylk | 30-180 sec. | 24 VAC/DC | NEMA 2 | +MS3103J1023 or +MS3103J1223 | | |
| 2-position | 45 sec. | | | | +MS8105A1030 or +MS8105A1130 | |
| 2-position | 45 sec. | 120 VAC | | | +MS4105A1030 or +MS4105A1130 | |
| Fail Safe Position | FSO - Fail Safe Open, FSC - Fail Safe Closed | | | +FSO or +FSC | +FSO or +FSC | |
| Accessories | NEMA 3R enclosure | | | N/A | | +3R |

Note: MS7505A2030 and MS7505A2130 are only available with NEMA 3R enclosure on 1/2" - 1-1/4" valves, for NEMA 2 use MS7103A2024 or MS7103A2224. MS7505A2030 and MS7505A2130 are available with or without NEMA 3R enclosure on 1-1/2" - 3" valves.

PRODUCT SELECTION - VALVES

MVN Actuator With Standard Profile, 2-Way NPT Valves 1/2"-1 1/4"

| 5-YEAR LIMITED WARRANTY | | | Actuator Features | | Non Fail Safe | | | | Valve Only | | | |
|-------------------------------|-----|--|---------------------------------------|---------------------|---------------|---------------------|----------------|---------------------|---|--|--|--|
| | | | Actuator O.S Number/ Short Order Code | | MVN613A0000 | | MVN613A0000+C1 | | N/A | | | |
| | | | Power Supply | Voltage | 24 VAC | | 24 VAC | |  | | | |
| | | | | Frequency | 50/60 Hz | | 50/60 Hz | | | | | |
| | | | | Power | 1.5 VA | | 1.5 VA | | | | | |
| Actuator Torque | | | (lb.-in.) | 27 | | 27 | | | | | | |
| Control | | | Modulating (0)2-10Vdc | | | | | | | | | |
| | | | Floating | • | | • | | | | | | |
| | | | Fast acting SPDT | | | | | | | | | |
| Actuator Stroke (degrees) | | | | | 90° ± 3° | | 90° ± 3° | | | | | |
| Timing | | | (seconds) | | 90 | | 90 | | | | | |
| Fail Safe Action | | | | | Fail in Place | | Fail in Place | | | | | |
| Valve Features | | | Trim | Nickel-Plated Brass | Ss | Nickel-Plated Brass | Ss | Nickel-Plated Brass | Ss | | | |
| | | | | Short Order Codes | | | | | | | | |
| Valve Size (inches) | | | Cv | No Cable | | 1 Meter Cable | | Valve Only | | | | |
| 1/2" | 130 | | 0.38 | VBN2ABPA1000 | VBN2ABSA1000 | VBN2ABPA1001 | VBN2ABSA1001 | VBN2ABPA0000 | VBN2ABSA0000 | | | |
| | | | 0.68 | VBN2ADPA1000 | VBN2ADSA1000 | VBN2ADPA1001 | VBN2ADSA1001 | VBN2ADPA0000 | VBN2ADSA0000 | | | |
| | | | 1.3 | VBN2AEPA1000 | VBN2AES1000 | VBN2AEPA1001 | VBN2AES1001 | VBN2AEPA0000 | VBN2AES1000 | | | |
| | | | 2 | VBN2AFPA1000 | VBN2AFSA1000 | VBN2AFPA1001 | VBN2AFSA1001 | VBN2AFPA0000 | VBN2AFSA0000 | | | |
| | | | 2.6 | VBN2AGPA1000 | VBN2AGSA1000 | VBN2AGPA1001 | VBN2AGSA1001 | VBN2AGPA0000 | VBN2AGSA0000 | | | |
| | | | 4.7 | VBN2AHPA1000 | VBN2AHSA1000 | VBN2AHPA1001 | VBN2AHSA1001 | VBN2AHPA0000 | VBN2AHSA0000 | | | |
| | | | 8 | VBN2AJPA1000 | VBN2AJSA1000 | VBN2AJPA1001 | VBN2AJSA1001 | VBN2AJPA0000 | VBN2AJSA0000 | | | |
| 3/4" | 130 | | 11.7* | VBN2AKPA1000 | VBN2AKSA1000 | VBN2AKPA1001 | VBN2AKSA1001 | VBN2AKPA0000 | VBN2AKSA0000 | | | |
| | | | 0.31 | VBN2BBPA1000 | VBN2BBSA1000 | VBN2BBPA1001 | VBN2BBSA1001 | VBN2BBPA0000 | VBN2BBSA0000 | | | |
| | | | 0.63 | VBN2BDPA1000 | VBN2BDSA1000 | VBN2BDPA1001 | VBN2BDSA1001 | VBN2BDPA0000 | VBN2BDSA0000 | | | |
| | | | 1.2 | VBN2BEPA1000 | VBN2BESA1000 | VBN2BEPA1001 | VBN2BESA1001 | VBN2BEPA0000 | VBN2BESA0000 | | | |
| | | | 2.5 | VBN2BGPA1000 | VBN2BGSA1000 | VBN2BGPA1001 | VBN2BGSA1001 | VBN2BGPA0000 | VBN2BGSA0000 | | | |
| | | | 4.3 | VBN2BHPA1000 | VBN2BHS1000 | VBN2BHPA1001 | VBN2BHS1001 | VBN2BHPA0000 | VBN2BHS1000 | | | |
| | | | 7.4 | VBN2BJPA1000 | VBN2BJS1000 | VBN2BJPA1001 | VBN2BJS1001 | VBN2BJPA0000 | VBN2BJS1000 | | | |
| | | | 10.1 | VBN2BKPA1000 | VBN2BKS1000 | VBN2BKPA1001 | VBN2BKS1001 | VBN2BKPA0000 | VBN2BKS1000 | | | |
| | | | 14.7* | VBN2BLPA1000 | VBN2BLSA1000 | VBN2BLPA1001 | VBN2BLSA1001 | VBN2BLPA0000 | VBN2BLSA0000 | | | |
| 1" | 100 | | 29* | VBN2BMPA1000 | VBN2BMSA1000 | VBN2BMPA1001 | VBN2BMSA1001 | VBN2BMPA0000 | VBN2BMSA0000 | | | |
| | | | 4.4 | VBN2CHPA1000 | VBN2CHSA1000 | VBN2CHPA1001 | VBN2CHSA1001 | VBN2CHPA0000 | VBN2CHSA0000 | | | |
| | | | 9 | VBN2CJPA1000 | VBN2CJSA1000 | VBN2CJPA1001 | VBN2CJSA1001 | VBN2CJPA0000 | VBN2CJSA0000 | | | |
| | | | 15.3 | VBN2CLPA1000 | VBN2CLSA1000 | VBN2CLPA1001 | VBN2CLSA1001 | VBN2CLPA0000 | VBN2CLSA0000 | | | |
| | | | 26 | VBN2CMPA1000 | VBN2CMSA1000 | VBN2CMPA1001 | VBN2CMSA1001 | VBN2CMPA0000 | VBN2CMSA0000 | | | |
| | | | 44* | VBN2CNPA1000 | VBN2CNSA1000 | VBN2CNPA1001 | VBN2CNSA1001 | VBN2CNPA0000 | VBN2CNSA0000 | | | |
| 1-1/4" | 100 | | 54* | VBN2CPPA1000 | VBN2CPSA1000 | VBN2CPPA1001 | VBN2CPSA1001 | VBN2CPPA0000 | VBN2CPSA0000 | | | |
| | | | 4.4 | VBN2DHPA1000 | VBN2DHSA1000 | VBN2DHPA1001 | VBN2DHSA1001 | VBN2DHPA0000 | VBN2DHSA0000 | | | |
| | | | 8.3 | VBN2DJPA1000 | VBN2DJS1000 | VBN2DJPA1001 | VBN2DJS1001 | VBN2DJPA0000 | VBN2DJS1000 | | | |
| | | | 14.9 | VBN2DKPA1000 | VBN2DKSA1000 | VBN2DKPA1001 | VBN2DKSA1001 | VBN2DKPA0000 | VBN2DKSA0000 | | | |
| | | | 25 | VBN2DLPA1000 | VBN2DLSA1000 | VBN2DLPA1001 | VBN2DLSA1001 | VBN2DLPA0000 | VBN2DLSA0000 | | | |
| | | | 37 | VBN2DMPA1000 | VBN2DMA1000 | VBN2DMPA1001 | VBN2DMA1001 | VBN2DMPA0000 | VBN2DMA1000 | | | |
| | | | 41* | VBN2DNPA1000 | VBN2DNSA1000 | VBN2DNPA1001 | VBN2DNSA1001 | VBN2DNPA0000 | VBN2DNSA0000 | | | |
| | | | 102* | VBN2DSPA1000 | VBN2DSSA1000 | VBN2DSPA1001 | VBN2DSSA1001 | VBN2DSPA0000 | VBN2DSSA0000 | | | |

* Full port ball. No flow characterizing insert.

PRODUCT SELECTION - VALVES

MVN Actuator With Standard Profile 2-Way NPT Valves ½"-1¼"

| Actuator Features | | | Non Fail Safe | | | | | | | |
|---------------------------------------|---------------------------|-----------------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|---------------------|--------------|
| Actuator O.S Number/ Short Order Code | | MVN643A0000 | MVN643A0000+C1 | | MVN713A0000 | | MVN713A0000+C1 | | | |
| Power Supply | | Voltage | 24 VAC/DC | 24 VAC/DC | | 24 VAC/DC | 24 VAC/DC | | | |
| | | Frequency | 50/60 Hz | 50/60 Hz | | 50/60 Hz | 50/60 Hz | | | |
| Actuator Torque | | Power (lb.-in.) | 6 VA | 6 VA | | 5 VA | 5 VA | | | |
| Control | | Modulating (0)2-10Vdc | 27 | 27 | | 27 | 27 | | | |
| | | Floating | • | • | | • | • | | | |
| Actuator Stroke (degrees) | | Fast acting SPDT | 90° ± 3° | 90° ± 3° | | 90° ± 3° | 90° ± 3° | | | |
| Timing | | (seconds) | 30 | 30 | | 90 | 90 | | | |
| Fail Safe Action | | Fail in Place | | Fail in Place | | Fail in Place | | Fail in Place | | |
| Valve Features | | Trim | Nickel-Plated Brass | Ss | Nickel-Plated Brass | Ss | Nickel-Plated Brass | Ss | Nickel-Plated Brass | Ss |
| Valve Size (inches) | Close-off Pressure (psid) | Cv | Short Order Codes | | | | | | | |
| | | | No Cable | | 1 Meter Cable | | No Cable | | 1 Meter Cable | |
| 1/2" | 130 | 0.38 | VBN2ABPA2000 | VBN2ABSA2000 | VBN2ABPA2001 | VBN2ABSA2001 | VBN2ABPA3000 | VBN2ABSA3000 | VBN2ABPA3001 | VBN2ABSA3001 |
| | | 0.68 | VBN2ADPA2000 | VBN2ADSA2000 | VBN2ADPA2001 | VBN2ADSA2001 | VBN2ADPA3000 | VBN2ADSA3000 | VBN2ADPA3001 | VBN2ADSA3001 |
| | | 1.3 | VBN2AEPA2000 | VBN2AES2000 | VBN2AEPA2001 | VBN2AES2001 | VBN2AEPA3000 | VBN2AES2000 | VBN2AEPA3001 | VBN2AES2001 |
| | | 2 | VBN2AFPA2000 | VBN2AFSA2000 | VBN2AFPA2001 | VBN2AFSA2001 | VBN2AFPA3000 | VBN2AFSA3000 | VBN2AFPA3001 | VBN2AFSA3001 |
| | | 2.6 | VBN2AGPA2000 | VBN2AGSA2000 | VBN2AGPA2001 | VBN2AGSA2001 | VBN2AGPA3000 | VBN2AGSA3000 | VBN2AGPA3001 | VBN2AGSA3001 |
| | | 4.7 | VBN2AHPA2000 | VBN2AHSA2000 | VBN2AHPA2001 | VBN2AHSA2001 | VBN2AHPA3000 | VBN2AHSA3000 | VBN2AHPA3001 | VBN2AHSA3001 |
| | | 8 | VBN2AJPA2000 | VBN2AJSA2000 | VBN2AJPA2001 | VBN2AJSA2001 | VBN2AJPA3000 | VBN2AJSA3000 | VBN2AJPA3001 | VBN2AJSA3001 |
| 3/4" | 130 | 11.7* | VBN2AKPA2000 | VBN2AKSA2000 | VBN2AKPA2001 | VBN2AKSA2001 | VBN2AKPA3000 | VBN2AKSA3000 | VBN2AKPA3001 | VBN2AKSA3001 |
| | | 0.31 | VBN2BBPA2000 | VBN2BBSA2000 | VBN2BBPA2001 | VBN2BBSA2001 | VBN2BBPA3000 | VBN2BBSA3000 | VBN2BBPA3001 | VBN2BBSA3001 |
| | | 0.63 | VBN2BDPA2000 | VBN2BDSA2000 | VBN2BDPA2001 | VBN2BDSA2001 | VBN2BDPA3000 | VBN2BDSA3000 | VBN2BDPA3001 | VBN2BDSA3001 |
| | | 1.2 | VBN2BEPA2000 | VBN2BESA2000 | VBN2BEPA2001 | VBN2BESA2001 | VBN2BEPA3000 | VBN2BESA3000 | VBN2BEPA3001 | VBN2BESA3001 |
| | | 2.5 | VBN2BGPA2000 | VBN2BGSA2000 | VBN2BGPA2001 | VBN2BGSA2001 | VBN2BGPA3000 | VBN2BGSA3000 | VBN2BGPA3001 | VBN2BGSA3001 |
| | | 4.3 | VBN2BHPA2000 | VBN2BHS2000 | VBN2BHPA2001 | VBN2BHS2001 | VBN2BHPA3000 | VBN2BHS2000 | VBN2BHPA3001 | VBN2BHS2001 |
| | | 7.4 | VBN2BJPA2000 | VBN2BJS2000 | VBN2BJPA2001 | VBN2BJS2001 | VBN2BJPA3000 | VBN2BJS2000 | VBN2BJPA3001 | VBN2BJS2001 |
| 1" | 100 | 10.1 | VBN2BKPA2000 | VBN2BKS2000 | VBN2BKPA2001 | VBN2BKS2001 | VBN2BKPA3000 | VBN2BKS2000 | VBN2BKPA3001 | VBN2BKS2001 |
| | | 14.7* | VBN2BLPA2000 | VBN2BLS2000 | VBN2BLPA2001 | VBN2BLS2001 | VBN2BLPA3000 | VBN2BLS2000 | VBN2BLPA3001 | VBN2BLS2001 |
| | | 29* | VBN2BMPA2000 | VBN2BMS2000 | VBN2BMPA2001 | VBN2BMS2001 | VBN2BMPA3000 | VBN2BMS2000 | VBN2BMPA3001 | VBN2BMS2001 |
| | | 4.4 | VBN2CHPA2000 | VBN2CHSA2000 | VBN2CHPA2001 | VBN2CHSA2001 | VBN2CHPA3000 | VBN2CHSA3000 | VBN2CHPA3001 | VBN2CHSA3001 |
| | | 9 | VBN2CJPA2000 | VBN2CJSA2000 | VBN2CJPA2001 | VBN2CJSA2001 | VBN2CJPA3000 | VBN2CJSA3000 | VBN2CJPA3001 | VBN2CJSA3001 |
| | | 15.3 | VBN2CLPA2000 | VBN2CLSA2000 | VBN2CLPA2001 | VBN2CLSA2001 | VBN2CLPA3000 | VBN2CLSA3000 | VBN2CLPA3001 | VBN2CLSA3001 |
| 1-1/4" | 100 | 26 | VBN2CMPA2000 | VBN2CMS2000 | VBN2CMPA2001 | VBN2CMS2001 | VBN2CMPA3000 | VBN2CMS2000 | VBN2CMPA3001 | VBN2CMS2001 |
| | | 44* | VBN2CNPA2000 | VBN2CNS2000 | VBN2CNPA2001 | VBN2CNS2001 | VBN2CNPA3000 | VBN2CNS2000 | VBN2CNPA3001 | VBN2CNS2001 |
| | | 54* | VBN2CPPA2000 | VBN2CPA2000 | VBN2CPPA2001 | VBN2CPA2001 | VBN2CPPA3000 | VBN2CPA3000 | VBN2CPPA3001 | VBN2CPA3001 |
| | | 4.4 | VBN2DHPA2000 | VBN2DHS2000 | VBN2DHPA2001 | VBN2DHS2001 | VBN2DHPA3000 | VBN2DHS2000 | VBN2DHPA3001 | VBN2DHS2001 |
| | | 8.3 | VBN2DJPA2000 | VBN2DJS2000 | VBN2DJPA2001 | VBN2DJS2001 | VBN2DJPA3000 | VBN2DJS2000 | VBN2DJPA3001 | VBN2DJS2001 |
| | | 14.9 | VBN2DKPA2000 | VBN2DKS2000 | VBN2DKPA2001 | VBN2DKS2001 | VBN2DKPA3000 | VBN2DKS2000 | VBN2DKPA3001 | VBN2DKS2001 |
| | | 25 | VBN2DLPA2000 | VBN2DLS2000 | VBN2DLPA2001 | VBN2DLS2001 | VBN2DLPA3000 | VBN2DLS2000 | VBN2DLPA3001 | VBN2DLS2001 |
| | | 37 | VBN2DMPA2000 | VBN2DMA2000 | VBN2DMPA2001 | VBN2DMA2001 | VBN2DMPA3000 | VBN2DMA2000 | VBN2DMPA3001 | VBN2DMA2001 |
| | | 41* | VBN2DNPA2000 | VBN2DNS2000 | VBN2DNPA2001 | VBN2DNS2001 | VBN2DNPA3000 | VBN2DNS2000 | VBN2DNPA3001 | VBN2DNS2001 |
| | | 102* | VBN2DSPA2000 | VBN2DSS2000 | VBN2DSP2001 | VBN2DSS2001 | VBN2DSP3000 | VBN2DSS2000 | VBN2DSP3001 | VBN2DSS2001 |

* Full port ball. No flow characterizing insert.

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13

PRODUCT SELECTION - VALVES

MVN Actuator With Low Profile 2-Way NPT Valves 1/2"-1 1/4"

| Actuator Features | | | Non Fail Safe | | | | Valve Only | |
|---------------------------------------|-----------------------|----|-------------------|---------------------|-----------------|---------------------|-----------------|---------------------|
| Actuator O.S Number/ Short Order Code | | | MVN613L0000 | | MVN613L0000 | | N/A | |
| Power Supply | Voltage | | 24 Vac | | 24 Vac | | | |
| | Frequency | | 50/60 Hz | | 50/60 Hz | | | |
| | Power | | 1.5 VA | | 1.5 VA | | | |
| Actuator Torque | (lb.-in.) | | 27 | | 27 | | | |
| Control | Modulating (0)2-10Vdc | | | | | | | |
| | Floating | | • | | • | | | |
| | Fast acting SPDT | | | | | | | |
| Actuator Stroke (degrees) | | | 90° ± 3° | | 90 ± 3 | | | |
| Timing | (seconds) | | 90 | | 90 | | | |
| Fail Safe Action | | | Fail in Place | | Fail in Place | | | |
| Valve Features | | | Trim | Nickel-Plated Brass | Stainless Steel | Nickel-Plated Brass | Stainless Steel | Nickel-Plated Brass |
| 1/2" | 130 | Cv | Short Order Codes | | | | | |
| | | | No Cable | | 1 Meter Cable | | Valve Only | |
| | | | 0.38 | VBN2ABPL1000 | VBN2ABSL1000 | VBN2ABPL1001 | VBN2ABSL1001 | VBN2ABPL0000 |
| | | | 0.68 | VBN2ADPL1000 | VBN2ADSL1000 | VBN2ADPL1001 | VBN2ADSL1001 | VBN2ADPL0000 |
| | | | 1.3 | VBN2AEPL1000 | VBN2AESL1000 | VBN2AEPL1001 | VBN2AESL1001 | VBN2AEPL0000 |
| | | | 2 | VBN2AFPL1000 | VBN2AFSL1000 | VBN2AFPL1001 | VBN2AFSL1001 | VBN2AFPL0000 |
| | | | 2.6 | VBN2AGPL1000 | VBN2AGSL1000 | VBN2AGPL1001 | VBN2AGSL1001 | VBN2AGPL0000 |
| | | | 4.7 | VBN2AHPL1000 | VBN2AHSL1000 | VBN2AHPL1001 | VBN2AHSL1001 | VBN2AHPL0000 |
| | | | 8 | VBN2AJPL1000 | VBN2AJSL1000 | VBN2AJPL1001 | VBN2AJSL1001 | VBN2AJPL0000 |
| 3/4" | 130 | Cv | 11.7* | VBN2AKPL1000 | VBN2AKSL1000 | VBN2AKPL1001 | VBN2AKSL1001 | VBN2AKPL0000 |
| | | | 0.31 | VBN2BBPL1000 | VBN2BBSL1000 | VBN2BBPL1001 | VBN2BBSL1001 | VBN2BBPL0000 |
| | | | 0.63 | VBN2BDPL1000 | VBN2BDSL1000 | VBN2BDPL1001 | VBN2BDSL1001 | VBN2BDPL0000 |
| | | | 1.2 | VBN2BEPL1000 | VBN2BESL1000 | VBN2BEPL1001 | VBN2BESL1001 | VBN2BEPL0000 |
| | | | 2.5 | VBN2BGPL1000 | VBN2B GSL1000 | VBN2BGPL1001 | VBN2B GSL1001 | VBN2BGPL0000 |
| | | | 4.3 | VBN2BHPL1000 | VBN2B HLS1000 | VBN2BHPL1001 | VBN2B HLS1001 | VBN2BHPL0000 |
| | | | 7.4 | VBN2BJPL1000 | VBN2BJS L1000 | VBN2BJPL1001 | VBN2BJS L1001 | VBN2BJPL0000 |
| | | | 10.1 | VBN2BKPL1000 | VBN2B KSL1000 | VBN2BKPL1001 | VBN2B KSL1001 | VBN2BKPL0000 |
| | | | 14.7* | VBN2BLPL1000 | VBN2B LSL1000 | VBN2BLPL1001 | VBN2B LSL1001 | VBN2BLPL0000 |
| 1" | 100 | Cv | 29* | VBN2BMPL1000 | VBN2BMSL1000 | VBN2BMPL1001 | VBN2BMSL1001 | VBN2BMPL0000 |
| | | | 4.4 | VBN2CHPL1000 | VBN2CHSL1000 | VBN2CHPL1001 | VBN2CHSL1001 | VBN2CHPL0000 |
| | | | 9 | VBN2CJPL1000 | VBN2CJSL1000 | VBN2CJPL1001 | VBN2CJSL1001 | VBN2CJPL0000 |
| | | | 15.3 | VBN2CLPL1000 | VBN2CLS L1000 | VBN2CLPL1001 | VBN2CLS L1001 | VBN2CLPL0000 |
| | | | 26 | VBN2CMPL1000 | VBN2CMSL1000 | VBN2CMPL1001 | VBN2CMSL1001 | VBN2CMPL0000 |
| | | | 44* | VBN2CNPL1000 | VBN2CNSL1000 | VBN2CNPL1001 | VBN2CNSL1001 | VBN2CNPL0000 |
| 1-1/4" | 100 | Cv | 54* | VBN2CPPL1000 | VBN2CP SL1000 | VBN2CPPL1001 | VBN2CP SL1001 | VBN2CPPL0000 |
| | | | 4.4 | VBN2DHPL1000 | VBN2D HLS1000 | VBN2DHPL1001 | VBN2D HLS1001 | VBN2DHPL0000 |
| | | | 8.3 | VBN2DJPL1000 | VBN2DJS L1000 | VBN2DJPL1001 | VBN2DJS L1001 | VBN2DJPL0000 |
| | | | 14.9 | VBN2DKPL1000 | VBN2DKSL1000 | VBN2DKPL1001 | VBN2DKSL1001 | VBN2DKPL0000 |
| | | | 25 | VBN2DLPL1000 | VBN2DLSL1000 | VBN2DLPL1001 | VBN2DLSL1001 | VBN2DLPL0000 |
| | | | 37 | VBN2DMPL1000 | VBN2DMSL1000 | VBN2DMPL1001 | VBN2DMSL1001 | VBN2DMPL0000 |
| | | | 41* | VBN2DNPL1000 | VBN2DNSL1000 | VBN2DNPL1001 | VBN2DNSL1001 | VBN2DNPL0000 |
| | | | 102* | VBN2DSPL1000 | VBN2DSSL1000 | VBN2DSPL1001 | VBN2DSSL1001 | VBN2DSPL0000 |

* Full port ball. No flow characterizing insert.

PRODUCT SELECTION - VALVES

MVN Actuator With Low Profile 2-Way NPT Valves ½"-1¼"

| Actuator Features | | | Non Fail Safe | | | | | | | | |
|---------------------------------------|---------------------------|-------|-----------------------|---------------------|-----------------|---------------------|-----------------|---------------------|-----------------|---------------------|-----------------|
| Actuator O.S Number/ Short Order Code | | | MVN643L0000 | | MVN643L0000+C1 | | MVN713L0000 | | MVN713L0000+C1 | | |
| Power Supply | Voltage | | 24 VAC/DC | | 24 VAC/DC | | 24 VAC/DC | | 24 VAC/DC | | |
| | Frequency | | 50/60 Hz | | 50/60 Hz | | 50/60 Hz | | 50/60 Hz | | |
| | Power | | 6 VA | | 6 VA | | 5 VA | | 5 VA | | |
| Actuator Torque | (lb.-in.) | | 27 | | 27 | | 27 | | 27 | | |
| | Control | | Modulating (0)2-10Vdc | | | | • | | • | | |
| Floating | | | | | | | | | | | |
| Fast acting SPDT | | | • | | • | | | | | | |
| Actuator Stroke (degrees) | | | 90° ± 3° | | 90° ± 3° | | 90° ± 3° | | 90° ± 3° | | |
| Timing (seconds) | | | 30 | | 30 | | 90 | | 90 | | |
| Fail Safe Action | | | Fail in Place | | Fail in Place | | Fail in Place | | Fail in Place | | |
| Valve Features | | | Trim | Nickel-Plated Brass | Stainless Steel |
| Valve Size (inches) | Close-off Pressure (psid) | Cv | Short Order Codes | | | | | | | | |
| | | | No Cable | | 1 Meter Cable | | No Cable | | 1 Meter Cable | | |
| 1/2" | 130 | 0.38 | VBN2ABPL2000 | VBN2ABSL2000 | VBN2ABPL2001 | VBN2ABSL2001 | VBN2ABPL3000 | VBN2ABSL3000 | VBN2ABPL3001 | VBN2ABSL3001 | |
| | | 0.68 | VBN2ADPL2000 | VBN2ADSL2000 | VBN2ADPL2001 | VBN2ADSL2001 | VBN2ADPL3000 | VBN2ADSL3000 | VBN2ADPL3001 | VBN2ADSL3001 | |
| | | 1.3 | VBN2AEPL2000 | VBN2AESL2000 | VBN2AEPL2001 | VBN2AESL2001 | VBN2AEPL3000 | VBN2AESL3000 | VBN2AEPL3001 | VBN2AESL3001 | |
| | | 2 | VBN2AFPL2000 | VBN2AFSL2000 | VBN2AFPL2001 | VBN2AFSL2001 | VBN2AFPL3000 | VBN2AFSL3000 | VBN2AFPL3001 | VBN2AFSL3001 | |
| | | 2.6 | VBN2AGPL2000 | VBN2AGSL2000 | VBN2AGPL2001 | VBN2AGSL2001 | VBN2AGPL3000 | VBN2AGSL3000 | VBN2AGPL3001 | VBN2AGSL3001 | |
| | | 4.7 | VBN2AHPL2000 | VBN2AHSLSL2000 | VBN2AHPL2001 | VBN2AHSLSL2001 | VBN2AHPL3000 | VBN2AHSLSL3000 | VBN2AHPL3001 | VBN2AHSLSL3001 | |
| | | 8 | VBN2AJPL2000 | VBN2AJSLSL2000 | VBN2AJPL2001 | VBN2AJSLSL2001 | VBN2AJPL3000 | VBN2AJSLSL3000 | VBN2AJPL3001 | VBN2AJSLSL3001 | |
| | | 11.7* | VBN2AKPL2000 | VBN2AKSL2000 | VBN2AKPL2001 | VBN2AKSL2001 | VBN2AKPL3000 | VBN2AKSL3000 | VBN2AKPL3001 | VBN2AKSL3001 | |
| 3/4" | 130 | 0.31 | VBN2BBPL2000 | VBN2BBSL2000 | VBN2BBPL2001 | VBN2BBSL2001 | VBN2BBPL3000 | VBN2BBSL3000 | VBN2BBPL3001 | VBN2BBSL3001 | |
| | | 0.63 | VBN2BDPL2000 | VBN2BDSL2000 | VBN2BDPL2001 | VBN2BDSL2001 | VBN2BDPL3000 | VBN2BDSL3000 | VBN2BDPL3001 | VBN2BDSL3001 | |
| | | 1.2 | VBN2BEPL2000 | VBN2BESL2000 | VBN2BEPL2001 | VBN2BESL2001 | VBN2BEPL3000 | VBN2BESL3000 | VBN2BEPL3001 | VBN2BESL3001 | |
| | | 2.5 | VBN2BGPL2000 | VBN2BGSL2000 | VBN2BGPL2001 | VBN2BGSL2001 | VBN2BGPL3000 | VBN2BGSL3000 | VBN2BGPL3001 | VBN2BGSL3001 | |
| | | 4.3 | VBN2BHPL2000 | VBN2BHSLSL2000 | VBN2BHPL2001 | VBN2BHSLSL2001 | VBN2BHPL3000 | VBN2BHSLSL3000 | VBN2BHPL3001 | VBN2BHSLSL3001 | |
| | | 7.4 | VBN2BJPL2000 | VBN2BJSLSL2000 | VBN2BJPL2001 | VBN2BJSLSL2001 | VBN2BJPL3000 | VBN2BJSLSL3000 | VBN2BJPL3001 | VBN2BJSLSL3001 | |
| | | 10.1 | VBN2BKPL2000 | VBN2BKSL2000 | VBN2BKPL2001 | VBN2BKSL2001 | VBN2BKPL3000 | VBN2BKSL3000 | VBN2BKPL3001 | VBN2BKSL3001 | |
| | | 14.7* | VBN2BLPL2000 | VBN2BLSL2000 | VBN2BLPL2001 | VBN2BLSL2001 | VBN2BLPL3000 | VBN2BLSL3000 | VBN2BLPL3001 | VBN2BLSL3001 | |
| 1" | 100 | 29* | VBN2BMPL2000 | VBN2BMSL2000 | VBN2BMPL2001 | VBN2BMSL2001 | VBN2BMPL3000 | VBN2BMSL3000 | VBN2BMPL3001 | VBN2BMSL3001 | |
| | | 4.4 | VBN2CHPL2000 | VBN2CHSL2000 | VBN2CHPL2001 | VBN2CHSL2001 | VBN2CHPL3000 | VBN2CHSL3000 | VBN2CHPL3001 | VBN2CHSL3001 | |
| | | 9 | VBN2CJPL2000 | VBN2CJSL2000 | VBN2CJPL2001 | VBN2CJSL2001 | VBN2CJPL3000 | VBN2CJSL3000 | VBN2CJPL3001 | VBN2CJSL3001 | |
| | | 15.3 | VBN2CLPL2000 | VBN2CLSL2000 | VBN2CLPL2001 | VBN2CLSL2001 | VBN2CLPL3000 | VBN2CLSL3000 | VBN2CLPL3001 | VBN2CLSL3001 | |
| | | 26 | VBN2CMPL2000 | VBN2CMSL2000 | VBN2CMPL2001 | VBN2CMSL2001 | VBN2CMPL3000 | VBN2CMSL3000 | VBN2CMPL3001 | VBN2CMSL3001 | |
| | | 44* | VBN2CNPL2000 | VBN2CNSL2000 | VBN2CNPL2001 | VBN2CNSL2001 | VBN2CNPL3000 | VBN2CNSL3000 | VBN2CNPL3001 | VBN2CNSL3001 | |
| 1-1/4" | 100 | 54* | VBN2CPPL2000 | VBN2CPSL2000 | VBN2CPPL2001 | VBN2CPSL2001 | VBN2CPPL3000 | VBN2CPSL3000 | VBN2CPPL3001 | VBN2CPSL3001 | |
| | | 4.4 | VBN2DHPL2000 | VBN2DHSLSL2000 | VBN2DHPL2001 | VBN2DHSLSL2001 | VBN2DHPL3000 | VBN2DHSLSL3000 | VBN2DHPL3001 | VBN2DHSLSL3001 | |
| | | 8.3 | VBN2DJPL2000 | VBN2DJSLSL2000 | VBN2DJPL2001 | VBN2DJSLSL2001 | VBN2DJPL3000 | VBN2DJSLSL3000 | VBN2DJPL3001 | VBN2DJSLSL3001 | |
| | | 14.9 | VBN2DKPL2000 | VBN2DKSL2000 | VBN2DKPL2001 | VBN2DKSL2001 | VBN2DKPL3000 | VBN2DKSL3000 | VBN2DKPL3001 | VBN2DKSL3001 | |
| | | 25 | VBN2DLPL2000 | VBN2DLSL2000 | VBN2DLPL2001 | VBN2DLSL2001 | VBN2DLPL3000 | VBN2DLSL3000 | VBN2DLPL3001 | VBN2DLSL3001 | |
| | | 37 | VBN2DMPL2000 | VBN2DMSL2000 | VBN2DMPL2001 | VBN2DMSL2001 | VBN2DMPL3000 | VBN2DMSL3000 | VBN2DMPL3001 | VBN2DMSL3001 | |
| | | 41* | VBN2DNPL2000 | VBN2DNSL2000 | VBN2DNPL2001 | VBN2DNSL2001 | VBN2DNPL3000 | VBN2DNSL3000 | VBN2DNPL3001 | VBN2DNSL3001 | |
| | | 102* | VBN2DSPL2000 | VBN2DSSL2000 | VBN2DSPL2001 | VBN2DSSL2001 | VBN2DSPL3000 | VBN2DSSL3000 | VBN2DSPL3001 | VBN2DSSL3001 | |

* Full port ball. No flow characterizing insert.

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15

PRODUCT SELECTION - VALVES

MVN Actuator With Standard Profile 3-Way NPT Valves ½"-1¼"

| Actuator Features | | | Non Fail Safe | | | | | | Valve Only |
|---------------------------------------|---------------------------|-----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Actuator O.S Number/ Short Order Code | | MVN613A0000 | MVN613A0000+C1 | MVN643A0000 | MVN643A0000+C1 | MVN713A0000 | MVN713A0000+C1 | N/A | |
| Power Supply | | Voltage | 24 Vac | |
| | | Frequency | 50/60 Hz | |
| | | Power | 1.5 VA | 1.5 VA | 6 VA | 6 VA | 5 VA | 5 VA | |
| Actuator Torque | | (lb.-in.) | 27 | 27 | 27 | 27 | 27 | 27 | |
| Control | | Modulating (0)2-10Vdc | | | | | • | • | |
| | | Floating | • | • | | | | | |
| | | Fast acting SPDT | | | • | • | | | |
| Actuator Stroke (degrees) | | | 90±3 | 90±3 | 90±3 | 90±3 | 90±3 | 90±3 | |
| Timing | | (seconds) | 90 | 90 | 30 | 30 | 90 | 90 | |
| Fail Safe Action | | | Fail in Place | |
| Valve Features | | Trim | Nickel-Plated Brass |
| Valve Size (inches) | Close-off Pressure (psid) | Cv | Short Order Codes | | | | | | |
| | | | No Cable | 1 Meter Cable | No Cable | 1 Meter Cable | No Cable | 1 Meter Cable | Valve Only |
| 1/2" | 50 | 0.33 | VBN3ABPA1000 | VBN3ABPA1001 | VBN3ABPA2000 | VBN3ABPA2001 | VBN3ABPA3000 | VBN3ABPA3001 | VBN3ABPA0000 |
| | | 0.59 | VBN3ACPA1000 | VBN3ACPA1001 | VBN3ACPA2000 | VBN3ACPA2001 | VBN3ACPA3000 | VBN3ACPA3001 | VBN3ACPA0000 |
| | | 1 | VBN3AEPA1000 | VBN3AEPA1001 | VBN3AEPA2000 | VBN3AEPA2001 | VBN3AEPA3000 | VBN3AEPA3001 | VBN3AEPA0000 |
| | | 2.4 | VBN3AFPA1000 | VBN3AFPA1001 | VBN3AFPA2000 | VBN3AFPA2001 | VBN3AFPA3000 | VBN3AFPA3001 | VBN3AFPA0000 |
| | | 4.3 | VBN3AHPA1000 | VBN3AHPA1001 | VBN3AHPA2000 | VBN3AHPA2001 | VBN3AHPA3000 | VBN3AHPA3001 | VBN3AHPA0000 |
| | | 8* | VBN3AJPA1000 | VBN3AJPA1001 | VBN3AJPA2000 | VBN3AJPA2001 | VBN3AJPA3000 | VBN3AJPA3001 | VBN3AJPA0000 |
| 3/4" | 50 | 0.4 | VBN3BCPA1000 | VBN3BCPA1001 | VBN3BCPA2000 | VBN3BCPA2001 | VBN3BCPA3000 | VBN3BCPA3001 | VBN3BCPA0000 |
| | | 0.66 | VBN3BDPA1000 | VBN3BDPA1001 | VBN3BDPA2000 | VBN3BDPA2001 | VBN3BDPA3000 | VBN3BDPA3001 | VBN3BDPA0000 |
| | | 1.3 | VBN3BEPA1000 | VBN3BEPA1001 | VBN3BEPA2000 | VBN3BEPA2001 | VBN3BEPA3000 | VBN3BEPA3001 | VBN3BEPA0000 |
| | | 2.4 | VBN3BFPA1000 | VBN3BFPA1001 | VBN3BFPA2000 | VBN3BFPA2001 | VBN3BFPA3000 | VBN3BFPA3001 | VBN3BFPA0000 |
| | | 3.8 | VBN3BGPA1000 | VBN3BGPA1001 | VBN3BGPA2000 | VBN3BGPA2001 | VBN3BGPA3000 | VBN3BGPA3001 | VBN3BGPA0000 |
| | | 7 | VBN3BJPA1000 | VBN3BJPA1001 | VBN3BJPA2000 | VBN3BJPA2001 | VBN3BJPA3000 | VBN3BJPA3001 | VBN3BJPA0000 |
| 1" | 50 | 11* | VBN3BKPA1000 | VBN3BKPA1001 | VBN3BKPA2000 | VBN3BKPA2001 | VBN3BKPA3000 | VBN3BKPA3001 | VBN3BKPA0000 |
| | | 0.4 | VBN3CCPA1000 | VBN3CCPA1001 | VBN3CCPA2000 | VBN3CCPA2001 | VBN3CCPA3000 | VBN3CCPA3001 | VBN3CCPA0000 |
| | | 0.65 | VBN3CDPA1000 | VBN3CDPA1001 | VBN3CDPA2000 | VBN3CDPA2001 | VBN3CDPA3000 | VBN3CDPA3001 | VBN3CDPA0000 |
| | | 1.3 | VBN3CEPA1000 | VBN3CEPA1001 | VBN3CEPA2000 | VBN3CEPA2001 | VBN3CEPA3000 | VBN3CEPA3001 | VBN3CEPA0000 |
| | | 2.3 | VBN3CFPA1000 | VBN3CFPA1001 | VBN3CFPA2000 | VBN3CFPA2001 | VBN3CFPA3000 | VBN3CFPA3001 | VBN3CFPA0000 |
| | | 3.5 | VBN3CGPA1000 | VBN3CGPA1001 | VBN3CGPA2000 | VBN3CGPA2001 | VBN3CGPA3000 | VBN3CGPA3001 | VBN3CGPA0000 |
| | | 4.5 | VBN3CHPA1000 | VBN3CHPA1001 | VBN3CHPA2000 | VBN3CHPA2001 | VBN3CHPA3000 | VBN3CHPA3001 | VBN3CHPA0000 |
| | | 8.6 | VBN3CJPA1000 | VBN3CJPA1001 | VBN3CJPA2000 | VBN3CJPA2001 | VBN3CJPA3000 | VBN3CJPA3001 | VBN3CJPA0000 |
| | | 14.9 | VBN3CKPA1000 | VBN3CKPA1001 | VBN3CKPA2000 | VBN3CKPA2001 | VBN3CKPA3000 | VBN3CKPA3001 | VBN3CKPA0000 |
| | | 22* | VBN3CLPA1000 | VBN3CLPA1001 | VBN3CLPA2000 | VBN3CLPA2001 | VBN3CLPA3000 | VBN3CLPA3001 | VBN3CLPA0000 |
| 1-1/4" | 40 | 31* | VBN3CMPA1000 | VBN3CMPA1001 | VBN3CMPA2000 | VBN3CMPA2001 | VBN3CMPA3000 | VBN3CMPA3001 | VBN3CMPA0000 |
| | | 4.1 | VBN3DHPA1000 | VBN3DHPA1001 | VBN3DHPA2000 | VBN3DHPA2001 | VBN3DHPA3000 | VBN3DHPA3001 | VBN3DHPA0000 |
| | | 8.7 | VBN3DJPA1000 | VBN3DJPA1001 | VBN3DJPA2000 | VBN3DJPA2001 | VBN3DJPA3000 | VBN3DJPA3001 | VBN3DJPA0000 |
| | | 12.7 | VBN3DKPA1000 | VBN3DKPA1001 | VBN3DKPA2000 | VBN3DKPA2001 | VBN3DKPA3000 | VBN3DKPA3001 | VBN3DKPA0000 |
| | | 19.4* | VBN3DLPA1000 | VBN3DLPA1001 | VBN3DLPA2000 | VBN3DLPA2001 | VBN3DLPA3000 | VBN3DLPA3001 | VBN3DLPA0000 |
| | | 27 | VBN3DMPA1000 | VBN3DMPA1001 | VBN3DMPA2000 | VBN3DMPA2001 | VBN3DMPA3000 | VBN3DMPA3001 | VBN3DMPA0000 |
| | | 34* | VBN3DNPA1000 | VBN3DNPA1001 | VBN3DNPA2000 | VBN3DNPA2001 | VBN3DNPA3000 | VBN3DNPA3001 | VBN3DNPA0000 |

* Full port ball. No flow characterizing insert.



PRODUCT SELECTION - VALVES

MVN Actuator With Low Profile 3-Way NPT Valves ½"-1¼"



| Actuator Features | | | Non Fail Safe | | | | | | Valve Only |
|---------------------------------------|---------------------------|---------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Actuator O.S Number/ Short Order Code | | MVN613L0000 | MVN613L0000+C1 | MVN643L0000 | MVN643L0000+C1 | MVN713L0000 | MVN713L0000+C1 | N/A | |
| Power Supply | Voltage | 24 VAC | 24 VAC | 24 VAC/DC | 24VAC/DC | 24 VAC/DC | 24 VAC/DC | 24 VAC/DC | |
| | Frequency | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz | |
| | Power | 1.5 VA | 1.5 VA | 6 VA | 6 VA | 5 VA | 5 VA | 5 VA | |
| Actuator Torque | (lb.-in.) | 27 | 27 | 27 | 27 | 27 | 27 | 27 | |
| Control | Modulating (0)2-10Vdc | | | | | • | • | | |
| | Floating | • | • | | | | | | |
| | Fast acting SPDT | | | • | • | | | | |
| Actuator Stroke (degrees) | | 90°± 3° | 90°± 3° | 90°± 3° | 90°± 3° | 90°± 3° | 90°± 3° | 90°± 3° | |
| Timing (seconds) | | 90 | 90 | 30 | 30 | 90 | 90 | | |
| Fail Safe Action | | Fail in Place | Fail in Place | Fail in Place | Fail in Place | Fail in Place | Fail in Place | Fail in Place | |
| Valve Features | | Trim | Nickel-Plated Brass |
| Valve Size (inches) | Close-off Pressure (psid) | Cv | Short Order Codes | | | | | | |
| | | | No Cable | 1 Meter Cable | No Cable | 1 Meter Cable | No Cable | 1 Meter Cable | Valve Only |
| 1/2" | 50 | 0.33 | VBN3ABPL1000 | VBN3ABPL1001 | VBN3ABPL2000 | VBN3ABPL2001 | VBN3ABPL3000 | VBN3ABPL3001 | VBN3ABPL0000 |
| | | 0.59 | VBN3ACPL1000 | VBN3ACPL1001 | VBN3ACPL2000 | VBN3ACPL2001 | VBN3ACPL3000 | VBN3ACPL3001 | VBN3ACPL0000 |
| | | 1 | VBN3AEPL1000 | VBN3AEPL1001 | VBN3AEPL2000 | VBN3AEPL2001 | VBN3AEPL3000 | VBN3AEPL3001 | VBN3AEPL0000 |
| | | 2.4 | VBN3AFPL1000 | VBN3AFPL1001 | VBN3AFPL2000 | VBN3AFPL2001 | VBN3AFPL3000 | VBN3AFPL3001 | VBN3AFPL0000 |
| | | 4.3 | VBN3AHPL1000 | VBN3AHPL1001 | VBN3AHPL2000 | VBN3AHPL2001 | VBN3AHPL3000 | VBN3AHPL3001 | VBN3AHPL0000 |
| | | 8* | VBN3AJPL1000 | VBN3AJPL1001 | VBN3AJPL2000 | VBN3AJPL2001 | VBN3AJPL3000 | VBN3AJPL3001 | VBN3AJPL0000 |
| 3/4" | 50 | 0.4 | VBN3BCPL1000 | VBN3BCPL1001 | VBN3BCPL2000 | VBN3BCPL2001 | VBN3BCPL3000 | VBN3BCPL3001 | VBN3BCPL0000 |
| | | 0.66 | VBN3BDPL1000 | VBN3BDPL1001 | VBN3BDPL2000 | VBN3BDPL2001 | VBN3BDPL3000 | VBN3BDPL3001 | VBN3BDPL0000 |
| | | 1.3 | VBN3BEPL1000 | VBN3BEPL1001 | VBN3BEPL2000 | VBN3BEPL2001 | VBN3BEPL3000 | VBN3BEPL3001 | VBN3BEPL0000 |
| | | 2.4 | VBN3BFPL1000 | VBN3BFPL1001 | VBN3BFPL2000 | VBN3BFPL2001 | VBN3BFPL3000 | VBN3BFPL3001 | VBN3BFPL0000 |
| | | 3.8 | VBN3BGPL1000 | VBN3BGPL1001 | VBN3BGPL2000 | VBN3BGPL2001 | VBN3BGPL3000 | VBN3BGPL3001 | VBN3BGPL0000 |
| | | 7 | VBN3BJPL1000 | VBN3BJPL1001 | VBN3BJPL2000 | VBN3BJPL2001 | VBN3BJPL3000 | VBN3BJPL3001 | VBN3BJPL0000 |
| | | 11* | VBN3BKPL1000 | VBN3BKPL1001 | VBN3BKPL2000 | VBN3BKPL2001 | VBN3BKPL3000 | VBN3BKPL3001 | VBN3BKPL0000 |
| | | | | | | | | | |
| 1" | 50 | 0.4 | VBN3CCPL1000 | VBN3CCPL1001 | VBN3CCPL2000 | VBN3CCPL2001 | VBN3CCPL3000 | VBN3CCPL3001 | VBN3CCPL0000 |
| | | 0.65 | VBN3CDPL1000 | VBN3CDPL1001 | VBN3CDPL2000 | VBN3CDPL2001 | VBN3CDPL3000 | VBN3CDPL3001 | VBN3CDPL0000 |
| | | 1.3 | VBN3CEPL1000 | VBN3CEPL1001 | VBN3CEPL2000 | VBN3CEPL2001 | VBN3CEPL3000 | VBN3CEPL3001 | VBN3CEPL0000 |
| | | 2.3 | VBN3CFPL1000 | VBN3CFPL1001 | VBN3CFPL2000 | VBN3CFPL2001 | VBN3CFPL3000 | VBN3CFPL3001 | VBN3CFPL0000 |
| | | 3.5 | VBN3CGPL1000 | VBN3CGPL1001 | VBN3CGPL2000 | VBN3CGPL2001 | VBN3CGPL3000 | VBN3CGPL3001 | VBN3CGPL0000 |
| | | 4.5 | VBN3CHPL1000 | VBN3CHPL1001 | VBN3CHPL2000 | VBN3CHPL2001 | VBN3CHPL3000 | VBN3CHPL3001 | VBN3CHPL0000 |
| | | 8.6 | VBN3CJPL1000 | VBN3CJPL1001 | VBN3CJPL2000 | VBN3CJPL2001 | VBN3CJPL3000 | VBN3CJPL3001 | VBN3CJPL0000 |
| | | 14.9 | VBN3CKPL1000 | VBN3CKPL1001 | VBN3CKPL2000 | VBN3CKPL2001 | VBN3CKPL3000 | VBN3CKPL3001 | VBN3CKPL0000 |
| | | 22* | VBN3CLPL1000 | VBN3CLPL1001 | VBN3CLPL2000 | VBN3CLPL2001 | VBN3CLPL3000 | VBN3CLPL3001 | VBN3CLPL0000 |
| | | 31* | VBN3CMPL1000 | VBN3CMPL1001 | VBN3CMPL2000 | VBN3CMPL2001 | VBN3CMPL3000 | VBN3CMPL3001 | VBN3CMPL0000 |
| 1-1/4" | 40 | 4.1 | VBN3DHPL1000 | VBN3DHPL1001 | VBN3DHPL2000 | VBN3DHPL2001 | VBN3DHPL3000 | VBN3DHPL3001 | VBN3DHPL0000 |
| | | 8.7 | VBN3DJPL1000 | VBN3DJPL1001 | VBN3DJPL2000 | VBN3DJPL2001 | VBN3DJPL3000 | VBN3DJPL3001 | VBN3DJPL0000 |
| | | 12.7 | VBN3DKPL1000 | VBN3DKPL1001 | VBN3DKPL2000 | VBN3DKPL2001 | VBN3DKPL3000 | VBN3DKPL3001 | VBN3DKPL0000 |
| | | 19.4* | VBN3DLPL1000 | VBN3DLPL1001 | VBN3DLPL2000 | VBN3DLPL2001 | VBN3DLPL3000 | VBN3DLPL3001 | VBN3DLPL0000 |
| | | 27 | VBN3DMPL1000 | VBN3DMPL1001 | VBN3DMPL2000 | VBN3DMPL2001 | VBN3DMPL3000 | VBN3DMPL3001 | VBN3DMPL0000 |
| | | 34* | VBN3DNPL1000 | VBN3DNPL1001 | VBN3DNPL2000 | VBN3DNPL2001 | VBN3DNPL3000 | VBN3DNPL3001 | VBN3DNPL0000 |

* Full port ball. No flow characterizing insert.

PRODUCT SELECTION - VALVES

2-Way NPT Valves 1/2"- 3", NEMA 2

| Actuator Features | | | Non Fail Safe | | | |
|------------------------------------|---------------------------|-------------------------------------|---------------------|-----------------|---------------------|-----------------|
| Actuator O.S. Number | | | MN6105A1011 | | MN6105A1201 | |
| Power Supply | | Voltage | 24 VAC/DC | | 24 VAC/DC | |
| | | Frequency | 50 / 60 Hz | | 50 / 60 Hz | |
| | | Power | 5 VA | | 5 VA | |
| Actuator Torque | | (lb.-in.) | 44 | | 44 | |
| Control | | (0)2-10 Vdc | | | | |
| | | 4-20 mA (external 500 Ohm Resistor) | | | | |
| | | Floating | • | | • | |
| | | Two-Position SPDT | • | | • | |
| | | Two-Position SPST | | | | |
| Actuator Stroke | | (degrees) | 95° ± 3° | | 95° ± 3° | |
| Timing | | (drive/spring return, seconds) | 90 | | 90 | |
| Aux Switch | | | 0 | | 2 | |
| Feedback | | 2-10 Vdc Built In | - | | - | |
| Fail Safe Action | | | Stay in Place | | Stay in Place | |
| Normal Position (no signal) | | | Stay in Place | | Stay in Place | |
| Valve Features | | Trim | Nickel-Plated Brass | Stainless Steel | Nickel-Plated Brass | Stainless Steel |
| Valve Size (inches) | Close-off Pressure (psid) | Cv | Short Order Codes | | | |
| 1/2" | 130 | 0.38 | VBN2ABPX4000 | VBN2ABSX4000 | VBN2ABPXCO00 | VBN2ABSXCO00 |
| | | 0.68 | VBN2ADPX4000 | VBN2ADSX4000 | VBN2ADPXCO00 | VBN2ADSXCO00 |
| | | 1.3 | VBN2AEPX4000 | VBN2AESX4000 | VBN2AEPXCO00 | VBN2AESXCO00 |
| | | 2 | VBN2AFX4000 | VBN2AFSX4000 | VBN2AFXCO00 | VBN2AFSXCO00 |
| | | 2.6 | VBN2AGPX4000 | VBN2AGSX4000 | VBN2AGPXCO00 | VBN2AGSXCO00 |
| | | 4.7 | VBN2AHPX4000 | VBN2AHSX4000 | VBN2AHPXCO00 | VBN2AHSXCO00 |
| | | 8 | VBN2AJPX4000 | VBN2AJSX4000 | VBN2AJPXCO00 | VBN2AJSXCO00 |
| | | 11.7* | VBN2AKPX4000 | VBN2AKSX4000 | VBN2AKPXCO00 | VBN2AKSXCO00 |
| 3/4" | 130 | 0.31 | VBN2BBDPX4000 | VBN2BBSX4000 | VBN2BBPXCO00 | VBN2BBSXCO00 |
| | | 0.63 | VBN2BDPX4000 | VBN2BDSX4000 | VBN2BDPXCO00 | VBN2BDSXCO00 |
| | | 1.2 | VBN2BEPX4000 | VBN2BESX4000 | VBN2BEPXCO00 | VBN2BESXCO00 |
| | | 2.5 | VBN2BGPX4000 | VBN2BGSX4000 | VBN2BGPXCO00 | VBN2BGSXCO00 |
| | | 4.3 | VBN2BHPX4000 | VBN2BHSX4000 | VBN2BHPXCO00 | VBN2BHSXCO00 |
| | | 7.4 | VBN2BJPX4000 | VBN2BJSX4000 | VBN2BJPXCO00 | VBN2BJSXCO00 |
| | | 10.1 | VBN2BKPX4000 | VBN2BKSX4000 | VBN2BKPXCO00 | VBN2BKSXCO00 |
| 1" | 100 | 14.7* | VBN2BLPX4000 | VBN2BLSX4000 | VBN2BLPXCO00 | VBN2BLSXCO00 |
| | | 29* | VBN2BMPX4000 | VBN2BMSX4000 | VBN2BMPXCO00 | VBN2BMSXCO00 |
| | | 4.4 | VBN2CHPX4000 | VBN2CHSX4000 | VBN2CHPXCO00 | VBN2CHSXCO00 |
| | | 9 | VBN2CJPX4000 | VBN2CJSX4000 | VBN2CJPXCO00 | VBN2CJSXCO00 |
| | | 15.3 | VBN2CLPX4000 | VBN2CLSX4000 | VBN2CLPXCO00 | VBN2CLSXCO00 |
| | | 26 | VBN2CMPX4000 | VBN2CMSX4000 | VBN2CMPXCO00 | VBN2CMSXCO00 |
| | | 44* | VBN2CNPX4000 | VBN2CNSX4000 | VBN2CNPXCO00 | VBN2CNSXCO00 |
| 1-1/4" | 100 | 54* | VBN2CPPX4000 | VBN2CPSX4000 | VBN2CPPXCO00 | VBN2CPSXCO00 |
| | | 4.4 | VBN2DHPX4000 | VBN2DHSX4000 | VBN2DHPXCO00 | VBN2DHSXCO00 |
| | | 8.3 | VBN2DJPX4000 | VBN2DJSX4000 | VBN2DJPXCO00 | VBN2DJSXCO00 |
| | | 14.9 | VBN2DKPX4000 | VBN2DKSX4000 | VBN2DKPXCO00 | VBN2DKSXCO00 |
| | | 25 | VBN2DLPX4000 | VBN2DLSX4000 | VBN2DLPXCO00 | VBN2DLSXCO00 |
| | | 37 | VBN2DMPX4000 | VBN2DMSX4000 | VBN2DMPXCO00 | VBN2DMSXCO00 |
| | | 41* | VBN2DNPX4000 | VBN2DNSX4000 | VBN2DNPXCO00 | VBN2DNSXCO00 |
| 1-1/2" | 100 | 102* | VBN2DSPX4000 | VBN2DSSX4000 | VBN2DSPXCO00 | VBN2DSSXCO00 |
| | | 23 | VBN2ELPX4000 | VBN2ELSX4000 | VBN2ELPXCO00 | VBN2ELSXCO00 |
| | | 30 | VBN2EMPX4000 | VBN2EMSX4000 | VBN2EMPXCO00 | VBN2EMSXCO00 |
| | | 41 | VBN2ENPX4000 | VBN2ENSX4000 | VBN2ENPXCO00 | VBN2ENSXCO00 |
| | | 74* | VBN2ERPX4000 | VBN2ERSX4000 | VBN2ERPXCO00 | VBN2ERSXCO00 |
| | | 172* | VBN2E1PX4000 | VBN2E1SX4000 | VBN2E1PXCO00 | VBN2E1SXCO00 |
| | | 42 | VBN2FNPX4000 | VBN2FNSX4000 | VBN2FNPXCO00 | VBN2FNSXCO00 |
| 2" | 100 | 57 | VBN2FPPX4000 | VBN2FPSX4000 | VBN2FPPXCO00 | VBN2FPSXCO00 |
| | | 71 | VBN2FRPX4000 | VBN2FRSX4000 | VBN2FRPXCO00 | VBN2FRSXCO00 |
| | | 100 | VBN2FSPX4000 | VBN2FSSX4000 | VBN2FSPXCO00 | VBN2FSSXCO00 |
| | | 108* | VBN2FTPX4000 | VBN2FTSX4000 | VBN2FTPXCO00 | VBN2FTSXCO00 |
| | | 210 | VBN2F1PX4000 | VBN2F1SX4000 | VBN2F1PXCO00 | VBN2F1SXCO00 |
| | | 266* | VBN2F2PX4000 | VBN2F2SX4000 | VBN2F2PXCO00 | VBN2F2SXCO00 |
| | | 45 | VBN2GNPX4000 | VBN2GNSX4000 | VBN2GNPXCO00 | VBN2GNSXCO00 |
| 2-1/2" | 100 | 55 | VBN2GPPX4000 | VBN2GPSX4000 | VBN2GPPXCO00 | VBN2GPSXCO00 |
| | | 72 | VBN2GRPX4000 | VBN2GRSX4000 | VBN2GRPXCO00 | VBN2GRSXCO00 |
| | | 101 | VBN2GSPX4000 | VBN2GSSX4000 | VBN2GSPXCO00 | VBN2GSSXCO00 |
| | | 162 | VBN2GUPX4000 | VBN2GUSX4000 | VBN2GUPXCO00 | VBN2GUSXCO00 |
| | | 202* | VBN2G1PX4000 | VBN2GLSX4000 | VBN2G1PXCO00 | VBN2G1SXCO00 |
| | | 49 | VBN2HNPX4000 | VBN2HNSX4000 | VBN2HNPXCO00 | VBN2HNSXCO00 |
| | | 63 | VBN2HPPX4000 | VBN2HPSX4000 | VBN2HPPXCO00 | VBN2HPSXCO00 |
| 3" | 100 | 82 | VBN2HRPX4000 | VBN2HRSX4000 | VBN2HRPXCO00 | VBN2HRSXCO00 |
| | | 124 | VBN2HTPX4000 | VBN2HTSX4000 | VBN2HTPXCO00 | VBN2HTSXCO00 |
| | | 145* | VBN2HUPX4000 | VBN2HUSX4000 | VBN2HUPXCO00 | VBN2HUSXCO00 |

* Full port ball. No flow characterizing insert.



PRODUCT SELECTION - VALVES

2-Way NPT Valves 1/2"- 1-1/4", NEMA 2

| Actuator Features | | | Fail Safe | | | | | | | |
|-------------------------------------|---------------------------|--------------------------------|---------------------|-----------------|---------------------|-----------------|---------------------|-----------------|---------------------|-----------------|
| Actuator O.S. Number | | | MS3103J1023 | | | | MS3103J1223 | | | |
| Power Supply | | Voltage | 24 VAC/DC | | | | 24 VAC/DC | | | |
| | | Frequency | 50 / 60 Hz | | | | 50 / 60 Hz | | | |
| | | Power | 4.5 VA | | | | 4.5 VA | | | |
| Actuator Torque | | (lb.-in.) | 27 | | | | 27 | | | |
| Control | | (0)2-10 Vdc | | | | | | | | |
| 4-20 mA (external 500 Ohm Resistor) | | Sylk | • | | | | • | | | |
| | | Two-Position SPDT | | | | | | | | |
| | | Two-Position SPST | | | | | | | | |
| Actuator Stroke | | (degrees) | 95° ± 3° | | | | 95° ± 3° | | | |
| Timing | | (drive/spring return, seconds) | 30-180 / 25 | | | | 30-180 / 25 | | | |
| Aux Switch | | | 0 | | | | 2 | | | |
| Feedback | | 2-10 Vdc Built In | Sylk | | | | Sylk | | | |
| Fail Safe Action | | | Closed | | Open | | Closed | | Open | |
| Normal Position (no signal) | | | Closed | | Open | | Closed | | Open | |
| Valve Features | | Trim | Nickel-Plated Brass | Stainless Steel |
| Valve Size (inches) | Close-off Pressure (psid) | Cv | Short Order Codes | | | | | | | |
| 1/2" | 130 | 0.38 | VBN2ABPG201 | VBN2ABSXG201 | VBN2ABPGX101 | VBN2ABSXG101 | VBN2ABPXH201 | VBN2ABSXH201 | VBN2ABPXH101 | VBN2ABSXH101 |
| | | 0.68 | VBN2ADPG201 | VBN2ADSGX201 | VBN2ADPGX101 | VBN2ADSGX101 | VBN2ADPXH201 | VBN2ADSH201 | VBN2ADPXH101 | VBN2ADSH101 |
| | | 1.3 | VBN2AEPGX201 | VBN2AESXG201 | VBN2AEPXG101 | VBN2AESXG101 | VBN2AEPXH201 | VBN2AESXH201 | VBN2AEPXH101 | VBN2AESXH101 |
| | | 2 | VBN2AFPG201 | VBN2AFSXG201 | VBN2AFPGX101 | VBN2AFSXG101 | VBN2AFPXH201 | VBN2AFSXH201 | VBN2AFPXH101 | VBN2AFSXH101 |
| | | 2.6 | VBN2AGPG201 | VBN2AGSXG201 | VBN2AGPGX101 | VBN2AGSXG101 | VBN2AGPXH201 | VBN2AGSXH201 | VBN2AGPXH101 | VBN2AGSXH101 |
| | | 4.7 | VBN2AHPGX201 | VBN2AHSXG201 | VBN2AHPXG101 | VBN2AHSXG101 | VBN2AHPXH201 | VBN2AHSXH201 | VBN2AHPXH101 | VBN2AHSXH101 |
| | | 8 | VBN2AJPG201 | VBN2AJSXG201 | VBN2AJPXG101 | VBN2AJSXG101 | VBN2AJPXH201 | VBN2AJSXH201 | VBN2AJPXH101 | VBN2AJSXH101 |
| | | 11.7* | VBN2AKPG201 | VBN2AKSXG201 | VBN2AKPGX101 | VBN2AKSXG101 | VBN2AKPXH201 | VBN2AKSXH201 | VBN2AKPXH101 | VBN2AKSXH101 |
| 3/4" | 130 | 0.31 | VBN2BBPG201 | VBN2BBSXG201 | VBN2BBPGX101 | VBN2BBSXG101 | VBN2BBPXH201 | VBN2BBSXH201 | VBN2BBPXH101 | VBN2BBSXH101 |
| | | 0.63 | VBN2BDPG201 | VBN2BDSXG201 | VBN2BDPXG101 | VBN2BDSXG101 | VBN2BDPXH201 | VBN2BDSXH201 | VBN2BDPXH101 | VBN2BDSXH101 |
| | | 1.2 | VBN2BEPGX201 | VBN2BESXG201 | VBN2BEPXG101 | VBN2BESXG101 | VBN2BEPXH201 | VBN2BESXH201 | VBN2BEPXH101 | VBN2BESXH101 |
| | | 2.5 | VBN2BGPXG201 | VBN2BGSXG201 | VBN2BGPXG101 | VBN2BGSXG101 | VBN2BGPXH201 | VBN2BGSXH201 | VBN2BGPXH101 | VBN2BGSXH101 |
| | | 4.3 | VBN2BHPGX201 | VBN2BHSXG201 | VBN2BHPXG101 | VBN2BHSXG101 | VBN2BHPXH201 | VBN2BHSXH201 | VBN2BHPXH101 | VBN2BHSXH101 |
| | | 7.4 | VBN2BJPG201 | VBN2BJSXG201 | VBN2BJPXG101 | VBN2BJSXG101 | VBN2BJPXH201 | VBN2BJSXH201 | VBN2BJPXH101 | VBN2BJSXH101 |
| | | 10.1 | VBN2BKPG201 | VBN2BKSXG201 | VBN2BKPGX101 | VBN2BKSXG101 | VBN2BKPXH201 | VBN2BKSXH201 | VBN2BKPXH101 | VBN2BKSXH101 |
| | | 14.7* | VBN2BLPG201 | VBN2BLSXG201 | VBN2BLPXG101 | VBN2BLSXG101 | VBN2BLPXH201 | VBN2BLSXH201 | VBN2BLPXH101 | VBN2BLSXH101 |
| 1" | 100 | 29* | VBN2BMPXG201 | VBN2BMSXG201 | VBN2BMPXG101 | VBN2BMSXG101 | VBN2BMPXH201 | VBN2BMSXH201 | VBN2BMPXH101 | VBN2BMSXH101 |
| | | 4.4 | VBN2CHPG201 | VBN2CHSXG201 | VBN2CHPGX101 | VBN2CHSXG101 | VBN2CHPXH201 | VBN2CHSXH201 | VBN2CHPXH101 | VBN2CHSXH101 |
| | | 9 | VBN2CJPXG201 | VBN2CJSXG201 | VBN2CJPXG101 | VBN2CJSXG101 | VBN2CJPXH201 | VBN2CJSXH201 | VBN2CJPXH101 | VBN2CJSXH101 |
| | | 15.3 | VBN2CLPG201 | VBN2CLSXG201 | VBN2CLPXG101 | VBN2CLSXG101 | VBN2CLPXH201 | VBN2CLSXH201 | VBN2CLPXH101 | VBN2CLSXH101 |
| | | 26 | VBN2CMPXG201 | VBN2CMSXG201 | VBN2CMPXG101 | VBN2CMSXG101 | VBN2CMPXH201 | VBN2CMSXH201 | VBN2CMPXH101 | VBN2CMSXH101 |
| | | 44* | VBN2CNPGX201 | VBN2CNSXG201 | VBN2CNPGX101 | VBN2CNSXG101 | VBN2CNPXH201 | VBN2CNSXH201 | VBN2CNPXH101 | VBN2CNSXH101 |
| | | 54* | VBN2CPPXG201 | VBN2CPSXG201 | VBN2CPPXG101 | VBN2CPSXG101 | VBN2CPPXH201 | VBN2CPSXH201 | VBN2CPPXH101 | VBN2CPSXH101 |
| | | 4.4 | VBN2DHPXG201 | VBN2DHSXG201 | VBN2DHPXG101 | VBN2DHSXG101 | VBN2DHPXH201 | VBN2DHSXH201 | VBN2DHPXH101 | VBN2DHSXH101 |
| 1-1/4" | 100 | 8.3 | VBN2DJPGX201 | VBN2DJSXG201 | VBN2DJPXG101 | VBN2DJSXG101 | VBN2DJPXH201 | VBN2DJSXH201 | VBN2DJPXH101 | VBN2DJSXH101 |
| | | 14.9 | VBN2DKPGX201 | VBN2DKSXG201 | VBN2DKPGX101 | VBN2DKSXG101 | VBN2DKPXH201 | VBN2DKSXH201 | VBN2DKPXH101 | VBN2DKSXH101 |
| | | 25 | VBN2DLPXG201 | VBN2DLSXG201 | VBN2DLPXG101 | VBN2DLSXG101 | VBN2DLPXH201 | VBN2DLSXH201 | VBN2DLPXH101 | VBN2DLSXH101 |
| | | 37 | VBN2DMPXG201 | VBN2DMSXG201 | VBN2DMPXG101 | VBN2DMSXG101 | VBN2DMPXH201 | VBN2DMSXH201 | VBN2DMPXH101 | VBN2DMSXH101 |
| | | 41* | VBN2DNPGX201 | VBN2DNSXG201 | VBN2DNPGX101 | VBN2DNSXG101 | VBN2DNPXH201 | VBN2DNSXH201 | VBN2DNPXH101 | VBN2DNSXH101 |
| | | 102* | VBN2DSPXG201 | VBN2DSSXG201 | VBN2DSPXG101 | VBN2DSSXG101 | VBN2DSPXH201 | VBN2DSSXH201 | VBN2DSPXH101 | VBN2DSSXH101 |

* Full port ball. No flow characterizing insert.

PRODUCT SELECTION - VALVES

2-Way NPT Valves ½"- 1¼", NEMA 2

| Actuator Features | | | Fail Safe | | | | | | | |
|-------------------------------------|---------------------------|--------------------------------|---------------------|--------------|---------------------|--------------|---------------------|--------------|---------------------|--------------|
| Actuator O.S. Number | | | MS7103A2024 | | | | MS7103A2224 | | | |
| Power Supply | | Voltage | 24 VAC/DC | | | | 24 VAC/DC | | | |
| | | Frequency | 50 / 60 Hz | | | | 50 / 60 Hz | | | |
| Actuator Torque | | Power | 4 VA | | | | 4 VA | | | |
| Control | | (lb.-in.) | 27 | | | | 27 | | | |
| 4-20 mA (external 500 Ohm Resistor) | | (0)2-10 Vdc | • | | | | • | | | |
| | | Floating | • | | | | • | | | |
| | | Two-Position SPDT | • | | | | • | | | |
| | | Two-Position SPST | • | | | | • | | | |
| Actuator Stroke | | (degrees) | 95° ± 3° | | | | 95° ± 3° | | | |
| Timing | | (drive/spring return, seconds) | 90 / 25 | | | | 90 / 25 | | | |
| Aux Switch | | | 0 | | | | 2 | | | |
| Feedback | | 2-10 Vdc Built In | • | | | | • | | | |
| Fail Safe Action | | | Closed | | Open | | Closed | | Open | |
| Normal Position (no signal) | | | Closed | | Open | | Closed | | Open | |
| Valve Features | | Trim | Nickel-Plated Brass | Ss |
| Valve Size (inches) | Close-off Pressure (psid) | Cv | Short Order Codes | | | | | | | |
| 1/2" | 130 | 0.38 | VBN2ABPXE201 | VBN2ABSXE201 | VBN2ABPXE101 | VBN2ABSXE101 | VBN2ABPXF201 | VBN2ABSXF201 | VBN2ABPXF101 | VBN2ABSXF101 |
| | | 0.68 | VBN2ADPXE201 | VBN2ADSXE201 | VBN2ADPXE101 | VBN2ADSXE101 | VBN2ADPXF201 | VBN2ADSF201 | VBN2ADPXF101 | VBN2ADSF101 |
| | | 1.3 | VBN2AEPXE201 | VBN2AESXE201 | VBN2AEPXE101 | VBN2AESXE101 | VBN2AEPXF201 | VBN2AESXF201 | VBN2AEPEF101 | VBN2AESXF101 |
| | | 2 | VBN2AFPXE201 | VBN2AFSXE201 | VBN2AFPXE101 | VBN2AFSXE101 | VBN2AFPXF201 | VBN2AFSF201 | VBN2AFPXF101 | VBN2AFSF101 |
| | | 2.6 | VBN2AGPXE201 | VBN2AGSX201 | VBN2AGPXE101 | VBN2AGSX201 | VBN2AGPXF201 | VBN2AGSF201 | VBN2AGPXF101 | VBN2AGSF101 |
| | | 4.7 | VBN2AHPXE201 | VBN2AHSXE201 | VBN2AHPXE101 | VBN2AHSXE101 | VBN2AHPXF201 | VBN2AHSXF201 | VBN2AHPXF101 | VBN2AHSXF101 |
| | | 8 | VBN2AJPXE201 | VBN2AJSXE201 | VBN2AJPXE101 | VBN2AJSXE101 | VBN2AJPXF201 | VBN2AJSXF201 | VBN2AJPXF101 | VBN2AJSXF101 |
| | | 11.7* | VBN2AKPXE201 | VBN2AKSXE201 | VBN2AKPXE101 | VBN2AKSXE101 | VBN2AKPXF201 | VBN2AKSF201 | VBN2AKPXF101 | VBN2AKSF101 |
| 3/4" | 130 | 0.31 | VBN2BBPXE201 | VBN2BBSXE201 | VBN2BBPXE101 | VBN2BBSXE101 | VBN2BBPXF201 | VBN2BBSXF201 | VBN2BBPXF101 | VBN2BBSXF101 |
| | | 0.63 | VBN2BDPXE201 | VBN2BDSXE201 | VBN2BDPXE101 | VBN2BDSXE101 | VBN2BDPXF201 | VBN2BDSXF201 | VBN2BDPXF101 | VBN2BDSXF101 |
| | | 1.2 | VBN2BEPXE201 | VBN2BESXE201 | VBN2BEPXE101 | VBN2BESXE101 | VBN2BEPXF201 | VBN2BESXF201 | VBN2BEPXF101 | VBN2BESXF101 |
| | | 2.5 | VBN2BGPXE201 | VBN2BGSXE201 | VBN2BGPXE101 | VBN2BGSXE101 | VBN2BGPXF201 | VBN2BGSXF201 | VBN2BGPXF101 | VBN2BGSXF101 |
| | | 4.3 | VBN2BHPXE201 | VBN2BHSXE201 | VBN2BHPXE101 | VBN2BHSXE101 | VBN2BHPXF201 | VBN2BHSXF201 | VBN2BHPXF101 | VBN2BHSXF101 |
| | | 7.4 | VBN2BJPXE201 | VBN2BJSXE201 | VBN2BJPXE101 | VBN2BJSXE101 | VBN2BJPXF201 | VBN2BJSXF201 | VBN2BJPXF101 | VBN2BJSXF101 |
| | | 10.1 | VBN2BKPXE201 | VBN2BKSXE201 | VBN2BKPXE101 | VBN2BKSXE101 | VBN2BKPXF201 | VBN2BKSXF201 | VBN2BKPXF101 | VBN2BKSXF101 |
| | | 14.7* | VBN2BLPXE201 | VBN2BLSXE201 | VBN2BLPXE101 | VBN2BLSXE101 | VBN2BLPXF201 | VBN2BLSXF201 | VBN2BLPXF101 | VBN2BLSXF101 |
| 1" | 100 | 29* | VBN2BMPXE201 | VBN2BMSXE201 | VBN2BMPXE101 | VBN2BMSXE101 | VBN2BMPXF201 | VBN2BMSXF201 | VBN2BMPXF101 | VBN2BMSXF101 |
| | | 4.4 | VBN2CHPXE201 | VBN2CHSXE201 | VBN2CHPXE101 | VBN2CHSXE101 | VBN2CHPXF201 | VBN2CHSF201 | VBN2CHPXF101 | VBN2CHSF101 |
| | | 9 | VBN2CJPXE201 | VBN2CJSXE201 | VBN2CJPXE101 | VBN2CJSXE101 | VBN2CJPXF201 | VBN2CJSXF201 | VBN2CJPXF101 | VBN2CJSXF101 |
| | | 15.3 | VBN2CLPXE201 | VBN2CLSXE201 | VBN2CLPXE101 | VBN2CLSXE101 | VBN2CLPXF201 | VBN2CLSF201 | VBN2CLPXF101 | VBN2CLSF101 |
| | | 26 | VBN2CMPXE201 | VBN2CMSXE201 | VBN2CMPXE101 | VBN2CMSXE101 | VBN2CMPXF201 | VBN2CMSXF201 | VBN2CMPXF101 | VBN2CMSXF101 |
| | | 44* | VBN2CNPXE201 | VBN2CNSXE201 | VBN2CNPXE101 | VBN2CNSXE101 | VBN2CNPXF201 | VBN2CNSXF201 | VBN2CNPXF101 | VBN2CNSXF101 |
| 1-1/4" | 100 | 54* | VBN2CPPXE201 | VBN2CPSXE201 | VBN2CPPXE101 | VBN2CPSXE101 | VBN2CPPXF201 | VBN2CPSXF201 | VBN2CPPXF101 | VBN2CPSXF101 |
| | | 4.4 | VBN2DHPXE201 | VBN2DHSXE201 | VBN2DHPXE101 | VBN2DHSXE101 | VBN2DHPXF201 | VBN2DHSXF201 | VBN2DHPXF101 | VBN2DHSXF101 |
| | | 8.3 | VBN2DJPXE201 | VBN2DJSXE201 | VBN2DJPXE101 | VBN2DJSXE101 | VBN2DJPXF201 | VBN2DJSXF201 | VBN2DJPXF101 | VBN2DJSXF101 |
| | | 14.9 | VBN2DKPXE201 | VBN2DKSXE201 | VBN2DKPXE101 | VBN2DKSXE101 | VBN2DKPXF201 | VBN2DKSF201 | VBN2DKPXF101 | VBN2DKSF101 |
| | | 25 | VBN2DLPXE201 | VBN2DLSXE201 | VBN2DLPXE101 | VBN2DLSXE101 | VBN2DLPXF201 | VBN2DLSXF201 | VBN2DLPXF101 | VBN2DLSXF101 |
| | | 37 | VBN2DMPXE201 | VBN2DMSXE201 | VBN2DMPXE101 | VBN2DMSXE101 | VBN2DMPXF201 | VBN2DMSXF201 | VBN2DMPXF101 | VBN2DMSXF101 |
| | | 41* | VBN2DNPXE201 | VBN2DNSXE201 | VBN2DNPXE101 | VBN2DNSXE101 | VBN2DNPXF201 | VBN2DNSXF201 | VBN2DNPXF101 | VBN2DNSXF101 |
| | | 102* | VBN2DSPXE201 | VBN2DSSXE201 | VBN2DSPXE101 | VBN2DSSXE101 | VBN2DSPXF201 | VBN2DSSXF201 | VBN2DSPXF101 | VBN2DSSXF101 |

* Full port ball. No flow characterizing insert.

PRODUCT SELECTION - VALVES

2-Way NPT Valves 1½"- 3", NEMA 2

| Actuator Features | | | Fail Safe | | | | | | | |
|------------------------------------|---------------------------|-------------------------------------|---------------------|-----------------|---------------------|-----------------|---------------------|-----------------|---------------------|-----------------|
| Actuator O.S. Number | | | MS7505A2030 | | | | MS7505A2130 | | | |
| Power Supply | | Voltage | 24 VAC/DC | | | | 24 VAC/DC | | | |
| | | Frequency | 50 / 60 Hz | | | | 50 / 60 Hz | | | |
| | | Power | 6 VA | | | | 6 VA | | | |
| Actuator Torque | | (lb.-in.) | 44 | | | | 44 | | | |
| Control | | (0)2-10 Vdc | • | | | | • | | | |
| | | 4-20 mA (external 500 Ohm Resistor) | • | | | | • | | | |
| | | Floating | • | | | | • | | | |
| | | Two-Position SPDT | • | | | | • | | | |
| | | Two-Position SPST | • | | | | • | | | |
| Actuator Stroke | | (degrees) | 95° ± 3° | | | | 95° ± 3° | | | |
| Timing | | (drive/spring return, seconds) | 90 / 25 | | | | 90 / 25 | | | |
| Aux Switch | | | 0 | | | | 1 | | | |
| Feedback | | 2-10 Vdc Built In | • | | | | • | | | |
| Fail Safe Action | | | Closed | | Open | | Closed | | Open | |
| Normal Position (no signal) | | | Closed | | Open | | Closed | | Open | |
| Valve Features | | Trim | Nickel-Plated Brass | Stainless Steel |
| Valve Size (inches) | Close-off Pressure (psid) | Cv | Short Order Codes | | | | | | | |
| 1-1/2" | 100 | 23 | VBN2ELPX6200 | VBN2ELSX6200 | VBN2ELPX6100 | VBN2ELSX6100 | VBN2ELPXB200 | VBN2ELSBXB200 | VBN2ELPXB100 | VBN2ELSBXB100 |
| | | 30 | VBN2EMPX6200 | VBN2EMSX6200 | VBN2EMPX6100 | VBN2EMSX6100 | VBN2EMPXB200 | VBN2EMSXB200 | VBN2EMPXB100 | VBN2EMSXSB100 |
| | | 41 | VBN2ENPX6200 | VBN2ENSX6200 | VBN2ENPX6100 | VBN2ENSX6100 | VBN2ENPXB200 | VBN2ENSXB200 | VBN2ENPXB100 | VBN2ENSXB100 |
| | | 74* | VBN2ERPX6200 | VBN2ERSX6200 | VBN2ERPX6100 | VBN2ERSX6100 | VBN2ERPXB200 | VBN2ERSXB200 | VBN2ERPB100 | VBN2ERSXB100 |
| | | 172* | VBN2E1PX6200 | VBN2E1SX6200 | VBN2E1PX6100 | VBN2E1SX6100 | VBN2E1PXB200 | VBN2E1SXB200 | VBN2E1PXB100 | VBN2E1SXSB100 |
| 2" | 100 | 42 | VBN2FNPX6200 | VBN2FNSX6200 | VBN2FNPX6100 | VBN2FNSX6100 | VBN2FNPXB200 | VBN2FNSXB200 | VBN2FNPXB100 | VBN2FNSXB100 |
| | | 57 | VBN2FPPX6200 | VBN2FPSX6200 | VBN2FPPX6100 | VBN2FPSX6100 | VBN2FPPXB200 | VBN2FPSXB200 | VBN2FPPXB100 | VBN2FPSXB100 |
| | | 71 | VBN2FRPX6200 | VBN2FRSX6200 | VBN2FRPX6100 | VBN2FRSX6100 | VBN2FRPXB200 | VBN2FRSXBX200 | VBN2FRPB100 | VBN2FRSXSB100 |
| | | 100 | VBN2FSPX6200 | VBN2FSSX6200 | VBN2FSPX6100 | VBN2FSSX6100 | VBN2FSPXB200 | VBN2FSSXB200 | VBN2FSPXB100 | VBN2FSSXB100 |
| | | 108* | VBN2FTPX6200 | VBN2FTSX6200 | VBN2FTPX6100 | VBN2FTSX6100 | VBN2FTPXB200 | VBN2FTSXBX200 | VBN2FTPXB100 | VBN2FTSXSB100 |
| | | 210 | VBN2F1PX6200 | VBN2F1SX6200 | VBN2F1PX6100 | VBN2F1SX6100 | VBN2F1PXB200 | VBN2F1SXB200 | VBN2F1PXB100 | VBN2F1SXSB100 |
| | | 266* | VBN2F2PX6200 | VBN2F2SX6200 | VBN2F2PX6100 | VBN2F2SX6100 | VBN2F2PXB200 | VBN2F2SXB200 | VBN2F2PXB100 | VBN2F2SXSB100 |
| 2-1/2" | 100 | 45 | VBN2GNPX6200 | VBN2GNSX6200 | VBN2GNPX6100 | VBN2GNSX6100 | VBN2GNPXB200 | VBN2GNSXB200 | VBN2GNPXB100 | VBN2GNSXB100 |
| | | 55 | VBN2GPPX6200 | VBN2GPSX6200 | VBN2GPPX6100 | VBN2GPSX6100 | VBN2GPPXB200 | VBN2GPSXB200 | VBN2GPPXB100 | VBN2GPSXB100 |
| | | 72 | VBN2GRPX6200 | VBN2GRSX6200 | VBN2GRPX6100 | VBN2GRSX6100 | VBN2GRPXB200 | VBN2GRSXBX200 | VBN2GRPB100 | VBN2GRSXSB100 |
| | | 101 | VBN2GSPX6200 | VBN2GSSX6200 | VBN2GSPX6100 | VBN2GSSX6100 | VBN2GSPXB200 | VBN2GSSXB200 | VBN2GSPXB100 | VBN2GSSXB100 |
| | | 162 | VBN2GUPX6200 | VBN2GUSX6200 | VBN2GUPX6100 | VBN2GUSX6100 | VBN2GUPXB200 | VBN2GUSXB200 | VBN2GUPXB100 | VBN2GUSXB100 |
| | | 202* | VBN2G1PX6200 | VBN2G1SX6200 | VBN2G1PX6100 | VBN2G1SX6100 | VBN2G1PXB200 | VBN2G1SXB200 | VBN2G1PXB100 | VBN2G1SXSB100 |
| 3 | 100 | 49 | VBN2HNPX6200 | VBN2HNSX6200 | VBN2HNPX6100 | VBN2HNSX6100 | VBN2HNPXB200 | VBN2HNSXB200 | VBN2HNPXBX100 | VBN2HNSXB100 |
| | | 63 | VBN2HPPX6200 | VBN2HPSX6200 | VBN2HPPX6100 | VBN2HPSX6100 | VBN2HPPXB200 | VBN2HPSXB200 | VBN2HPPXB100 | VBN2HPSXB100 |
| | | 82 | VBN2HRPX6200 | VBN2HRSX6200 | VBN2HRPX6100 | VBN2HRSX6100 | VBN2HRPXB200 | VBN2HRSXB200 | VBN2HRPXB100 | VBN2HRSXB100 |
| | | 124 | VBN2HTPX6200 | VBN2HTSX6200 | VBN2HTPX6100 | VBN2HTSX6100 | VBN2HTPXB200 | VBN2HTSXBX200 | VBN2HTPXBX100 | VBN2HTSX100 |
| | | 145* | VBN2HUPX6200 | VBN2HUSX6200 | VBN2HUPX6100 | VBN2HUSX6100 | VBN2HUPXB200 | VBN2HUSXB200 | VBN2HUPXB100 | VBN2HUSXB100 |

* Full port ball. No flow characterizing insert.

PRODUCT SELECTION - VALVES

3-Way NPT Control Ball Valves 1½"-2½", NEMA2

| Actuator Features | | | Fail Safe | | | |
|-----------------------------|-------------------------------------|-----------------|-------------------|---------------------|---------------------|---------------------|
| Actuator O.S. Number | | | MS7505A2030 | | | |
| Power Supply | Voltage | 24 VAC/DC | 24 VAC/DC | 24 VAC/DC | 24 VAC/DC | 24 VAC/DC |
| | Frequency | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz |
| | Power | 6 VA | 6 VA | 6 VA | 6 VA | 6 VA |
| Actuator Torque | (lb.-in.) | 44 | 44 | 44 | 44 | 44 |
| Control | (0)2-10 Vdc | • | • | • | • | • |
| | 4-20 mA (external 500 Ohm Resistor) | • | • | • | • | • |
| | Floating | • | • | • | • | • |
| | Two-Position SPDT | • | • | • | • | • |
| | Two-Position SPST | • | • | • | • | • |
| Actuator Stroke | (degrees) | 95° ± 3° | 95° ± 3° | 95° ± 3° | 95° ± 3° | 95° ± 3° |
| Timing | (drive/spring return, seconds) | 90 / 25 | 90 / 25 | 90 / 25 | 90 / 25 | 90 / 25 |
| Aux Switch | | 0 | 0 | 1 | 1 | 1 |
| Feedback | 2-10 Vdc Built In | • | • | • | • | • |
| Fail Safe Action | | B-AB Open (FSB) | A-AB Open (FSA) | B-AB Open (FSB) | A-AB Open (FSA) | A-AB Open |
| Normal Position (no signal) | | B-AB Open | A-AB Open | B-AB Open | A-AB Open | A-AB Open |
| Valve Features | | | Trim | Nickel-Plated Brass | Nickel-Plated Brass | Nickel-Plated Brass |
| Valve Size (inches) | Close-off Pressure (psid) | Cv | Short Order Codes | | | |
| 1-1/2" | 40 | 4 | VBN3EHPX6400 | VBN3EHPX6300 | VBN3EHPXB400 | VBN3EHPXB300 |
| | | 8.3 | VBN3EJPX6400 | VBN3EJPX6300 | VBN3EJPXB400 | VBN3EJPXB300 |
| | | 13.4 | VBN3EKPX6400 | VBN3EKPX6300 | VBN3EKPB400 | VBN3EKPB300 |
| | | 24 | VBN3ELPX6400 | VBN3ELPX6300 | VBN3ELPB400 | VBN3ELPB300 |
| | | 32* | VBN3EMPX6400 | VBN3EMPX6300 | VBN3EMPXB400 | VBN3EMPXB300 |
| | | 61* | VBN3EPPX6400 | VBN3EPPX6300 | VBN3EPXB400 | VBN3EPXB300 |
| 2" | 40 | 24 | VBN3FLPX6400 | VBN3FLPX6300 | VBN3FLPB400 | VBN3FLPB300 |
| | | 38 | VBN3FNPX6400 | VBN3FNPX6300 | VBN3FPXB400 | VBN3FPXB300 |
| | | 57* | VBN3FPPX6400 | VBN3FPPX6300 | VBN3FPPXB400 | VBN3FPPXB300 |
| | | 83 | VBN3FRPX6400 | VBN3FRPX6300 | VBN3FRPB400 | VBN3FRPB300 |
| | | 109* | VBN3FTPX6400 | VBN3FTPX6300 | VBN3FTPXB400 | VBN3FTPXB300 |
| 2-1/2" | 40 | 38 | VBN3GNPX6400 | VBN3GNPX6300 | VBN3GNPB400 | VBN3GNPB300 |
| | | 74 | VBN3GRPX6400 | VBN3GRPX6300 | VBN3GRPB400 | VBN3GRPB300 |
| | | 100* | VBN3GSPX6400 | VBN3GSPX6300 | VBN3GPXB400 | VBN3GPXB300 |

* Full port ball. No flow characterizing insert.

PRODUCT SELECTION - VALVES

Flanged Control Ball Valves 2½"- 6"



**5-YEAR
LIMITED
WARRANTY**

| Actuator Features | | Non Fail Safe | | | | | | | |
|---|-------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------|---------------|
| Actuator O.S. Number | | MN7505A2001 MN7505A2209 | MN6105A1011 MN6105A1201 | MN7510A2001 MN7510A2209 | MN6110A1003 MN6110A1201 | MN7220A2007 MN7220A2205 | MN6120A1002 MN6120A1200 | MN7234A2008 | MN6134A1003 |
| Power Supply | Voltage | 24 Vac | 24 Vac | 24 Vac |
| | Frequency | 50/60 Hz | 50/60 Hz | 50/60 Hz |
| | Power | 5 VA | 5 VA | 5 VA | 5 VA | 6 VA | 6 VA | 9 VA | 9 VA |
| Actuator Torque | (lb.-in.) | 44 | 44 | 88 | 88 | 175 | 175 | 300 | 300 |
| Control | (0)2-10 Vdc | • | • | • | • | • | • | • | • |
| | 4-20 mA (external 500 Ohm Resistor) | • | • | • | • | • | • | • | • |
| | Floating | • | • | • | • | • | • | • | • |
| | Two-Position SPDT | • | • | • | • | • | • | • | • |
| | Two-Position SPST | • | • | • | • | • | • | • | • |
| Fail Safe Action | | Stay in place | | | | | | | |
| Normal Position (no signal) (field configurable) | | Open or Closed | Stay in Place | Open or Closed | Stay in Place | Open or Closed | Stay in Place | Open or Closed | Stay in Place |
| Actuator Stroke (degrees) | | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 |
| Timing (seconds) | | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 |
| Aux Switch | | SPDT Built In | 0 / 2 | 0 / 2 | 0 / 2 | 0 / 2 | 0 / 2 | 0 / 2 | 0 / 2 |
| | | 2 x SPDT Add-On | | | | | | | |
| Feedback | | (0)2-10 Vdc Built In | • | • | • | • | • | • | • |

| Valve Size (inches) | Cv | Valve Type | Max Static Water Pressure | Valve Trim | Valve OS Number | Close-off Pressure, psid | | | | |
|---------------------|-----|-------------------|---------------------------|-----------------|-----------------|--------------------------|-----|----|-----|----|
| 2-1/2" | 63 | On/Off, Mod | 360 psi @ 250°F | Stainless Steel | VBF5011A1734 | 100 | 100 | | | |
| 3" | 100 | On/Off, Mod | 360 psi @ 250°F | Stainless Steel | VBF5011A1767 | 100 | 100 | | | |
| 4" | 160 | On/Off, Mod | 240 psig @ 250°F | Stainless Steel | VBF5011A1858 | | | 70 | 70 | 70 |
| 5" | 250 | On/Off, Mod | 240 psig @ 250°F | Stainless Steel | VBF5011A1882 | | | 70 | 70 | 70 |
| 6" | 360 | On/Off, Mod | 240 psig @ 250°F | Stainless Steel | VBF5011A1916 | | | | 70* | 70 |
| 2-1/2" | 63 | Mixing, Diverting | 360 psi @ 250°F | Brass | VBF5013B1003 | 40 | 40 | | | |
| 3" | 100 | Mixing, Diverting | 360 psi @ 250°F | Stainless Steel | VBF5013B1011 | | | 70 | 70 | 70 |
| 4" | 160 | Mixing, Diverting | 240 psig @ 250°F | Stainless Steel | VBF5013B1029 | | | 70 | 70 | 70 |
| 5" | 250 | Mixing, Diverting | 240 psig @ 250°F | Stainless Steel | VBF5013B1037 | | | 70 | 70 | 70 |
| 6" | 360 | Mixing, Diverting | 240 psig @ 250°F | Stainless Steel | VBF5013B1045 | | | | 70* | 70 |

* 2-position only

2-Way
3-Way

PRODUCT SELECTION - VALVES

Flanged Control Ball Valves 2½" - 6"



**5-YEAR
LIMITED
WARRANTY**

| Actuator Features | | Fail Safe | | | | | | | | | |
|--|-------------------------------------|--------------------------|----------------------------|----------------------------|---|----------------------------|----------------------------|---|----------------------------|----------------------------|--------|
| Actuator O.S. Number | | MS750A2030 MS750A2130 | MS8105A1030 MS8105A1130 | MS4105A1030 MS4105A1130 | MS7510A2008 MS7510A2206 MS7510H2209 | MS8110A1008 MS8110A1206 | MS4110A1002 MS4110A1200 | MS7520A2007 MS7520A2205 MS7520H2208 | MS8120A1007 MS8120A1205 | MS4120A1001 MS4120A1209 | |
| Power Supply | Voltage | 24 Vac | 24 Vac | 100-250 Vac | 24 Vac | 24 Vac | 100-250 Vac | 24 Vac | 24 Vac | 100-250 Vac | |
| | Frequency | 50/60 Hz | 50/60 Hz | 60 Hz | 50/60 Hz | 50/60 Hz | 60 Hz | 50/60 Hz | 50/60 Hz | 60 Hz | |
| | Power | 7.5 VA | 8 VA | 11 VA | 14 VA | 30 VA | 45 VA | 16 VA | 40 VA | 60 VA | |
| Actuator Torque | (lb.-in.) | 44 | 44 | 44 | 88 | 88 | 88 | 175 | 175 | 175 | |
| Control | (0)2-10 Vdc | • | | | • | | | • | | | |
| | 4-20 mA (external 500 Ohm Resistor) | • | | | • | | | • | | | |
| | Floating | • | | | • | | | • | | | |
| | Two-Position SPDT | • | | | • | | | • | | | |
| | Two-Position SPST | • | • | • | • | • | • | • | • | • | |
| Fail Safe Action | | Configurable Open/Closed | | | | | | | | | |
| Normal Position (no signal) (field configurable) | | Open or Closed | | | | | | | | | |
| Actuator Stroke | (degrees) | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 |
| Timing | (seconds) | 90 | 45 | 45 | 90 | 45 | 45 | 90 | 45 | 90 | 45 |
| Aux Switch | SPDT Built In | 0 / 1 | 0 / 1 | 0 / 1 | 0 / 2 / 2 | 0 / 2 | 0 / 2 | 0 / 2 / 2 | 0 / 2 | 0 / 2 | 0 / 2 |
| | 2 x SPDT Add-On | | | | SW2-US | SW2-US | SW2-US | SW2-US | SW2-US | SW2-US | SW2-US |
| Feedback | (0)2-10 Vdc Built In | • | | | • | | | • | | | |

| Valve Size (inches) | Cv | Valve Type | Max Static Water Pressure | Valve Trim | Valve OS Number | Close-off Pressure, psid | | | | | |
|---------------------|-----|-------------------|---------------------------|-----------------|-----------------|--------------------------|-----|-----|-----|----|----|
| 2-1/2" | 63 | On/Off, Mod | 360 psi @ 250°F | Stainless Steel | VBF5011A1734 | 100 | 100 | 100 | | | |
| 3" | 100 | On/Off, Mod | 360 psi @ 250°F | Stainless Steel | VBF5011A1767 | 100 | 100 | 100 | | | |
| 4" | 160 | On/Off, Mod | 240 psig @ 250°F | Stainless Steel | VBF5011A1858 | | | 70 | 70 | 70 | 70 |
| 5" | 250 | On/Off, Mod | 240 psig @ 250°F | Stainless Steel | VBF5011A1882 | | | 70 | 70 | 70 | 70 |
| 6" | 360 | On/Off, Mod | 240 psig @ 250°F | Stainless Steel | VBF5011A1916 | | | | 70* | 70 | 70 |
| 2-1/2" | 63 | Mixing, Diverting | 360 psi @ 250°F | Brass | VBF5013B1003 | 40 | 40 | 40 | | | |
| 3" | 100 | Mixing, Diverting | 360 psi @ 250°F | Stainless Steel | VBF5013B1011 | | | 70 | 70 | 70 | 70 |
| 4" | 160 | Mixing, Diverting | 240 psig @ 250°F | Stainless Steel | VBF5013B1029 | | | 70 | 70 | 70 | 70 |
| 5" | 250 | Mixing, Diverting | 240 psig @ 250°F | Stainless Steel | VBF5013B1037 | | | 70 | 70 | 70 | 70 |
| 6" | 360 | Mixing, Diverting | 240 psig @ 250°F | Stainless Steel | VBF5013B1045 | | | | 70* | 70 | 70 |

* 2-position only

2-Way
3-Way

NOTES

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Specification Take-Off Service

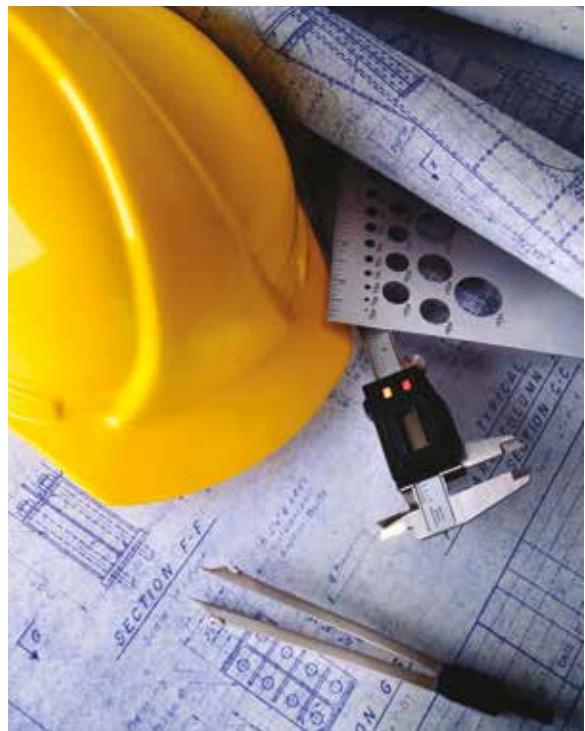
The Honeywell Take-Off Service Can Create Product Schedules From:

- Product specifications
- Existing schedules
- Drawings
- Obsolete or competitive schedules

Products Supported by the Take-Off Service

- Commercial Water and Steam Valves
- Valve Actuators (Electric or Pneumatic)
- Commercial Control Dampers
- Custom Dampers
- Damper Actuators (Electric or Pneumatic)
- Variable Frequency Drives

Our goal is to help provide you with the best possible solution for each job.



Participate in the Specification Take-Off Service

1. Submit your information by email to takeoff.service@honeywell.com
2. Include your desired turn-around time.
3. Take-Off Service staff will send you a confirmation that your email was received. We always attempt to have your request finished as soon as possible. Please note, however, that the quality of the submitted information largely determines the turn-around time. We will work closely with you to ensure that we have enough information to move forward as quickly as possible.
4. A final product schedule document will be returned to you following take-off completion.

Included in the Final Take-Off Document

We send a comprehensive spreadsheet, which contains:

- A complete product schedule
- Base price
- Directions on how to order Honeywell products
- Links to product submittals
- Quote identification number

Questions?

If you have questions about the Honeywell Take-Off Service, please email us at: takeoff.service@honeywell.com

Configure, Price, Quote: CPQ Select

Configure, price, and quote Honeywell Field Devices from a single, easy-to-use tool.

Easy to Use CPQ Features

- Quickly find and select the right product for your application
- Compare specifications across different products
- View and download technical literature
- Configure and tag valve assemblies
- Create quotations and save automatically to the cloud for future projects
- Export simple quotations or include full submittal documentation

Honeywell Commercial Products Include

- Actuators – Direct Coupled Actuators (DCA) and Foot Mounted
- Control Dampers
- Control Valves & Actuators
- Economizer Controllers
- Pneumatics
- Sensors
- Submeters
- Standalone Controllers
- Thermostats
- Variable Frequency Drives (VFDs)

Product Selection and Quoting Made Easy



Configure



Price



Quote

WWW.CPQ.HONEYWELL.COM

Contact Information and Websites

Main Customer Web Site

customer.honeywell.com

Commercial Components Technical Hotline

888-516-9347

BuildingsProductSupport@Honeywell.com

Literature Ordering

literature.honeywell.com

Honeywell Promotional Materials

honeywellpromotionalproducts.com/catalog/default.aspx

Global Field Devices Application and Selection Guide

#63-9271 at literature.honeywell.com

Specification Take-Off Service

takeoff.service@honeywell.com

For More Information

buildingcontrols.honeywell.com

Honeywell Building Technologies

1985 Douglas Drive North

Golden Valley, MN 55422-3992

www.honeywell.com