



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				
ATTRIBUTE	SPECIFICATION		NPT THREAD	ANSI FLANGE
Valve Size	(Inch)	(DN)	VBN2	VBF2
	0.5	15	•	
	0.75	20	•	
	1	25	•	
	1.25	32	•	
	1.5	40	•	
	2	50	•	
	2.5	65	•	
	3	80	•	
	4	100		•
	5	125		•
	6	150		•
Static Pressure	Class 125 (240 psi)			•
	360 psi		•	
Close-Off Pressure *	100 psi (min)		•	
	70 psi (min)			•
Media	Chilled Water (50% glycol max)		•	•
	Hot Water (50% glycol max)		•	•
Medium	Min -22 ° F / Max 250 ° F		•	•
Flow Characteristic	Equal Percentage		•	•
	Linear (full port valves)		•	
Maximum	ANSI Class IV (0.01% of Cv max)		•	•
Rangeability	50:1 min ***		•	•
Trim	Nickel plated brass		•	
	Stainless steel		•	•
In-line Serviceability	Stem replacement kit		•	•
Actuator Options	Modulating 2-10 Vdc		•	•
	Sylk		• ****	
	24 Vac Floating		•	•
	24 Vac 2-position		•	•
	Fail-Safe (FO/FC)		•	•
Accessories	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

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

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

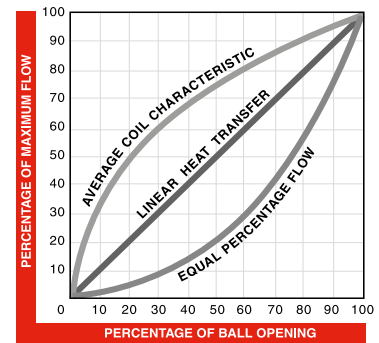
** On MVN actuators only. Available separately or factory installed. Standard on Diamond actuators.

*** 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

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										
	Convectors	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			
	Chilled Ceiling	Threaded control ball valves										
Central Plant	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.

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.

5-YEAR

**LIMITED
WARRANTY**

Valve Specification		Valve Profile	Standard Profile		Low Profile		Black Bracket	
		Valve Trim	Plated Brass	Stainless Steel	Plated Brass	Stainless Steel	Plated Brass	Stainless Steel
Valve Size (inches)	Close-off (psi)	Cv	Valve Body Model Number					
2-Way			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	
		VBN2C009.00PA	VBN2C009.00SA	VBN2C009.00PL	VBN2C009.00SL	VBN2C009.00PX	VBN2C009.00SX	
		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	
						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.	24 VAC/DC*	NEMA 2	+MVN613A0000	+MVN613L0000	+MN6105A1011 or +MN6105A1201
Fast SPDT	30 sec.			+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.

2-Way

Valve Specification		Valve Profile	Black Bracket			
		Valve Trim	Plated Brass	Stainless Steel	Plated Brass	Stainless Steel
Valve Size (inches)	Close-off (psi)	Cv	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
		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
1"	100	29	VBN2B029.00PX	VBN2B029.00SX	VBN2B029.00PX	VBN2B029.00SX
		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
		4.4	VBN2D004.40PX	VBN2D004.40SX	VBN2D004.40PX	VBN2D004.40SX
1-1/4"	100	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
		23			VBN2E023.00PX	VBN2E023.00SX
		30			VBN2E030.00PX	VBN2E030.00SX
1-1/2"	100	41			VBN2E041.00PX	VBN2E041.00SX
		74			VBN2E074.00PX	VBN2E074.00SX
		172			VBN2E172.00PX	VBN2E172.00SX
		42			VBN2F042.00PX	VBN2F042.00SX
2"	100	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			VBN2F266.00PX	VBN2F266.00SX
		45			VBN2G045.00PX	VBN2G045.00SX
		55			VBN2G055.00PX	VBN2G055.00SX
2-1/2"	100	72			VBN2G072.00PX	VBN2G072.00SX
		101			VBN2G101.00PX	VBN2G101.00SX
		162			VBN2G162.00PX	VBN2G162.00SX
		202			VBN2G202.00PX	VBN2G202.00SX
		49			VBN2H049.00PX	VBN2H049.00SX
		63			VBN2H063.00PX	VBN2H063.00SX
3"	100	82			VBN2H082.00PX	VBN2H082.00SX
		124			VBN2H124.00PX	VBN2H124.00SX
		145			VBN2H145.00PX	VBN2H145.00SX

Actuator Features

				DCA or DCA w/ switches		DCA or DCA w/ switches		
Control Signal	Timing	Voltage	Enclosure	Actuator Model Number				
Modulating	90 sec.	24 VAC/DC	NEMA 2	+MS7103A2024 or +MS7103A2224		+MS7505A2030 or +MS7505A2130		
Sylk	30-180 sec.			+MS3103J1023 or +MS3103J1223				
2-position	45 sec.	120 VAC				+MS8105A1030 or +MS8105A1130		
2-position	45 sec.					+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

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.

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.

**5-YEAR
LIMITED
WARRANTY**

3-Way

Valve Specification		Valve Profile	Standard Profile	Low Profile	Black Bracket
		Valve Trim	Plated Brass	Stainless Steel	Plated Brass
Valve Size (inches)	Close-off (psi)	Cv	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
		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
1-1/4"	40	31	VBN3C031.00PA	VBN3C031.00PL	VBN3C031.00PX
		4.1	VBN3D004.10PA	VBN3D004.10PL	VBN3D004.10PX
		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
1-1/2"	40	34	VBN3D034.00PA	VBN3D034.00PL	VBN3D034.00PX
		4	N/A	N/A	VBN3E004.00PX
		8.3			VBN3E008.30PX
		13.4			VBN3E013.40PX
		24			VBN3E024.00PX
		32			VBN3E032.00PX
2"	40	61			VBN3E061.00PX
		24			VBN3F024.00PX
		38			VBN3F038.00PX
		57			VBN3F057.00PX
		83			VBN3F083.00PX
		109			VBN3F109.00PX
2-1/2"	40	38			VBN3G038.00PX
		74			VBN3G074.00PX
		100			VBN3G100.00PX

Actuator Features

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

*MVN613 24 VAC only

PRODUCT SELECTION - VALVES

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



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.

3-Way

Valve Specification		Valve Profile	Black Bracket	
		Valve Trim	Plated Brass	Plated Brass
Valve Size (inches)	Close-off (psi)	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
		4.5	VBN3C004.50PX	VBN3C004.50PX
		8.6	VBN3C008.60PX	VBN3C008.60PX
		14.9	VBN3C014.90PX	VBN3C014.90PX
		22	VBN3C022.00PX	VBN3C022.00PX
1-1/4"	40	31	VBN3C031.00PX	VBN3C031.00PX
		4.1	VBN3D004.10PX	VBN3D004.10PX
		8.7	VBN3D008.70PX	VBN3D008.70PX
		12.7	VBN3D012.70PX	VBN3D012.70PX
		19.4	VBN3D019.40PX	VBN3D019.40PX
		27	VBN3D027.00PX	VBN3D027.00PX
1-1/2"	40	34	VBN3D034.00PX	VBN3D034.00PX
		4		VBN3E004.00PX
		8.3		VBN3E008.30PX
		13.4		VBN3E013.40PX
		24		VBN3E024.00PX
		32		VBN3E032.00PX
2"	40	61		VBN3E061.00PX
		24		VBN3F024.00PX
		38		VBN3F038.00PX
		57		VBN3F057.00PX
		83		VBN3F083.00PX
		109		VBN3F109.00PX
2-1/2"	40	38		VBN3G038.00PX
		74		VBN3G074.00PX
		100		VBN3G100.00PX

Actuator Features

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

Valve Size (inches)	Close-off Pressure (psid)	Cv	Short Order Codes					
			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	VBN2AESa1000	VBN2AEPa1001	VBN2AESa1001	VBN2AEPa0000	VBN2AESa0000
		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
		11.7*	VBN2AKPA1000	VBN2AKSA1000	VBN2AKPA1001	VBN2AKSA1001	VBN2AKPA0000	VBN2AKSA0000
3/4"	130	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	VBN2BHSa1000	VBN2BHPa1001	VBN2BHSa1001	VBN2BHPa0000	VBN2BHSa0000
		7.4	VBN2BJPA1000	VBN2BJSa1000	VBN2BJPA1001	VBN2BJSa1001	VBN2BJPA0000	VBN2BJSa0000
		10.1	VBN2BKPA1000	VBN2BKSA1000	VBN2BKPA1001	VBN2BKSA1001	VBN2BKPA0000	VBN2BKSA0000
		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	VBN2DJSa1000	VBN2DJPA1001	VBN2DJSa1001	VBN2DJPA0000	VBN2DJSa0000
		14.9	VBN2DKPA1000	VBN2DKSA1000	VBN2DKPA1001	VBN2DKSA1001	VBN2DKPA0000	VBN2DKSA0000
		25	VBN2DLPA1000	VBN2DLSa1000	VBN2DLPA1001	VBN2DLSa1001	VBN2DLPA0000	VBN2DLSa0000
		37	VBN2DMPa1000	VBN2DMSa1000	VBN2DMPa1001	VBN2DMSa1001	VBN2DMPa0000	VBN2DMSa0000
		41*	VBN2DNPA1000	VBN2DNSa1000	VBN2DNPA1001	VBN2DNSa1001	VBN2DNPA0000	VBN2DNSa0000
		102*	VBN2DSPA1000	VBN2DSSa1000	VBN2DSPA1001	VBN2DSSa1001	VBN2DSPA0000	VBN2DSSa0000

* Full port ball. No flow characterizing insert.



2-Way

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		
		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	Nickel-Plated Brass	Stainless Steel	Nickel-Plated Brass	Stainless Steel	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	VBN2ABPA2000	VBN2ABSA2000	VBN2ABPA2001	VBN2ABSA2001	VBN2ABPA3000	VBN2ABSA3000	VBN2ABPA3001	VBN2ABSA3001	
		0.68	VBN2ADPA2000	VBN2ADSA2000	VBN2ADPA2001	VBN2ADSA2001	VBN2ADPA3000	VBN2ADSA3000	VBN2ADPA3001	VBN2ADSA3001	
		1.3	VBN2AEPa2000	VBN2AESA2000	VBN2AEPa2001	VBN2AESA2001	VBN2AEPa3000	VBN2AESA3000	VBN2AEPa3001	VBN2AESA3001	
		2	VBN2AFPA2000	VBN2AFSA2000	VBN2AFPA2001	VBN2AFSA2001	VBN2AFPA3000	VBN2AFSA3000	VBN2AFPA3001	VBN2AFSA3001	
		2.6	VBN2AGPA2000	VBN2AGSA2000	VBN2AGPA2001	VBN2AGSA2001	VBN2AGPA3000	VBN2AGSA3000	VBN2AGPA3001	VBN2AGSA3001	
		4.7	VBN2AHPa2000	VBN2AHPa2000	VBN2AHPa2001	VBN2AHPa2001	VBN2AHPa3000	VBN2AHPa3000	VBN2AHPa3001	VBN2AHPa3001	
		8	VBN2AJPA2000	VBN2AJSA2000	VBN2AJPA2001	VBN2AJSA2001	VBN2AJPA3000	VBN2AJSA3000	VBN2AJPA3001	VBN2AJSA3001	
		11.7*	VBN2AKPA2000	VBN2AKSA2000	VBN2AKPA2001	VBN2AKSA2001	VBN2AKPA3000	VBN2AKSA3000	VBN2AKPA3001	VBN2AKSA3001	
3/4"	130	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	VBN2BHSA2000	VBN2BHPa2001	VBN2BHSA2001	VBN2BHPa3000	VBN2BHSA3000	VBN2BHPa3001	VBN2BHSA3001	
		7.4	VBN2BJPA2000	VBN2BJSa2000	VBN2BJPA2001	VBN2BJSa2001	VBN2BJPA3000	VBN2BJSa3000	VBN2BJPA3001	VBN2BJSa3001	
		10.1	VBN2BKPA2000	VBN2BKSA2000	VBN2BKPA2001	VBN2BKSA2001	VBN2BKPA3000	VBN2BKSA3000	VBN2BKPA3001	VBN2BKSA3001	
		14.7*	VBN2BLPA2000	VBN2BLSa2000	VBN2BLPA2001	VBN2BLSa2001	VBN2BLPA3000	VBN2BLSa3000	VBN2BLPA3001	VBN2BLSa3001	
1"	100	29*	VBN2BMPa2000	VBN2BMSa2000	VBN2BMPa2001	VBN2BMSa2001	VBN2BMPa3000	VBN2BMSa3000	VBN2BMPa3001	VBN2BMSa3001	
		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	
		26	VBN2CMPa2000	VBN2CMSa2000	VBN2CMPa2001	VBN2CMSa2001	VBN2CMPa3000	VBN2CMSa3000	VBN2CMPa3001	VBN2CMSa3001	
		44*	VBN2CNPA2000	VBN2CNSa2000	VBN2CNPA2001	VBN2CNSa2001	VBN2CNPA3000	VBN2CNSa3000	VBN2CNPA3001	VBN2CNSa3001	
1-1/4"	100	54*	VBN2CPPa2000	VBN2CPSa2000	VBN2CPPa2001	VBN2CPSa2001	VBN2CPPa3000	VBN2CPSa3000	VBN2CPPa3001	VBN2CPSa3001	
		4.4	VBN2DHPa2000	VBN2DHSA2000	VBN2DHPa2001	VBN2DHSA2001	VBN2DHPa3000	VBN2DHSA3000	VBN2DHPa3001	VBN2DHSA3001	
		8.3	VBN2DJPA2000	VBN2DJSa2000	VBN2DJPA2001	VBN2DJSa2001	VBN2DJPA3000	VBN2DJSa3000	VBN2DJPA3001	VBN2DJSa3001	
		14.9	VBN2DKPA2000	VBN2DKSA2000	VBN2DKPA2001	VBN2DKSA2001	VBN2DKPA3000	VBN2DKSA3000	VBN2DKPA3001	VBN2DKSA3001	
		25	VBN2DLPA2000	VBN2DLSa2000	VBN2DLPA2001	VBN2DLSa2001	VBN2DLPA3000	VBN2DLSa3000	VBN2DLPA3001	VBN2DLSa3001	
		37	VBN2DMPa2000	VBN2DMSa2000	VBN2DMPa2001	VBN2DMSa2001	VBN2DMPa3000	VBN2DMSa3000	VBN2DMPa3001	VBN2DMSa3001	
		41*	VBN2DNPA2000	VBN2DNSa2000	VBN2DNPA2001	VBN2DNSa2001	VBN2DNPA3000	VBN2DNSa3000	VBN2DNPA3001	VBN2DNSa3001	
	102*	VBN2DSPA2000	VBN2DSSa2000	VBN2DSPA2001	VBN2DSSa2001	VBN2DSPA3000	VBN2DSSa3000	VBN2DSPA3001	VBN2DSSa3001		

* 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				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	Stainless Steel

Valve Size (inches)	Close-off Pressure (psid)	Cv	Short Order Codes					
			No Cable		1 Meter Cable		Valve Only	
1/2"	130	0.38	VBN2ABPL1000	VBN2ABSL1000	VBN2ABPL1001	VBN2ABSL1001	VBN2ABPL0000	VBN2ABSL0000
		0.68	VBN2ADPL1000	VBN2ADSL1000	VBN2ADPL1001	VBN2ADSL1001	VBN2ADPL0000	VBN2ADSL0000
		1.3	VBN2AEPL1000	VBN2AESL1000	VBN2AEPL1001	VBN2AESL1001	VBN2AEPL0000	VBN2AESL0000
		2	VBN2AFPL1000	VBN2AFSL1000	VBN2AFPL1001	VBN2AFSL1001	VBN2AFPL0000	VBN2AFSL0000
		2.6	VBN2AGPL1000	VBN2AGSL1000	VBN2AGPL1001	VBN2AGSL1001	VBN2AGPL0000	VBN2AGSL0000
		4.7	VBN2AHPL1000	VBN2AHS�1000	VBN2AHPL1001	VBN2AHS�1001	VBN2AHPL0000	VBN2AHS�0000
		8	VBN2AJPL1000	VBN2AJSL1000	VBN2AJPL1001	VBN2AJSL1001	VBN2AJPL0000	VBN2AJSL0000
		11.7*	VBN2AKPL1000	VBN2AKSL1000	VBN2AKPL1001	VBN2AKSL1001	VBN2AKPL0000	VBN2AKSL0000
3/4"	130	0.31	VBN2BBPL1000	VBN2BBSL1000	VBN2BBPL1001	VBN2BBSL1001	VBN2BBPL0000	VBN2BBSL0000
		0.63	VBN2BDPL1000	VBN2BDSL1000	VBN2BDPL1001	VBN2BDSL1001	VBN2BDPL0000	VBN2BDSL0000
		1.2	VBN2BEPL1000	VBN2BESL1000	VBN2BEPL1001	VBN2BESL1001	VBN2BEPL0000	VBN2BESL0000
		2.5	VBN2BGPL1000	VBN2BGS�1000	VBN2BGPL1001	VBN2BGS�1001	VBN2BGPL0000	VBN2BGS�0000
		4.3	VBN2BHPL1000	VBN2BHSL1000	VBN2BHPL1001	VBN2BHSL1001	VBN2BHPL0000	VBN2BHSL0000
		7.4	VBN2BJPL1000	VBN2BJS�1000	VBN2BJPL1001	VBN2BJS�1001	VBN2BJPL0000	VBN2BJS�0000
		10.1	VBN2BKPL1000	VBN2BKSL1000	VBN2BKPL1001	VBN2BKSL1001	VBN2BKPL0000	VBN2BKSL0000
		14.7*	VBN2BLPL1000	VBN2BLSL1000	VBN2BLPL1001	VBN2BLSL1001	VBN2BLPL0000	VBN2BLSL0000
1"	100	29*	VBN2BMPL1000	VBN2BMSL1000	VBN2BMPL1001	VBN2BMSL1001	VBN2BMPL0000	VBN2BMSL0000
		4.4	VBN2CHPL1000	VBN2CHSL1000	VBN2CHPL1001	VBN2CHSL1001	VBN2CHPL0000	VBN2CHSL0000
		9	VBN2CJPL1000	VBN2CJS�1000	VBN2CJPL1001	VBN2CJS�1001	VBN2CJPL0000	VBN2CJS�0000
		15.3	VBN2CLPL1000	VBN2CLS�1000	VBN2CLPL1001	VBN2CLS�1001	VBN2CLPL0000	VBN2CLS�0000
		26	VBN2CMPL1000	VBN2CMSL1000	VBN2CMPL1001	VBN2CMSL1001	VBN2CMPL0000	VBN2CMSL0000
		44*	VBN2CNPL1000	VBN2CNSL1000	VBN2CNPL1001	VBN2CNSL1001	VBN2CNPL0000	VBN2CNSL0000
1-1/4"	100	54*	VBN2CPPL1000	VBN2CPSL1000	VBN2CPPL1001	VBN2CPSL1001	VBN2CPPL0000	VBN2CPSL0000
		4.4	VBN2DHPL1000	VBN2DHSL1000	VBN2DHPL1001	VBN2DHSL1001	VBN2DHPL0000	VBN2DHSL0000
		8.3	VBN2DJPL1000	VBN2DJS�1000	VBN2DJPL1001	VBN2DJS�1001	VBN2DJPL0000	VBN2DJS�0000
		14.9	VBN2DKPL1000	VBN2DKSL1000	VBN2DKPL1001	VBN2DKSL1001	VBN2DKPL0000	VBN2DKSL0000
		25	VBN2DLPL1000	VBN2DLSL1000	VBN2DLPL1001	VBN2DLSL1001	VBN2DLPL0000	VBN2DLSL0000
		37	VBN2DMPL1000	VBN2DMSL1000	VBN2DMPL1001	VBN2DMSL1001	VBN2DMPL0000	VBN2DMSL0000
		41*	VBN2DNPL1000	VBN2DNSL1000	VBN2DNPL1001	VBN2DNSL1001	VBN2DNPL0000	VBN2DNSL0000
		102*	VBN2DSPL1000	VBN2DSSL1000	VBN2DSPL1001	VBN2DSSL1001	VBN2DSPL0000	VBN2DSSL0000

* 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	Nickel-Plated Brass Stainless Steel	Nickel-Plated Brass Stainless Steel	Nickel-Plated Brass Stainless Steel	Nickel-Plated Brass Stainless Steel	Nickel-Plated Brass Stainless Steel	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	VBN2AHSL2000	VBN2AHPL2001	VBN2AHSL2001	VBN2AHPL3000	VBN2AHSL3000	VBN2AHPL3001	VBN2AHSL3001
		8	VBN2AJPL2000	VBN2AJSL2000	VBN2AJPL2001	VBN2AJSL2001	VBN2AJPL3000	VBN2AJSL3000	VBN2AJPL3001	VBN2AJSL3001
		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	VBN2BGS�2000	VBN2BGPL2001	VBN2BGS�2001	VBN2BGPL3000	VBN2BGS�3000	VBN2BGPL3001	VBN2BGS�3001
		4.3	VBN2BHPL2000	VBN2BHSL2000	VBN2BHPL2001	VBN2BHSL2001	VBN2BHPL3000	VBN2BHSL3000	VBN2BHPL3001	VBN2BHSL3001
		7.4	VBN2BJPL2000	VBN2BJS�2000	VBN2BJPL2001	VBN2BJS�2001	VBN2BJPL3000	VBN2BJS�3000	VBN2BJPL3001	VBN2BJS�3001
		10.1	VBN2BKPL2000	VBN2BKSL2000	VBN2BKPL2001	VBN2BKSL2001	VBN2BKPL3000	VBN2BKSL3000	VBN2BKPL3001	VBN2BKSL3001
		14.7*	VBN2BLPL2000	VBN2BLSL2000	VBN2BLPL2001	VBN2BLSL2001	VBN2BLPL3000	VBN2BLSL3000	VBN2BLPL3001	VBN2BLSL3001
		29*	VBN2BMPL2000	VBN2BMSL2000	VBN2BMPL2001	VBN2BMSL2001	VBN2BMPL3000	VBN2BMSL3000	VBN2BMPL3001	VBN2BMSL3001
1"	100	4.4	VBN2CHPL2000	VBN2CHSL2000	VBN2CHPL2001	VBN2CHSL2001	VBN2CHPL3000	VBN2CHSL3000	VBN2CHPL3001	VBN2CHSL3001
		9	VBN2CJPL2000	VBN2CJS�2000	VBN2CJPL2001	VBN2CJS�2001	VBN2CJPL3000	VBN2CJS�3000	VBN2CJPL3001	VBN2CJS�3001
		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
		54*	VBN2CPPL2000	VBN2CPSL2000	VBN2CPPL2001	VBN2CPSL2001	VBN2CPPL3000	VBN2CPSL3000	VBN2CPPL3001	VBN2CPSL3001
1-1/4"	100	4.4	VBN2DHPL2000	VBN2DHSL2000	VBN2DHPL2001	VBN2DHSL2001	VBN2DHPL3000	VBN2DHSL3000	VBN2DHPL3001	VBN2DHSL3001
		8.3	VBN2DJPL2000	VBN2DJS�2000	VBN2DJPL2001	VBN2DJS�2001	VBN2DJPL3000	VBN2DJS�3000	VBN2DJPL3001	VBN2DJS�3001
		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.

PRODUCT SELECTION - VALVES

MVN Actuator With Standard Profile 3-Way NPT Valves 1/2"-1 1/4"



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	24 Vac	24 Vac	24 Vac	24 Vac	24 Vac	
	Frequency		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	
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	Fail in Place	Fail in Place	Fail in Place	Fail in Place	Fail in Place	
Valve Features			Trim	Nickel-Plated Brass	Nickel-Plated Brass	Nickel-Plated Brass	Nickel-Plated Brass	Nickel-Plated Brass	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
		11*	VBN3BKPA1000	VBN3BKPA1001	VBN3BKPA2000	VBN3BKPA2001	VBN3BKPA3000	VBN3BKPA3001	VBN3BKPA0000
1"	50	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
		31*	VBN3CMPA1000	VBN3CMPA1001	VBN3CMPA2000	VBN3CMPA2001	VBN3CMPA3000	VBN3CMPA3001	VBN3CMPA0000
1-1/4"	40	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	
	Frequency		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	
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	Fail in Place	Fail in Place	Fail in Place	Fail in Place	Fail in Place	
Valve Features Trim			Nickel-Plated Brass	Nickel-Plated Brass	Nickel-Plated Brass	Nickel-Plated Brass	Nickel-Plated Brass	Nickel-Plated Brass	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
1"	50	11*	VBN3BKPL1000	VBN3BKPL1001	VBN3BKPL2000	VBN3BKPL2001	VBN3BKPL3000	VBN3BKPL3001	VBN3BKPL0000
		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
1-1/4"	40	31*	VBN3CMPL1000	VBN3CMPL1001	VBN3CMPL2000	VBN3CMPL2001	VBN3CMPL3000	VBN3CMPL3001	VBN3CMPL0000
		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	VBN2ABPXC000	VBN2ABSXC000
		0.68	VBN2ADPX4000	VBN2ADSX4000	VBN2ADPXC000	VBN2ADSXC000
		1.3	VBN2AEPX4000	VBN2AESX4000	VBN2AEPXC000	VBN2AESXC000
		2	VBN2AFPX4000	VBN2AFSX4000	VBN2AFPXC000	VBN2AFSXC000
		2.6	VBN2AGPX4000	VBN2AGSX4000	VBN2AGPXC000	VBN2AGSXC000
		4.7	VBN2AHPX4000	VBN2AHSX4000	VBN2AHPXC000	VBN2AHSXC000
		8	VBN2AJPX4000	VBN2AJSX4000	VBN2AJPXC000	VBN2AJSXC000
3/4"	130	11.7*	VBN2AKPX4000	VBN2AKSX4000	VBN2AKPXC000	VBN2AKSXC000
		0.31	VBN2BBPX4000	VBN2BBSX4000	VBN2BBPXC000	VBN2BBSXC000
		0.63	VBN2BDPX4000	VBN2BDSX4000	VBN2BDPXC000	VBN2BDSXC000
		1.2	VBN2BEPX4000	VBN2BESX4000	VBN2BEPXC000	VBN2BESXC000
		2.5	VBN2BGPX4000	VBN2BGSX4000	VBN2BGPXC000	VBN2BGSXC000
		4.3	VBN2BHPX4000	VBN2BHSX4000	VBN2BHPXC000	VBN2BHSXC000
		7.4	VBN2BJPX4000	VBN2BJSX4000	VBN2BJPXC000	VBN2BJSXC000
1"	100	10.1	VBN2BKPX4000	VBN2BKSX4000	VBN2BKPXC000	VBN2BKSXC000
		14.7*	VBN2BLPX4000	VBN2BLSX4000	VBN2BLPXC000	VBN2BLSXC000
		29*	VBN2BMPX4000	VBN2BMSX4000	VBN2BMPXC000	VBN2BMSXC000
		4.4	VBN2CHPX4000	VBN2CHSX4000	VBN2CHPXC000	VBN2CHSXC000
		9	VBN2CJPX4000	VBN2CJSX4000	VBN2CJPXC000	VBN2CJSXC000
		15.3	VBN2CLPX4000	VBN2CLSX4000	VBN2CLPXC000	VBN2CLSXC000
		26	VBN2CMPX4000	VBN2CMSX4000	VBN2CMPXC000	VBN2CMSXC000
1-1/4"	100	44*	VBN2CNPX4000	VBN2CNSX4000	VBN2CNPXC000	VBN2CNSXC000
		54*	VBN2CPPX4000	VBN2CPSX4000	VBN2CPPXC000	VBN2CPSXC000
		4.4	VBN2DHPX4000	VBN2DHSX4000	VBN2DHPXC000	VBN2DHSXC000
		8.3	VBN2DJPX4000	VBN2DJSX4000	VBN2DJPXC000	VBN2DJSXC000
		14.9	VBN2DKPX4000	VBN2DKSX4000	VBN2DKPXC000	VBN2DKSXC000
		25	VBN2DLPX4000	VBN2DLSX4000	VBN2DLPXC000	VBN2DLSXC000
		37	VBN2DMPX4000	VBN2DMSX4000	VBN2DMPXC000	VBN2DMSXC000
1-1/2"	100	41*	VBN2DNPX4000	VBN2DNSX4000	VBN2DNPXC000	VBN2DNSXC000
		102*	VBN2DSPX4000	VBN2DSSX4000	VBN2DSPXC000	VBN2DSSXC000
		23	VBN2ELPX4000	VBN2ELSX4000	VBN2ELPXC000	VBN2ELSXC000
		30	VBN2EMPX4000	VBN2EMSX4000	VBN2EMPXC000	VBN2EMSXC000
		41	VBN2ENPX4000	VBN2ENSX4000	VBN2ENPXC000	VBN2ENSXC000
		74*	VBN2ERPX4000	VBN2ERSX4000	VBN2ERPXC000	VBN2ERSXC000
		172*	VBN2E1PX4000	VBN2E1SX4000	VBN2E1PXC000	VBN2E1SXC000
2"	100	42	VBN2FNPX4000	VBN2FNSX4000	VBN2FNPXC000	VBN2FNSXC000
		57	VBN2FPPX4000	VBN2FPSX4000	VBN2FPPXC000	VBN2FPSXC000
		71	VBN2FRPX4000	VBN2FRSX4000	VBN2FRPXC000	VBN2FRSXC000
		100	VBN2FSPX4000	VBN2FSSX4000	VBN2FSPXC000	VBN2FSSXC000
		108*	VBN2FTPX4000	VBN2FTSX4000	VBN2FTPXC000	VBN2FTSXC000
		210	VBN2F1PX4000	VBN2F1SX4000	VBN2F1PXC000	VBN2F1SXC000
		266*	VBN2F2PX4000	VBN2F2SX4000	VBN2F2PXC000	VBN2F2SXC000
2-1/2"	100	45	VBN2GNPX4000	VBN2GNSX4000	VBN2GNPXC000	VBN2GNSXC000
		55	VBN2GPPX4000	VBN2GPSX4000	VBN2GPPXC000	VBN2GPSXC000
		72	VBN2GRPX4000	VBN2GRSX4000	VBN2GRPXC000	VBN2GRSXC000
		101	VBN2GSPX4000	VBN2GSSX4000	VBN2GSPXC000	VBN2GSSXC000
		162	VBN2GUPX4000	VBN2GUSX4000	VBN2GUPXC000	VBN2GUSXC000
		202*	VBN2G1PX4000	VBN2G1SX4000	VBN2G1PXC000	VBN2G1SXC000
		49	VBN2HNPX4000	VBN2HNSX4000	VBN2HNPXC000	VBN2HNSXC000
3"	100	63	VBN2HPPX4000	VBN2HPSX4000	VBN2HPPXC000	VBN2HPSXC000
		82	VBN2HRPX4000	VBN2HRSX4000	VBN2HRPXC000	VBN2HRSXC000
		124	VBN2HTPX4000	VBN2HTSX4000	VBN2HTPXC000	VBN2HTSXC000
		145*	VBN2HUPX4000	VBN2HUSX4000	VBN2HUPXC000	VBN2HUSXC000

* Full port ball. No flow characterizing insert.

PRODUCT SELECTION - VALVES

2-Way NPT Valves ½"– 3", NEMA 2

Actuator Features			Non Fail Safe				Valve Only	
Actuator O.S. Number			MN7505A2001		MN7505A2209		N/A	
Power Supply	Voltage		24 VAC/DC		24 VAC/DC			
	Frequency		50 / 60 Hz		50 / 60 Hz			
	Power		5 VA		5 VA			
Actuator Torque			44		44			
Control	(0)2–10 Vdc		•		•			
	4–20 mA (external 500 Ohm Resistor)		•		•			
	Floating		•		•			
	Two-Position SPDT		•		•			
	Two-Position SPST		•		•			
Actuator Stroke			95° ± 3°		95° ± 3°			
Timing			90		90			
Aux Switch			0		2			
Feedback			•		•			
Fail Safe Action			Stay in Place		Stay in Place			
Normal Position (no signal)			Closed		Closed			
Valve Features			Trim	Nickel-Plated Brass	Stainless Steel	Nickel-Plated Brass	Stainless Steel	Nickel-Plated Brass
Valve Size (inches)	Close-off Pressure (psid)	Cv	Short Order Codes					
1/2"	130	0.38	VBN2ABPX5000	VBN2ABSX5000	VBN2ABPXD000	VBN2ABSXD000	VBN2ABPX0000	VBN2ABSX0000
		0.68	VBN2ADPX5000	VBN2ADSX5000	VBN2ADPXD000	VBN2ADSDX000	VBN2ADPX0000	VBN2ADSX0000
		1.3	VBN2AEPX5000	VBN2AESX5000	VBN2AEPXD000	VBN2AESXD000	VBN2AEPX0000	VBN2AESX0000
		2	VBN2AFPX5000	VBN2AFSX5000	VBN2AFPXD000	VBN2AFSXD000	VBN2AFPX0000	VBN2AFSX0000
		2.6	VBN2AGPX5000	VBN2AGSX5000	VBN2AGPXD000	VBN2AGSXD000	VBN2AGPX0000	VBN2AGSX0000
		4.7	VBN2AHPX5000	VBN2AHSX5000	VBN2AHPXD000	VBN2AHSXD000	VBN2AHPX0000	VBN2AHSX0000
		8	VBN2AJPX5000	VBN2AJSX5000	VBN2AJPXD000	VBN2AJSDX000	VBN2AJPX0000	VBN2AJSX0000
3/4"	130	11.7*	VBN2AKPX5000	VBN2AKSX5000	VBN2AKPXD000	VBN2AKSXD000	VBN2AKPX0000	VBN2AKSX0000
		0.31	VBN2BBPX5000	VBN2BBSX5000	VBN2BBPXD000	VBN2BBSXD000	VBN2BBPX0000	VBN2BBSX0000
		0.63	VBN2BDPX5000	VBN2BDSX5000	VBN2BDPXD000	VBN2BDSXD000	VBN2BDPX0000	VBN2BDSX0000
		1.2	VBN2BEPX5000	VBN2BESX5000	VBN2BEPXD000	VBN2BESXD000	VBN2BEPX0000	VBN2BESX0000
		2.5	VBN2BGPX5000	VBN2BG SX5000	VBN2BGPXD000	VBN2BG SXD000	VBN2BGPX0000	VBN2BG SX0000
		4.3	VBN2BHPX5000	VBN2BHSX5000	VBN2BHPXD000	VBN2BHSXD000	VBN2BHPX0000	VBN2BHSX0000
		7.4	VBN2BJPX5000	VBN2BJSX5000	VBN2BJPXD000	VBN2BJSXD000	VBN2BJPX0000	VBN2BJSX0000
1"	100	10.1	VBN2BKPX5000	VBN2BKSX5000	VBN2BKPXD000	VBN2BKSXD000	VBN2BKPX0000	VBN2BKSX0000
		14.7*	VBN2BLPX5000	VBN2BLSX5000	VBN2BLPXD000	VBN2BLSXD000	VBN2BLPX0000	VBN2BLSX0000
		29*	VBN2BMPX5000	VBN2BMSX5000	VBN2BMPXD000	VBN2BMSXD000	VBN2BMPX0000	VBN2BMSX0000
		4.4	VBN2CHPX5000	VBN2CHSX5000	VBN2CHPXD000	VBN2CHSDX000	VBN2CHPX0000	VBN2CHSX0000
		9	VBN2CJPX5000	VBN2CJSX5000	VBN2CJPXD000	VBN2CJSXD000	VBN2CJPX0000	VBN2CJSX0000
		15.3	VBN2CLPX5000	VBN2CLSX5000	VBN2CLPXD000	VBN2CLSXD000	VBN2CLPX0000	VBN2CLSX0000
		26	VBN2CMPX5000	VBN2CMSX5000	VBN2CMPXD000	VBN2CMSXD000	VBN2CMPX0000	VBN2CMSX0000
1-1/4"	100	44*	VBN2CNPX5000	VBN2CNSX5000	VBN2CNPXD000	VBN2CNSXD000	VBN2CNPX0000	VBN2CNSX0000
		54*	VBN2CPPX5000	VBN2CPSX5000	VBN2CPPXD000	VBN2CPSXD000	VBN2CPPX0000	VBN2CPSX0000
		4.4	VBN2DHPX5000	VBN2DHSX5000	VBN2DHPXD000	VBN2DHSXD000	VBN2DHPX0000	VBN2DHSX0000
		8.3	VBN2DJPX5000	VBN2DJSX5000	VBN2DJPXD000	VBN2DJSXD000	VBN2DJPX0000	VBN2DJSX0000
		14.9	VBN2DKPX5000	VBN2DKSX5000	VBN2DKPXD000	VBN2DKSXD000	VBN2DKPX0000	VBN2DKSX0000
		25	VBN2DLPX5000	VBN2DLSX5000	VBN2DLPXD000	VBN2DLSXD000	VBN2DLPX0000	VBN2DLSX0000
		37	VBN2DMPX5000	VBN2DMSX5000	VBN2DMPXD000	VBN2DMSXD000	VBN2DMPX0000	VBN2DMSX0000
1-1/2"	100	41*	VBN2DNPX5000	VBN2DNSX5000	VBN2DNPXD000	VBN2DNSXD000	VBN2DNPX0000	VBN2DNSX0000
		102*	VBN2DSPX5000	VBN2DSSX5000	VBN2DSPXD000	VBN2DSSXD000	VBN2DSPX0000	VBN2DSSX0000
		23	VBN2ELPX5000	VBN2ELSX5000	VBN2ELPXD000	VBN2ELSDX000	VBN2ELPX0000	VBN2ELSX0000
		30	VBN2EMPX5000	VBN2EMSX5000	VBN2EMPXD000	VBN2EMSXD000	VBN2EMPX0000	VBN2EMSX0000
		41	VBN2ENPX5000	VBN2ENSX5000	VBN2ENPXD000	VBN2ENSXD000	VBN2ENPX0000	VBN2ENSX0000
		74*	VBN2ERPX5000	VBN2ERSX5000	VBN2ERPXD000	VBN2ERSXD000	VBN2ERPX0000	VBN2ERSX0000
		172*	VBN2E1PX5000	VBN2E1SX5000	VBN2E1PXD000	VBN2E1SDX000	VBN2E1PX0000	VBN2E1SX0000
2"	100	42	VBN2FNPX5000	VBN2FNSX5000	VBN2FNPXD000	VBN2FNSXD000	VBN2FNPX0000	VBN2FNSX0000
		57	VBN2FPPX5000	VBN2FPSX5000	VBN2FPPXD000	VBN2FPSXD000	VBN2FPPX0000	VBN2FPSX0000
		71	VBN2FRPX5000	VBN2FRSX5000	VBN2FRPXD000	VBN2FRSDX000	VBN2FRPX0000	VBN2FRSX0000
		100	VBN2FSPX5000	VBN2FSSX5000	VBN2FSPXD000	VBN2FSSXD000	VBN2FSPX0000	VBN2FSSX0000
		108*	VBN2FTPX5000	VBN2FTSX5000	VBN2FTPXD000	VBN2FTSXD000	VBN2FTPX0000	VBN2FTSX0000
		210	VBN2F1PX5000	VBN2F1SX5000	VBN2F1PXD000	VBN2F1SDX000	VBN2F1PX0000	VBN2F1SX0000
		266*	VBN2F2PX5000	VBN2F2SX5000	VBN2F2PXD000	VBN2F2SDX000	VBN2F2PX0000	VBN2F2SX0000
2-1/2"	100	45	VBN2GNPX5000	VBN2GNSX5000	VBN2GNPXD000	VBN2GNSXD000	VBN2GNPX0000	VBN2GNSX0000
		55	VBN2GPPX5000	VBN2GPSX5000	VBN2GPPXD000	VBN2GPSXD000	VBN2GPPX0000	VBN2GPSX0000
		72	VBN2GRPX5000	VBN2GRSX5000	VBN2GRPXD000	VBN2GRSDX000	VBN2GRPX0000	VBN2GRSX0000
		101	VBN2GSPX5000	VBN2GSSX5000	VBN2GSPXD000	VBN2GSSXD000	VBN2GSPX0000	VBN2GSSX0000
		162	VBN2GUPX5000	VBN2GUSX5000	VBN2GUPXD000	VBN2GUSXD000	VBN2GUPX0000	VBN2GUSX0000
		202*	VBN2G1PX5000	VBN2G1SX5000	VBN2G1PXD000	VBN2G1SDX000	VBN2G1PX0000	VBN2G1SX0000
		49	VBN2HNPX5000	VBN2HNSX5000	VBN2HNPXD000	VBN2HNSXD000	VBN2HNPX0000	VBN2HNSX0000
3"	100	63	VBN2HPPX5000	VBN2HPSX5000	VBN2HPPXD000	VBN2HPSXD000	VBN2HPPX0000	VBN2HPSX0000
		82	VBN2HRPX5000	VBN2HRSX5000	VBN2HRPXD000	VBN2HRSDX000	VBN2HRPX0000	VBN2HRSX0000
		124	VBN2HTPX5000	VBN2HTSX5000	VBN2HTPXD000	VBN2HTSDX000	VBN2HTPX0000	VBN2HTSX0000
		145*	VBN2HUPX5000	VBN2HUSX5000	VBN2HUPXD000	VBN2HUSXD000	VBN2HUPX0000	VBN2HUSX0000

* Full port ball. No flow characterizing insert.

PRODUCT SELECTION - VALVES

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

2-Way

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	Nickel-Plated Brass	Stainless Steel	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	VBN2ABPXG201	VBN2ABSXG201	VBN2ABPXG101	VBN2ABSXG101	VBN2ABPXH201	VBN2ABSXH201	VBN2ABPXH101	VBN2ABSXH101	
		0.68	VBN2ADPXG201	VBN2ADSXG201	VBN2ADPXG101	VBN2ADSXG101	VBN2ADPXH201	VBN2ADSXH201	VBN2ADPXH101	VBN2ADSXH101	
		1.3	VBN2AEPXG201	VBN2AESXG201	VBN2AEPXG101	VBN2AESXG101	VBN2AEPXH201	VBN2AESXH201	VBN2AEPXH101	VBN2AESXH101	
		2	VBN2AFPXG201	VBN2AFSXG201	VBN2AFPXG101	VBN2AFSXG101	VBN2AFPXH201	VBN2AFSXH201	VBN2AFPXH101	VBN2AFSXH101	
		2.6	VBN2AGPXG201	VBN2AGSXG201	VBN2AGPXG101	VBN2AGSXG101	VBN2AGPXH201	VBN2AGSXH201	VBN2AGPXH101	VBN2AGSXH101	
		4.7	VBN2AHPXG201	VBN2AHSXG201	VBN2AHPXG101	VBN2AHSXG101	VBN2AHPXH201	VBN2AHSXH201	VBN2AHPXH101	VBN2AHSXH101	
		8	VBN2AJPXG201	VBN2AJSXG201	VBN2AJPXG101	VBN2AJSXG101	VBN2AJPXH201	VBN2AJSXH201	VBN2AJPXH101	VBN2AJSXH101	
		11.7*	VBN2AKPXG201	VBN2AKSXG201	VBN2AKPXG101	VBN2AKSXG101	VBN2AKPXH201	VBN2AKSXH201	VBN2AKPXH101	VBN2AKSXH101	
3/4"	130	0.31	VBN2BBPXG201	VBN2BBSXG201	VBN2BBPXG101	VBN2BBSXG101	VBN2BBPXH201	VBN2BBSXH201	VBN2BBPXH101	VBN2BBSXH101	
		0.63	VBN2BDPXG201	VBN2BDSXG201	VBN2BDPXG101	VBN2BDSXG101	VBN2BDPXH201	VBN2BDSXH201	VBN2BDPXH101	VBN2BDSXH101	
		1.2	VBN2BEPXG201	VBN2BESXG201	VBN2BEPXG101	VBN2BESXG101	VBN2BEPXH201	VBN2BESXH201	VBN2BEPXH101	VBN2BESXH101	
		2.5	VBN2BGPXG201	VBN2BGSXG201	VBN2BGPXG101	VBN2BGSXG101	VBN2BGPXH201	VBN2BGSXH201	VBN2BGPXH101	VBN2BGSXH101	
		4.3	VBN2BHPXG201	VBN2BHSXG201	VBN2BHPXG101	VBN2BHSXG101	VBN2BHPXH201	VBN2BHSXH201	VBN2BHPXH101	VBN2BHSXH101	
		7.4	VBN2BJPXG201	VBN2BJSXG201	VBN2BJPXG101	VBN2BJSXG101	VBN2BJPXH201	VBN2BJSXH201	VBN2BJPXH101	VBN2BJSXH101	
		10.1	VBN2BKPXG201	VBN2BKSXG201	VBN2BKPXG101	VBN2BKSXG101	VBN2BKPXH201	VBN2BKSXH201	VBN2BKPXH101	VBN2BKSXH101	
		14.7*	VBN2BLPXG201	VBN2BLSXG201	VBN2BLPXG101	VBN2BLSXG101	VBN2BLPXH201	VBN2BLSXH201	VBN2BLPXH101	VBN2BLSXH101	
1"	100	29*	VBN2BMPXG201	VBN2BMSXG201	VBN2BMPXG101	VBN2BMSXG101	VBN2BMPXH201	VBN2BMSXH201	VBN2BMPXH101	VBN2BMSXH101	
		4.4	VBN2CHPXG201	VBN2CHSXG201	VBN2CHPXG101	VBN2CHSXG101	VBN2CHPXH201	VBN2CHSXH201	VBN2CHPXH101	VBN2CHSXH101	
		9	VBN2CJPGX201	VBN2CJSXG201	VBN2CJPGX101	VBN2CJSXG101	VBN2CJPXH201	VBN2CJSXH201	VBN2CJPXH101	VBN2CJSXH101	
		15.3	VBN2CLPXG201	VBN2CLSXG201	VBN2CLPXG101	VBN2CLSXG101	VBN2CLPXH201	VBN2CLSXH201	VBN2CLPXH101	VBN2CLSXH101	
		26	VBN2CMPXG201	VBN2CMSXG201	VBN2CMPXG101	VBN2CMSXG101	VBN2CMPXH201	VBN2CMSXH201	VBN2CMPXH101	VBN2CMSXH101	
		44*	VBN2CNPXG201	VBN2CNSXG201	VBN2CNPXG101	VBN2CNSXG101	VBN2CNPXH201	VBN2CNSXH201	VBN2CNPXH101	VBN2CNSXH101	
1-1/4"	100	54*	VBN2CPPXG201	VBN2CPSXG201	VBN2CPPXG101	VBN2CPSXG101	VBN2CPPXH201	VBN2CPSXH201	VBN2CPPXH101	VBN2CPSXH101	
		4.4	VBN2DHPXG201	VBN2DHSXG201	VBN2DHPXG101	VBN2DHSXG101	VBN2DHPXH201	VBN2DHSXH201	VBN2DHPXH101	VBN2DHSXH101	
		8.3	VBN2DJPXG201	VBN2DJSXG201	VBN2DJPXG101	VBN2DJSXG101	VBN2DJPXH201	VBN2DJSXH201	VBN2DJPXH101	VBN2DJSXH101	
		14.9	VBN2DKPXG201	VBN2DKSXG201	VBN2DKPXG101	VBN2DKSXG101	VBN2DKPXH201	VBN2DKSXH201	VBN2DKPXH101	VBN2DKSXH101	
		25	VBN2DLPXG201	VBN2DLSXG201	VBN2DLPXG101	VBN2DLSXG101	VBN2DLPXH201	VBN2DLSXH201	VBN2DLPXH101	VBN2DLSXH101	
		37	VBN2DMPXG201	VBN2DMSXG201	VBN2DMPXG101	VBN2DMSXG101	VBN2DMPXH201	VBN2DMSXH201	VBN2DMPXH101	VBN2DMSXH101	
		41*	VBN2DNPXG201	VBN2DNSXG201	VBN2DNPXG101	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

2-Way

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			
	Power		4 VA				4 VA			
Actuator Torque (lb.-in.)			27				27			
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				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	Stainless Steel	Nickel-Plated Brass	Stainless Steel	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	VBN2ABPXE201	VBN2ABSXE201	VBN2ABPXE101	VBN2ABSXE101	VBN2ABPXF201	VBN2ABSXF201	VBN2ABPXF101	VBN2ABSXF101
		0.68	VBN2ADPXE201	VBN2ADSXE201	VBN2ADPXE101	VBN2ADSXE101	VBN2ADPXF201	VBN2ADSXF201	VBN2ADPXF101	VBN2ADSXF101
		1.3	VBN2AEPXE201	VBN2AESXE201	VBN2AEPXE101	VBN2AESXE101	VBN2AEPXF201	VBN2AESXF201	VBN2AEPXF101	VBN2AESXF101
		2	VBN2AFPXE201	VBN2AFSXE201	VBN2AFPXE101	VBN2AFSXE101	VBN2AFPXF201	VBN2AFSXF201	VBN2AFPXF101	VBN2AFSXF101
		2.6	VBN2AGPXE201	VBN2AGSXE201	VBN2AGPXE101	VBN2AGSXE101	VBN2AGPXF201	VBN2AGSXF201	VBN2AGPXF101	VBN2AGSXF101
		4.7	VBN2AHPXE201	VBN2AHSXE201	VBN2AHPXE101	VBN2AHSXE101	VBN2AHPXF201	VBN2AHSXF201	VBN2AHPXF101	VBN2AHSXF101
		8	VBN2AJPXE201	VBN2AJSXE201	VBN2AJPXE101	VBN2AJSXE101	VBN2AJPF201	VBN2AJSXF201	VBN2AJPF101	VBN2AJSXF101
		11.7*	VBN2AKPXE201	VBN2AKSXE201	VBN2AKPXE101	VBN2AKSXE101	VBN2AKPXF201	VBN2AKSXF201	VBN2AKPXF101	VBN2AKSXF101
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	VBN2BGPF201	VBN2BGSXF201	VBN2BGPF101	VBN2BGSXF101
		4.3	VBN2BHPXE201	VBN2BHSXE201	VBN2BHPXE101	VBN2BHSXE101	VBN2BHPXF201	VBN2BHSXF201	VBN2BHPXF101	VBN2BHSXF101
		7.4	VBN2BJPXE201	VBN2BJSXE201	VBN2BJPXE101	VBN2BJSXE101	VBN2BJPF201	VBN2BJSXF201	VBN2BJPF101	VBN2BJSXF101
		10.1	VBN2BKPXE201	VBN2BKSXE201	VBN2BKPXE101	VBN2BKSXE101	VBN2BKPF201	VBN2BKSXF201	VBN2BKPF101	VBN2BKSXF101
		14.7*	VBN2BLPXE201	VBN2BLSXE201	VBN2BLPXE101	VBN2BLSXE101	VBN2BLPF201	VBN2BLSXF201	VBN2BLPF101	VBN2BLSXF101
		29*	VBN2BMPXE201	VBN2BMSXE201	VBN2BMPXE101	VBN2BMSXE101	VBN2BMPXF201	VBN2BMSXF201	VBN2BMPXF101	VBN2BMSXF101
1"	100	4.4	VBN2CHPXE201	VBN2CHSXE201	VBN2CHPXE101	VBN2CHSXE101	VBN2CHPF201	VBN2CHSXF201	VBN2CHPF101	VBN2CHSXF101
		9	VBN2CJPXE201	VBN2CJSXE201	VBN2CJPXE101	VBN2CJSXE101	VBN2CJPF201	VBN2CJSXF201	VBN2CJPF101	VBN2CJSXF101
		15.3	VBN2CLPXE201	VBN2CLSXE201	VBN2CLPXE101	VBN2CLSXE101	VBN2CLPF201	VBN2CLSXF201	VBN2CLPF101	VBN2CLSXF101
		26	VBN2CMPXE201	VBN2CMSXE201	VBN2CMPXE101	VBN2CMSXE101	VBN2CMPXF201	VBN2CMSXF201	VBN2CMPXF101	VBN2CMSXF101
		44*	VBN2CNPXE201	VBN2CNSXE201	VBN2CNPXE101	VBN2CNSXE101	VBN2CNPF201	VBN2CNSXF201	VBN2CNPF101	VBN2CNSXF101
		54*	VBN2CPPXE201	VBN2CPSXE201	VBN2CPPXE101	VBN2CPSXE101	VBN2CPPXF201	VBN2CPSXF201	VBN2CPPXF101	VBN2CPSXF101
1-1/4"	100	4.4	VBN2DHPXE201	VBN2DHSXE201	VBN2DHPXE101	VBN2DHSXE101	VBN2DHPXF201	VBN2DHSXF201	VBN2DHPXF101	VBN2DHSXF101
		8.3	VBN2DJPXE201	VBN2DJSXE201	VBN2DJPXE101	VBN2DJSXE101	VBN2DJPF201	VBN2DJSXF201	VBN2DJPF101	VBN2DJSXF101
		14.9	VBN2DKPXE201	VBN2DKSXE201	VBN2DKPXE101	VBN2DKSXE101	VBN2DKPF201	VBN2DKSXF201	VBN2DKPF101	VBN2DKSXF101
		25	VBN2DLPXE201	VBN2DLSXE201	VBN2DLPXE101	VBN2DLSXE101	VBN2DLPF201	VBN2DLSXF201	VBN2DLPF101	VBN2DLSXF101
		37	VBN2DMPXE201	VBN2DMSXE201	VBN2DMPXE101	VBN2DMSXE101	VBN2DMPXF201	VBN2DMSXF201	VBN2DMPXF101	VBN2DMSXF101
		41*	VBN2DNPXE201	VBN2DNSXE201	VBN2DNPXE101	VBN2DNSXE101	VBN2DNPF201	VBN2DNSXF201	VBN2DNPF101	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

2-Way

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	Nickel-Plated Brass	Stainless Steel	Nickel-Plated Brass	Stainless Steel	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	VBN2ELPX6200	VBN2ELSX6200	VBN2ELPX6100	VBN2ELSX6100	
		30	VBN2EMPX6200	VBN2EMSX6200	VBN2EMPX6100	VBN2EMSX6100	VBN2EMPX6200	VBN2EMSX6200	VBN2EMPX6100	VBN2EMSX6100	
		41	VBN2ENPX6200	VBN2ENSX6200	VBN2ENPX6100	VBN2ENSX6100	VBN2ENPX6200	VBN2ENSX6200	VBN2ENPX6100	VBN2ENSX6100	
		74*	VBN2ERPX6200	VBN2ERSX6200	VBN2ERPX6100	VBN2ERSX6100	VBN2ERPX6200	VBN2ERSX6200	VBN2ERPX6100	VBN2ERSX6100	
		172*	VBN2E1PX6200	VBN2E1SX6200	VBN2E1PX6100	VBN2E1SX6100	VBN2E1PX6200	VBN2E1SX6200	VBN2E1PX6100	VBN2E1SX6100	
2"	100	42	VBN2FNPX6200	VBN2FNSX6200	VBN2FNPX6100	VBN2FNSX6100	VBN2FNPX6200	VBN2FNSX6200	VBN2FNPX6100	VBN2FNSX6100	
		57	VBN2FPPX6200	VBN2FPSX6200	VBN2FPPX6100	VBN2FPSX6100	VBN2FPPX6200	VBN2FPSX6200	VBN2FPPX6100	VBN2FPSX6100	
		71	VBN2FRPX6200	VBN2FRSX6200	VBN2FRPX6100	VBN2FRSX6100	VBN2FRPX6200	VBN2FRSX6200	VBN2FRPX6100	VBN2FRSX6100	
		100	VBN2FSPX6200	VBN2FSSX6200	VBN2FSPX6100	VBN2FSSX6100	VBN2FSPX6200	VBN2FSSX6200	VBN2FSPX6100	VBN2FSSX6100	
		108*	VBN2FTPX6200	VBN2FTSX6200	VBN2FTPX6100	VBN2FTSX6100	VBN2FTPX6200	VBN2FTSX6200	VBN2FTPX6100	VBN2FTSX6100	
		210	VBN2F1PX6200	VBN2F1SX6200	VBN2F1PX6100	VBN2F1SX6100	VBN2F1PX6200	VBN2F1SX6200	VBN2F1PX6100	VBN2F1SX6100	
		266*	VBN2F2PX6200	VBN2F2SX6200	VBN2F2PX6100	VBN2F2SX6100	VBN2F2PX6200	VBN2F2SX6200	VBN2F2PX6100	VBN2F2SX6100	
2-1/2"	100	45	VBN2GNPX6200	VBN2GNSX6200	VBN2GNPX6100	VBN2GNSX6100	VBN2GNPX6200	VBN2GNSX6200	VBN2GNPX6100	VBN2GNSX6100	
		55	VBN2GPPX6200	VBN2GPSX6200	VBN2GPPX6100	VBN2GPSX6100	VBN2GPPX6200	VBN2GPSX6200	VBN2GPPX6100	VBN2GPSX6100	
		72	VBN2GRPX6200	VBN2GRSX6200	VBN2GRPX6100	VBN2GRSX6100	VBN2GRPX6200	VBN2GRSX6200	VBN2GRPX6100	VBN2GRSX6100	
		101	VBN2GSPX6200	VBN2GSSX6200	VBN2GSPX6100	VBN2GSSX6100	VBN2GSPX6200	VBN2GSSX6200	VBN2GSPX6100	VBN2GSSX6100	
		162	VBN2GUPX6200	VBN2GUSX6200	VBN2GUPX6100	VBN2GUSX6100	VBN2GUPX6200	VBN2GUSX6200	VBN2GUPX6100	VBN2GUSX6100	
		202*	VBN2G1PX6200	VBN2G1SX6200	VBN2G1PX6100	VBN2G1SX6100	VBN2G1PX6200	VBN2G1SX6200	VBN2G1PX6100	VBN2G1SX6100	
3	100	49	VBN2HNPX6200	VBN2HNSX6200	VBN2HNPX6100	VBN2HNSX6100	VBN2HNPX6200	VBN2HNSX6200	VBN2HNPX6100	VBN2HNSX6100	
		63	VBN2HPPX6200	VBN2HPSX6200	VBN2HPPX6100	VBN2HPSX6100	VBN2HPPX6200	VBN2HPSX6200	VBN2HPPX6100	VBN2HPSX6100	
		82	VBN2HRPX6200	VBN2HRSX6200	VBN2HRPX6100	VBN2HRSX6100	VBN2HRPX6200	VBN2HRSX6200	VBN2HRPX6100	VBN2HRSX6100	
		124	VBN2HTPX6200	VBN2HTSX6200	VBN2HTPX6100	VBN2HTSX6100	VBN2HTPX6200	VBN2HTSX6200	VBN2HTPX6100	VBN2HTSX6100	
		145*	VBN2HUPX6200	VBN2HUSX6200	VBN2HUPX6100	VBN2HUSX6100	VBN2HUPX6200	VBN2HUSX6200	VBN2HUPX6100	VBN2HUSX6100	

* Full port ball. No flow characterizing insert.

PRODUCT SELECTION - VALVES

2-Way NPT Valves ½"- 3", NEMA 2

Actuator Features			Fail Safe							
Actuator O.S. Number			MS8105A1030				MS8105A1130			
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)			45 / 25				45 / 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	Nickel-Plated Brass	Stainless Steel	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	VBN2ABPX7200	VBN2ABSX7200	VBN2ABPX7100	VBN2ABSX7100	VBN2ABPX7100	VBN2ABPX7100	VBN2ABPX7100	VBN2ABPX7100
		0.68	VBN2ADPX7200	VBN2ADPX7200	VBN2ADPX7100	VBN2ADPX7100	VBN2ADPX7100	VBN2ADPX7100	VBN2ADPX7100	VBN2ADPX7100
		1.3	VBN2AEPX7200	VBN2AEPX7200	VBN2AEPX7100	VBN2AEPX7100	VBN2AEPX7100	VBN2AEPX7100	VBN2AEPX7100	VBN2AEPX7100
		2	VBN2AFPX7200	VBN2AFPX7200	VBN2AFPX7100	VBN2AFPX7100	VBN2AFPX7100	VBN2AFPX7100	VBN2AFPX7100	VBN2AFPX7100
		2.6	VBN2AGPX7200	VBN2AGPX7200	VBN2AGPX7100	VBN2AGPX7100	VBN2AGPX7100	VBN2AGPX7100	VBN2AGPX7100	VBN2AGPX7100
		4.7	VBN2AHPX7200	VBN2AHPX7200	VBN2AHPX7100	VBN2AHPX7100	VBN2AHPX7100	VBN2AHPX7100	VBN2AHPX7100	VBN2AHPX7100
		8	VBN2AJPX7200	VBN2AJPX7200	VBN2AJPX7100	VBN2AJPX7100	VBN2AJPX7100	VBN2AJPX7100	VBN2AJPX7100	VBN2AJPX7100
		11.7*	VBN2AKPX7200	VBN2AKPX7200	VBN2AKPX7100	VBN2AKPX7100	VBN2AKPX7100	VBN2AKPX7100	VBN2AKPX7100	VBN2AKPX7100
		0.31	VBN2BBPX7200	VBN2BBPX7200	VBN2BBPX7100	VBN2BBPX7100	VBN2BBPX7100	VBN2BBPX7100	VBN2BBPX7100	VBN2BBPX7100
		0.63	VBN2BDPX7200	VBN2BDPX7200	VBN2BDPX7100	VBN2BDPX7100	VBN2BDPX7100	VBN2BDPX7100	VBN2BDPX7100	VBN2BDPX7100
3/4"	130	1.2	VBN2BEPX7200	VBN2BEPX7200	VBN2BEPX7100	VBN2BEPX7100	VBN2BEPX7100	VBN2BEPX7100	VBN2BEPX7100	VBN2BEPX7100
		2.5	VBN2BGPX7200	VBN2BGPX7200	VBN2BGPX7100	VBN2BGPX7100	VBN2BGPX7100	VBN2BGPX7100	VBN2BGPX7100	VBN2BGPX7100
		4.3	VBN2BHPX7200	VBN2BHPX7200	VBN2BHPX7100	VBN2BHPX7100	VBN2BHPX7100	VBN2BHPX7100	VBN2BHPX7100	VBN2BHPX7100
		7.4	VBN2BJPX7200	VBN2BJPX7200	VBN2BJPX7100	VBN2BJPX7100	VBN2BJPX7100	VBN2BJPX7100	VBN2BJPX7100	VBN2BJPX7100
		10.1	VBN2BKPX7200	VBN2BKPX7200	VBN2BKPX7100	VBN2BKPX7100	VBN2BKPX7100	VBN2BKPX7100	VBN2BKPX7100	VBN2BKPX7100
		14.7*	VBN2BLPX7200	VBN2BLPX7200	VBN2BLPX7100	VBN2BLPX7100	VBN2BLPX7100	VBN2BLPX7100	VBN2BLPX7100	VBN2BLPX7100
		29*	VBN2BMPX7200	VBN2BMPX7200	VBN2BMPX7100	VBN2BMPX7100	VBN2BMPX7100	VBN2BMPX7100	VBN2BMPX7100	VBN2BMPX7100
		4.4	VBN2CHPX7200	VBN2CHPX7200	VBN2CHPX7100	VBN2CHPX7100	VBN2CHPX7100	VBN2CHPX7100	VBN2CHPX7100	VBN2CHPX7100
		9	VBN2CJPX7200	VBN2CJPX7200	VBN2CJPX7100	VBN2CJPX7100	VBN2CJPX7100	VBN2CJPX7100	VBN2CJPX7100	VBN2CJPX7100
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1"	100	26	VBN2CMPX7200	VBN2CMPX7200	VBN2CMPX7100	VBN2CMPX7100	VBN2CMPX7100	VBN2CMPX7100	VBN2CMPX7100	VBN2CMPX7100
		44*	VBN2CNPX7200	VBN2CNPX7200	VBN2CNPX7100	VBN2CNPX7100	VBN2CNPX7100	VBN2CNPX7100	VBN2CNPX7100	VBN2CNPX7100
		54*	VBN2CPPX7200	VBN2CPPX7200	VBN2CPPX7100	VBN2CPPX7100	VBN2CPPX7100	VBN2CPPX7100	VBN2CPPX7100	VBN2CPPX7100
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		8.3	VBN2DJPX7200	VBN2DJPX7200	VBN2DJPX7100	VBN2DJPX7100	VBN2DJPX7100	VBN2DJPX7100	VBN2DJPX7100	VBN2DJPX7100
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		41*	VBN2DNPX7200	VBN2DNPX7200	VBN2DNPX7100	VBN2DNPX7100	VBN2DNPX7100	VBN2DNPX7100	VBN2DNPX7100	VBN2DNPX7100
		102*	VBN2DSPX7200	VBN2DSPX7200	VBN2DSPX7100	VBN2DSPX7100	VBN2DSPX7100	VBN2DSPX7100	VBN2DSPX7100	VBN2DSPX7100
1-1/2"	100	23	VBN2ELPX7200	VBN2ELPX7200	VBN2ELPX7100	VBN2ELPX7100	VBN2ELPX7100	VBN2ELPX7100	VBN2ELPX7100	VBN2ELPX7100
		30	VBN2EMPX7200	VBN2EMPX7200	VBN2EMPX7100	VBN2EMPX7100	VBN2EMPX7100	VBN2EMPX7100	VBN2EMPX7100	VBN2EMPX7100
		41	VBN2ENPX7200	VBN2ENPX7200	VBN2ENPX7100	VBN2ENPX7100	VBN2ENPX7100	VBN2ENPX7100	VBN2ENPX7100	VBN2ENPX7100
		74*	VBN2ERPX7200	VBN2ERPX7200	VBN2ERPX7100	VBN2ERPX7100	VBN2ERPX7100	VBN2ERPX7100	VBN2ERPX7100	VBN2ERPX7100
		172*	VBN2E1PX7200	VBN2E1PX7200	VBN2E1PX7100	VBN2E1PX7100	VBN2E1PX7100	VBN2E1PX7100	VBN2E1PX7100	VBN2E1PX7100
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		57	VBN2FPPX7200	VBN2FPPX7200	VBN2FPPX7100	VBN2FPPX7100	VBN2FPPX7100	VBN2FPPX7100	VBN2FPPX7100	VBN2FPPX7100
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2"	100	210	VBN2F1PX7200	VBN2F1PX7200	VBN2F1PX7100	VBN2F1PX7100	VBN2F1PX7100	VBN2F1PX7100	VBN2F1PX7100	VBN2F1PX7100
		266*	VBN2F2PX7200	VBN2F2PX7200	VBN2F2PX7100	VBN2F2PX7100	VBN2F2PX7100	VBN2F2PX7100	VBN2F2PX7100	VBN2F2PX7100
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		162	VBN2GUPX7200	VBN2GUPX7200	VBN2GUPX7100	VBN2GUPX7100	VBN2GUPX7100	VBN2GUPX7100	VBN2GUPX7100	VBN2GUPX7100
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		63	VBN2HPPX7200	VBN2HPPX7200	VBN2HPPX7100	VBN2HPPX7100	VBN2HPPX7100	VBN2HPPX7100	VBN2HPPX7100	VBN2HPPX7100
3"	100	82	VBN2HRPX7200	VBN2HRPX7200	VBN2HRPX7100	VBN2HRPX7100	VBN2HRPX7100	VBN2HRPX7100	VBN2HRPX7100	VBN2HRPX7100
		124	VBN2HTPX7200	VBN2HTPX7200	VBN2HTPX7100	VBN2HTPX7100	VBN2HTPX7100	VBN2HTPX7100	VBN2HTPX7100	VBN2HTPX7100
		145*	VBN2HUPX7200	VBN2HUPX7200	VBN2HUPX7100	VBN2HUPX7100	VBN2HUPX7100	VBN2HUPX7100	VBN2HUPX7100	VBN2HUPX7100

* Full port ball. No flow characterizing insert.

PRODUCT SELECTION - VALVES

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

Actuator Features			Fail Safe							
Actuator O.S. Number			MS4105A1030				MS4105A1130			
Power Supply		Voltage	100-250 VAC				100-250 VAC			
		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)	45 / 25				45 / 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	Nickel-Plated Brass	Stainless Steel	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	VBN2ABPX8200	VBN2ABSX8200	VBN2ABPX8100	VBN2ABSX8100	VBN2ABPX9200	VBN2ABSX9200	VBN2ABPX9100	VBN2ABSX9100
		0.68	VBN2ADPX8200	VBN2ADSX8200	VBN2ADPX8100	VBN2ADSX8100	VBN2ADPX9200	VBN2ADSX9200	VBN2ADPX9100	VBN2ADSX9100
		1.3	VBN2AEPX8200	VBN2AESX8200	VBN2AEPX8100	VBN2AESX8100	VBN2AEPX9200	VBN2AESX9200	VBN2AEPX9100	VBN2AESX9100
		2	VBN2AFPX8200	VBN2AFSX8200	VBN2AFPX8100	VBN2AFSX8100	VBN2AFPX9200	VBN2AFSX9200	VBN2AFPX9100	VBN2AFSX9100
		2.6	VBN2AGPX8200	VBN2AGSX8200	VBN2AGPX8100	VBN2AGSX8100	VBN2AGPX9200	VBN2AGSX9200	VBN2AGPX9100	VBN2AGSX9100
		4.7	VBN2AHPX8200	VBN2AHSX8200	VBN2AHPX8100	VBN2AHSX8100	VBN2AHPX9200	VBN2AHSX9200	VBN2AHPX9100	VBN2AHSX9100
		8	VBN2AJPX8200	VBN2AJSX8200	VBN2AJPX8100	VBN2AJSX8100	VBN2AJPX9200	VBN2AJSX9200	VBN2AJPX9100	VBN2AJSX9100
3/4"	130	11.7*	VBN2AKPX8200	VBN2AKSX8200	VBN2AKPX8100	VBN2AKSX8100	VBN2AKPX9200	VBN2AKSX9200	VBN2AKPX9100	VBN2AKSX9100
		0.31	VBN2BBPX8200	VBN2BBSX8200	VBN2BBPX8100	VBN2BBSX8100	VBN2BBPX9200	VBN2BBSX9200	VBN2BBPX9100	VBN2BBSX9100
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		4.3	VBN2BHPX8200	VBN2BHSX8200	VBN2BHPX8100	VBN2BHSX8100	VBN2BHPX9200	VBN2BHSX9200	VBN2BHPX9100	VBN2BHSX9100
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		14.7*	VBN2BLPX8200	VBN2BLSX8200	VBN2BLPX8100	VBN2BLSX8100	VBN2BLPX9200	VBN2BLSX9200	VBN2BLPX9100	VBN2BLSX9100
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		26	VBN2CMPX8200	VBN2CMSX8200	VBN2CMPX8100	VBN2CMSX8100	VBN2CMPX9200	VBN2CMSX9200	VBN2CMPX9100	VBN2CMSX9100
1-1/4"	100	44*	VBN2CNPX8200	VBN2CNSX8200	VBN2CNPX8100	VBN2CNSX8100	VBN2CNPX9200	VBN2CNSX9200	VBN2CNPX9100	VBN2CNSX9100
		54*	VBN2CPPX8200	VBN2CPSX8200	VBN2CPPX8100	VBN2CPSX8100	VBN2CPPX9200	VBN2CPSX9200	VBN2CPPX9100	VBN2CPSX9100
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1-1/2"	100	41*	VBN2DNPX8200	VBN2DNSX8200	VBN2DNPX8100	VBN2DNSX8100	VBN2DNPX9200	VBN2DNSX9200	VBN2DNPX9100	VBN2DNSX9100
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		202*	VBN2G1PX8200	VBN2G1SX8200	VBN2G1PX8100	VBN2G1SX8100	VBN2G1PX9200	VBN2G1SX9200	VBN2G1PX9100	VBN2G1SX9100
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3"	100	63	VBN2HPPX8200	VBN2HPSX8200	VBN2HPPX8100	VBN2HPSX8100	VBN2HPPX9200	VBN2HPSX9200	VBN2HPPX9100	VBN2HPSX9100
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		145*	VBN2HUPX8200	VBN2HUSX8200	VBN2HUPX8100	VBN2HUSX8100	VBN2HUPX9200	VBN2HUSX9200	VBN2HUPX9100	VBN2HUSX9100

* Full port ball. No flow characterizing insert.

PRODUCT SELECTION - VALVES

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

Actuator Features			Non Fail Safe								
Actuator O.S. Number			MN6105A1011		MN6105A1201		MN7505A2001		MN7505A2209		
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		5 VA		5 VA		5 VA		5 VA		
Actuator Torque	(lb.-in.)		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°		
Timing	(drive/spring return, seconds)		90		90		90		90		
Aux Switch			0		2		0		2		
Feedback	2-10 Vdc Built In		-		-		•		•		
Fail Safe Action			Stay in Place		Stay in Place		Stay in Place		Stay in Place		
Normal Position (no signal)			Stay in Place		Stay in Place		Closed		Closed		
Valve Features			Trim	Nickel-Plated Brass	Stainless Steel	Nickel-Plated Brass	Stainless Steel	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	VBN2ABPX4002	VBN2ABSX4002	VBN2ABPXC002	VBN2ABSXC002	VBN2ABPX5002	VBN2ABSX5002	VBN2ABPXD002	VBN2ABSXD002	
		0.68	VBN2ADPX4002	VBN2ADSX4002	VBN2ADPXC002	VBN2ADSXC002	VBN2ADPX5002	VBN2ADSX5002	VBN2ADPXD002	VBN2ADSDXD002	
		1.3	VBN2AEPX4002	VBN2AESX4002	VBN2AEPXC002	VBN2AESXC002	VBN2AEPX5002	VBN2AESX5002	VBN2AEPXD002	VBN2AESXD002	
		2	VBN2AFPX4002	VBN2AFSX4002	VBN2AFPXC002	VBN2AFSXC002	VBN2AFPX5002	VBN2AFSX5002	VBN2AFPXD002	VBN2AFSXD002	
		2.6	VBN2AGPX4002	VBN2AGSX4002	VBN2AGPXC002	VBN2AGSXC002	VBN2AGPX5002	VBN2AGSX5002	VBN2AGPXD002	VBN2AGSXD002	
		4.7	VBN2AHPX4002	VBN2AHSX4002	VBN2AHPXC002	VBN2AHSXC002	VBN2AHPX5002	VBN2AHSX5002	VBN2AHPXD002	VBN2AHSXD002	
		8	VBN2AJPX4002	VBN2AJSX4002	VBN2AJPC002	VBN2AJSC002	VBN2AJPX5002	VBN2AJSX5002	VBN2AJPCD002	VBN2AJSDXD002	
		11.7*	VBN2AKPX4002	VBN2AKSX4002	VBN2AKPXC002	VBN2AKSXC002	VBN2AKPX5002	VBN2AKSX5002	VBN2AKPCD002	VBN2AKSDXD002	
		0.31	VBN2BBPX4002	VBN2BBSX4002	VBN2BBPXC002	VBN2BBSXC002	VBN2BBPX5002	VBN2BBSX5002	VBN2BBPXD002	VBN2BBSXD002	
		0.63	VBN2BDPX4002	VBN2BDSX4002	VBN2BDPXC002	VBN2BDSXC002	VBN2BDPX5002	VBN2BDSX5002	VBN2BDPXD002	VBN2BDSXD002	
3/4"	130	1.2	VBN2BEPX4002	VBN2BESX4002	VBN2BEPXC002	VBN2BESXC002	VBN2BEPX5002	VBN2BESX5002	VBN2BEPXD002	VBN2BESXD002	
		2.5	VBN2BGPX4002	VBN2BGSX4002	VBN2BGPXC002	VBN2BGSXC002	VBN2BGPX5002	VBN2BGSX5002	VBN2BGPXD002	VBN2BGSXD002	
		4.3	VBN2BHPX4002	VBN2BHSX4002	VBN2BHPXC002	VBN2BHSXC002	VBN2BHPX5002	VBN2BHSX5002	VBN2BHPXD002	VBN2BHSXD002	
		7.4	VBN2BJPX4002	VBN2BJSX4002	VBN2BJPC002	VBN2BJSXC002	VBN2BJPX5002	VBN2BJSX5002	VBN2BJPCD002	VBN2BJSXD002	
		10.1	VBN2BKPX4002	VBN2BKSX4002	VBN2BKPC002	VBN2BKSXC002	VBN2BKPX5002	VBN2BKSX5002	VBN2BKPCD002	VBN2BKSDXD002	
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		4.4	VBN2CHPX4002	VBN2CHSX4002	VBN2CHPXC002	VBN2CHSXC002	VBN2CHPX5002	VBN2CHSX5002	VBN2CHPCD002	VBN2CHSDXD002	
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1"	100	26	VBN2CMPX4002	VBN2CMSX4002	VBN2CMPXC002	VBN2CMSXC002	VBN2CMPX5002	VBN2CMSX5002	VBN2CMPXD002	VBN2CMSXD002	
		44*	VBN2CNPX4002	VBN2CNSX4002	VBN2CNPC002	VBN2CNSXC002	VBN2CNPX5002	VBN2CNSX5002	VBN2CNPCD002	VBN2CNSXD002	
		54*	VBN2CPPX4002	VBN2CPSX4002	VBN2CPPXC002	VBN2CPSXC002	VBN2CPPX5002	VBN2CPSX5002	VBN2CPPXD002	VBN2CPSXD002	
		4.4	VBN2DHPX4002	VBN2DHSX4002	VBN2DHPXC002	VBN2DHSXC002	VBN2DHPX5002	VBN2DHSX5002	VBN2DHPXD002	VBN2DHSXD002	
		8.3	VBN2DJPX4002	VBN2DJSX4002	VBN2DJPC002	VBN2DJSXC002	VBN2DJPX5002	VBN2DJSX5002	VBN2DJPCD002	VBN2DJSXD002	
		14.9	VBN2DKPX4002	VBN2DKSX4002	VBN2DKPC002	VBN2DKSXC002	VBN2DKPX5002	VBN2DKSX5002	VBN2DKPCD002	VBN2DKSDXD002	
		25	VBN2DLPX4002	VBN2DLSX4002	VBN2DLPXC002	VBN2DLSXC002	VBN2DLPX5002	VBN2DLSX5002	VBN2DLPXD002	VBN2DLSXD002	
		37	VBN2DMPX4002	VBN2DMSX4002	VBN2DMPXC002	VBN2DMSXC002	VBN2DMPX5002	VBN2DMSX5002	VBN2DMPXD002	VBN2DMSXD002	
		41*	VBN2DNPX4002	VBN2DNSX4002	VBN2DNPC002	VBN2DNSXC002	VBN2DNPX5002	VBN2DNSX5002	VBN2DNPCD002	VBN2DNSXD002	
		102*	VBN2DSPX4002	VBN2DSSX4002	VBN2DSPXC002	VBN2DSSXC002	VBN2DSPX5002	VBN2DSSX5002	VBN2DSPXD002	VBN2DSSXD002	
1-1/2"	100	23	VBN2ELPX4002	VBN2ELSX4002	VBN2ELPXC002	VBN2ELSXC002	VBN2ELPX5002	VBN2ELSX5002	VBN2ELPCD002	VBN2ELSDXD002	
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		41	VBN2ENPX4002	VBN2ENSX4002	VBN2ENPC002	VBN2ENSXC002	VBN2ENPX5002	VBN2ENSX5002	VBN2ENPCD002	VBN2ENSXD002	
		74*	VBN2ERPX4002	VBN2ERSX4002	VBN2ERPC002	VBN2ERSXC002	VBN2ERPX5002	VBN2ERSX5002	VBN2ERPCD002	VBN2ERSXD002	
		172*	VBN2E1PX4002	VBN2E1SX4002	VBN2E1PXC002	VBN2E1SXC002	VBN2E1PX5002	VBN2E1SX5002	VBN2E1PCD002	VBN2E1SDXD002	
		42	VBN2FNPX4002	VBN2FNSX4002	VBN2FNPC002	VBN2FNSXC002	VBN2FNPX5002	VBN2FNSX5002	VBN2FNPCD002	VBN2FNSXD002	
		57	VBN2FPPX4002	VBN2FPSX4002	VBN2FPPXC002	VBN2FPSXC002	VBN2FPPX5002	VBN2FPSX5002	VBN2FPPXD002	VBN2FPSXD002	
		71	VBN2FRPX4002	VBN2FRSX4002	VBN2FRPXC002	VBN2FRSXC002	VBN2FRPX5002	VBN2FRSX5002	VBN2FRPCD002	VBN2FRSDXD002	
		100	VBN2FSPX4002	VBN2FSSX4002	VBN2FSPXC002	VBN2FSSXC002	VBN2FSPX5002	VBN2FSSX5002	VBN2FSPXD002	VBN2FSSXD002	
		108*	VBN2FTPX4002	VBN2FTSX4002	VBN2FTPC002	VBN2FTSXC002	VBN2FTPX5002	VBN2FTSX5002	VBN2FTPCD002	VBN2FTSDXD002	
2"	100	210	VBN2F1PX4002	VBN2F1SX4002	VBN2F1PC002	VBN2F1SXC002	VBN2F1PX5002	VBN2F1SX5002	VBN2F1PCD002	VBN2F1SDXD002	
		266*	VBN2F2PX4002	VBN2F2SX4002	VBN2F2PXC002	VBN2F2SXC002	VBN2F2PX5002	VBN2F2SX5002	VBN2F2PCD002	VBN2F2SDXD002	
		45	VBN2GNPX4002	VBN2GNSX4002	VBN2GNPC002	VBN2GNSXC002	VBN2GNPX5002	VBN2GNSX5002	VBN2GNPCD002	VBN2GNSXD002	
		55	VBN2GPPX4002	VBN2GPSX4002	VBN2GPPXC002	VBN2GPSXC002	VBN2GPPX5002	VBN2GPSX5002	VBN2GPPXD002	VBN2GPSXD002	
		72	VBN2GRPX4002	VBN2GRSX4002	VBN2GRPC002	VBN2GRSXC002	VBN2GRPX5002	VBN2GRSX5002	VBN2GRPCD002	VBN2GRSDXD002	
		101	VBN2GSPX4002	VBN2GSSX4002	VBN2GSPXC002	VBN2GSSXC002	VBN2GSPX5002	VBN2GSSX5002	VBN2GSPXD002	VBN2GSSXD002	
		162	VBN2GUPX4002	VBN2GUSX4002	VBN2GUPXC002	VBN2GUSXC002	VBN2GUPX5002	VBN2GUSX5002	VBN2GUPXD002	VBN2GUSXD002	
		202*	VBN2G1PX4002	VBN2G1SX4002	VBN2G1PXC002	VBN2G1SXC002	VBN2G1PX5002	VBN2G1SX5002	VBN2G1PCD002	VBN2G1SDXD002	
		49	VBN2HNPX4002	VBN2HNSX4002	VBN2HNPC002	VBN2HNSXC002	VBN2HNPX5002	VBN2HNSX5002	VBN2HNPCD002	VBN2HNSXD002	
		3"	100	63	VBN2HPPX4002	VBN2HPSX4002	VBN2HPPXC002	VBN2HPSXC002	VBN2HPPX5002	VBN2HPSX5002	VBN2HPPXD002
82	VBN2HRPX4002			VBN2HRSX4002	VBN2HRPXC002	VBN2HRSXC002	VBN2HRPX5002	VBN2HRSX5002	VBN2HRPCD002	VBN2HRSDXD002	
124	VBN2HTPX4002			VBN2HTSX4002	VBN2HTPC002	VBN2HTSXC002	VBN2HTPX5002	VBN2HTSX5002	VBN2HTPCD002	VBN2HTSDXD002	
145*	VBN2HUPX4002			VBN2HUSX4002	VBN2HUPXC002	VBN2HUSXC002	VBN2HUPX5002	VBN2HUSX5002	VBN2HUPXD002	VBN2HUSXD002	

* Full port ball. No flow characterizing insert.

PRODUCT SELECTION - VALVES

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

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			
Actuator Torque	Power		6 VA				6 VA			
	(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	Nickel-Plated Brass	Stainless Steel	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	VBN2ABPX6202	VBN2ABSX6202	VBN2ABPX6102	VBN2ABSX6102	VBN2ABPXB202	VBN2ABSXB202	VBN2ABPXB102	VBN2ABSXB102
		0.68	VBN2ADPX6202	VBN2ADSX6202	VBN2ADPX6102	VBN2ADSX6102	VBN2ADPXB202	VBN2ADSBX202	VBN2ADPXB102	VBN2ADSBX102
		1.3	VBN2AEPX6202	VBN2AESX6202	VBN2AEPX6102	VBN2AESX6102	VBN2AEPXB202	VBN2AESXB202	VBN2AEPXB102	VBN2AESXB102
		2	VBN2AFPX6202	VBN2AFSX6202	VBN2AFPX6102	VBN2AFSX6102	VBN2AFPBX202	VBN2AFSXB202	VBN2AFPBX102	VBN2AFSXB102
		2.6	VBN2AGPX6202	VBN2AGSX6202	VBN2AGPX6102	VBN2AGSX6102	VBN2AGPXB202	VBN2AGSXB202	VBN2AGPXB102	VBN2AGSXB102
		4.7	VBN2AHPX6202	VBN2AHSX6202	VBN2AHPX6102	VBN2AHSX6102	VBN2AHPXB202	VBN2AHSXB202	VBN2AHPXB102	VBN2AHSXB102
		8	VBN2AJPX6202	VBN2AJSX6202	VBN2AJPX6102	VBN2AJSX6102	VBN2AJPBX202	VBN2AJSBX202	VBN2AJPBX102	VBN2AJSBX102
		11.7*	VBN2AKPX6202	VBN2AKSX6202	VBN2AKPX6102	VBN2AKSX6102	VBN2AKPXB202	VBN2AKSXB202	VBN2AKPXB102	VBN2AKSXB102
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3/4"	130	1.2	VBN2BEPX6202	VBN2BESX6202	VBN2BEPX6102	VBN2BESX6102	VBN2BEPXB202	VBN2BESXB202	VBN2BEPXB102	VBN2BESXB102
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1-1/2"	100	23	VBN2ELPX6202	VBN2ELSX6202	VBN2ELPX6102	VBN2ELSX6102	VBN2ELPBX202	VBN2ELSXB202	VBN2ELPBX102	VBN2ELSXB102
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		100	VBN2FSPX6202	VBN2FSSX6202	VBN2FSPX6102	VBN2FSSX6102	VBN2FSPXB202	VBN2FSSXB202	VBN2FSPXB102	VBN2FSSXB102
		108*	VBN2FTPX6202	VBN2FTSX6202	VBN2FTPX6102	VBN2FTSX6102	VBN2FTPBX202	VBN2FTSXB202	VBN2FTPBX102	VBN2FTSXB102
2"	100	210	VBN2F1PX6202	VBN2F1SX6202	VBN2F1PX6102	VBN2F1SX6102	VBN2F1PBX202	VBN2F1SXB202	VBN2F1PBX102	VBN2F1SXB102
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		55	VBN2GPPX6202	VBN2GPSX6202	VBN2GPPX6102	VBN2GPSX6102	VBN2GPPXB202	VBN2GPSXB202	VBN2GPPXB102	VBN2GPSXB102
		72	VBN2GRPX6202	VBN2GRSX6202	VBN2GRPX6102	VBN2GRSX6102	VBN2GRPBX202	VBN2GRSXB202	VBN2GRPBX102	VBN2GRSXB102
		101	VBN2GSPX6202	VBN2GSSX6202	VBN2GSPX6102	VBN2GSSX6102	VBN2GSPXB202	VBN2GSSXB202	VBN2GSPXB102	VBN2GSSXB102
		162	VBN2GUPX6202	VBN2GUSX6202	VBN2GUPX6102	VBN2GUSX6102	VBN2GUPXB202	VBN2GUSXB202	VBN2GUPXB102	VBN2GUSXB102
		202*	VBN2G1PX6202	VBN2G1SX6202	VBN2G1PX6102	VBN2G1SX6102	VBN2G1PBX202	VBN2G1SXB202	VBN2G1PBX102	VBN2G1SXB102
		49	VBN2HNPX6202	VBN2HNSX6202	VBN2HNPX6102	VBN2HNSX6102	VBN2HNPBX202	VBN2HNSXB202	VBN2HNPBX102	VBN2HNSXB102
		63	VBN2HPPX6202	VBN2HPSX6202	VBN2HPPX6102	VBN2HPSX6102	VBN2HPPXB202	VBN2HPSXB202	VBN2HPPXB102	VBN2HPSXB102
3"	100	82	VBN2HRPX6202	VBN2HRSX6202	VBN2HRPX6102	VBN2HRSX6102	VBN2HRPBX202	VBN2HRSXB202	VBN2HRPBX102	VBN2HRSXB102
		124	VBN2HTPX6202	VBN2HTSX6202	VBN2HTPX6102	VBN2HTSX6102	VBN2HTPBX202	VBN2HTSXB202	VBN2HTPBX102	VBN2HTSXB102
		145*	VBN2HUPX6202	VBN2HUSX6202	VBN2HUPX6102	VBN2HUSX6102	VBN2HUPXB202	VBN2HUSXB202	VBN2HUPXB102	VBN2HUSXB102

* Full port ball. No flow characterizing insert.

PRODUCT SELECTION - VALVES

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

Actuator Features			Fail Safe								
Actuator O.S. Number			MS8105A1030				MS8105A1130				
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)		45 / 25				45 / 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	Nickel-Plated Brass	Stainless Steel	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	VBN2ABPX7202	VBN2ABSX7202	VBN2ABPX7102	VBN2ABSX7102	VBN2ABPXA202	VBN2ABSXA202	VBN2ABPXA102	VBN2ABSXA102	
		0.68	VBN2ADPX7202	VBN2ADSX7202	VBN2ADPX7102	VBN2ADSX7102	VBN2ADPXA202	VBN2ADSXA202	VBN2ADPXA102	VBN2ADSXA102	
		1.3	VBN2AEPX7202	VBN2AESX7202	VBN2AEPX7102	VBN2AESX7102	VBN2AEPXA202	VBN2AESXA202	VBN2AEPXA102	VBN2AESXA102	
		2	VBN2AFPX7202	VBN2AFSX7202	VBN2AFPX7102	VBN2AFSX7102	VBN2AFPXA202	VBN2AFSXA202	VBN2AFPXA102	VBN2AFSXA102	
		2.6	VBN2AGPX7202	VBN2AGSX7202	VBN2AGPX7102	VBN2AGSX7102	VBN2AGPXA202	VBN2AGSXA202	VBN2AGPXA102	VBN2AGSXA102	
		4.7	VBN2AHPX7202	VBN2AHSX7202	VBN2AHPX7102	VBN2AHSX7102	VBN2AHPXA202	VBN2AHSXA202	VBN2AHPXA102	VBN2AHSXA102	
		8	VBN2AJPX7202	VBN2AJSX7202	VBN2AJPX7102	VBN2AJSX7102	VBN2AJPXA202	VBN2AJSXA202	VBN2AJPXA102	VBN2AJSXA102	
		11.7*	VBN2AKPX7202	VBN2AKSX7202	VBN2AKPX7102	VBN2AKSX7102	VBN2AKPXA202	VBN2AKSXA202	VBN2AKPXA102	VBN2AKSXA102	
3/4"	130	0.31	VBN2BBPX7202	VBN2BBSX7202	VBN2BBPX7102	VBN2BBSX7102	VBN2BBPXA202	VBN2BBSXA202	VBN2BBPXA102	VBN2BBSXA102	
		0.63	VBN2BDPX7202	VBN2BDSX7202	VBN2BDPX7102	VBN2BDSX7102	VBN2BDPXA202	VBN2BDSXA202	VBN2BDPXA102	VBN2BDSXA102	
		1.2	VBN2BEPX7202	VBN2BESX7202	VBN2BEPX7102	VBN2BESX7102	VBN2BEPXA202	VBN2BESXA202	VBN2BEPXA102	VBN2BESXA102	
		2.5	VBN2BGPX7202	VBN2BGSX7202	VBN2BGPX7102	VBN2BGSX7102	VBN2BGPPXA202	VBN2BGSSXA202	VBN2BGPXA102	VBN2BGSSXA102	
		4.3	VBN2BHPX7202	VBN2BHSX7202	VBN2BHPX7102	VBN2BHSX7102	VBN2BHPXA202	VBN2BHSXA202	VBN2BHPXA102	VBN2BHSXA102	
		7.4	VBN2BJPX7202	VBN2BJSX7202	VBN2BJPX7102	VBN2BJSX7102	VBN2BJPXA202	VBN2BJSXA202	VBN2BJPXA102	VBN2BJSXA102	
		10.1	VBN2BKPX7202	VBN2BKSX7202	VBN2BKPX7102	VBN2BKSX7102	VBN2BKPPXA202	VBN2BKSSXA202	VBN2BKPXA102	VBN2BKSSXA102	
		14.7*	VBN2BLPX7202	VBN2BLSX7202	VBN2BLPX7102	VBN2BLSX7102	VBN2BLPXA202	VBN2BLSXA202	VBN2BLPXA102	VBN2BLSXA102	
1"	100	29*	VBN2BMPX7202	VBN2BMSX7202	VBN2BMPX7102	VBN2BMSX7102	VBN2BMPXA202	VBN2BMSXA202	VBN2BMPXA102	VBN2BMSXA102	
		4.4	VBN2CHPX7202	VBN2CHSX7202	VBN2CHPX7102	VBN2CHSX7102	VBN2CHPXA202	VBN2CHSXA202	VBN2CHPXA102	VBN2CHSXA102	
		9	VBN2CJPX7202	VBN2CJSX7202	VBN2CJPX7102	VBN2CJSX7102	VBN2CJPXA202	VBN2CJSXA202	VBN2CJPXA102	VBN2CJSXA102	
		15.3	VBN2CLPX7202	VBN2CLSX7202	VBN2CLPX7102	VBN2CLSX7102	VBN2CLPXA202	VBN2CLSXA202	VBN2CLPXA102	VBN2CLSXA102	
		26	VBN2CMPX7202	VBN2CMSX7202	VBN2CMPX7102	VBN2CMSX7102	VBN2CMPXA202	VBN2CMSXA202	VBN2CMPXA102	VBN2CMSXA102	
		44*	VBN2CNPX7202	VBN2CNSX7202	VBN2CNPX7102	VBN2CNSX7102	VBN2CNPXA202	VBN2CNSXA202	VBN2CNPXA102	VBN2CNSXA102	
		54*	VBN2CPPX7202	VBN2CPSX7202	VBN2CPPX7102	VBN2CPSX7102	VBN2CPPXA202	VBN2CPSXA202	VBN2CPPXA102	VBN2CPSXA102	
		4.4	VBN2DHPX7202	VBN2DHSX7202	VBN2DHPX7102	VBN2DHSX7102	VBN2DHPXA202	VBN2DHSXA202	VBN2DHPXA102	VBN2DHSXA102	
1-1/4"	100	8.3	VBN2DJPX7202	VBN2DJSX7202	VBN2DJPX7102	VBN2DJSX7102	VBN2DJPXA202	VBN2DJSXA202	VBN2DJPXA102	VBN2DJSXA102	
		14.9	VBN2DKPX7202	VBN2DKSX7202	VBN2DKPX7102	VBN2DKSX7102	VBN2DKPXA202	VBN2DKSXA202	VBN2DKPXA102	VBN2DKSXA102	
		25	VBN2DLPX7202	VBN2DLSX7202	VBN2DLPX7102	VBN2DLSX7102	VBN2DLPXA202	VBN2DLSXA202	VBN2DLPXA102	VBN2DLSXA102	
		37	VBN2DMPX7202	VBN2DMSX7202	VBN2DMPX7102	VBN2DMSX7102	VBN2DMPXA202	VBN2DMSXA202	VBN2DMPXA102	VBN2DMSXA102	
		41*	VBN2DNPX7202	VBN2DNSX7202	VBN2DNPX7102	VBN2DNSX7102	VBN2DNPPXA202	VBN2DNSSXA202	VBN2DNPXA102	VBN2DNSSXA102	
		102*	VBN2DSPX7202	VBN2DSSX7202	VBN2DSPX7102	VBN2DSSX7102	VBN2DSPXA202	VBN2DSSXA202	VBN2DSPXA102	VBN2DSSXA102	
		23	VBN2ELPX7202	VBN2ELSX7202	VBN2ELPX7102	VBN2ELSX7102	VBN2ELPXA202	VBN2ELSXA202	VBN2ELPXA102	VBN2ELSXA102	
		30	VBN2EMPX7202	VBN2EMSX7202	VBN2EMPX7102	VBN2EMSX7102	VBN2EMPXA202	VBN2EMSXA202	VBN2EMPXA102	VBN2EMSXA102	
1-1/2"	100	41	VBN2ENPX7202	VBN2ENSX7202	VBN2ENPX7102	VBN2ENSX7102	VBN2ENPXA202	VBN2ENSXA202	VBN2ENPXA102	VBN2ENSXA102	
		74*	VBN2ERPX7202	VBN2ERSX7202	VBN2ERPX7102	VBN2ERSX7102	VBN2ERPXA202	VBN2ERSXA202	VBN2ERPXA102	VBN2ERSXA102	
		172*	VBN2E1PX7202	VBN2E1SX7202	VBN2E1PX7102	VBN2E1SX7102	VBN2E1PXA202	VBN2E1SXA202	VBN2E1PXA102	VBN2E1SXA102	
		42	VBN2FNPX7202	VBN2FNSX7202	VBN2FNPX7102	VBN2FNSX7102	VBN2FNPPXA202	VBN2FNSSXA202	VBN2FNPXA102	VBN2FNSSXA102	
		57	VBN2FPPX7202	VBN2FPSX7202	VBN2FPPX7102	VBN2FPSX7102	VBN2FPPXA202	VBN2FPSXA202	VBN2FPPXA102	VBN2FPSXA102	
		71	VBN2FRPX7202	VBN2FRSX7202	VBN2FRPX7102	VBN2FRSX7102	VBN2FRPXA202	VBN2FRSXA202	VBN2FRPXA102	VBN2FRSXA102	
		100	VBN2FSPX7202	VBN2FSSX7202	VBN2FSPX7102	VBN2FSSX7102	VBN2FSPXA202	VBN2FSSXA202	VBN2FSPXA102	VBN2FSSXA102	
		108*	VBN2FTPX7202	VBN2FTSX7202	VBN2FTPX7102	VBN2FTSX7102	VBN2FTPXA202	VBN2FTSXA202	VBN2FTPXA102	VBN2FTSXA102	
2"	100	210	VBN2F1PX7202	VBN2F1SX7202	VBN2F1PX7102	VBN2F1SX7102	VBN2F1PXA202	VBN2F1SXA202	VBN2F1PXA102	VBN2F1SXA102	
		266*	VBN2F2PX7202	VBN2F2SX7202	VBN2F2PX7102	VBN2F2SX7102	VBN2F2PXA202	VBN2F2SXA202	VBN2F2PXA102	VBN2F2SXA102	
		45	VBN2GNPX7202	VBN2GNSX7202	VBN2GNPX7102	VBN2GNSX7102	VBN2GNPXA202	VBN2GNSXA202	VBN2GNPXA102	VBN2GNSXA102	
		55	VBN2GPPX7202	VBN2GPSX7202	VBN2GPPX7102	VBN2GPSX7102	VBN2GPPXA202	VBN2GPSXA202	VBN2GPPXA102	VBN2GPSXA102	
		72	VBN2GRPX7202	VBN2GRSX7202	VBN2GRPX7102	VBN2GRSX7102	VBN2GRPXA202	VBN2GRSXA202	VBN2GRPXA102	VBN2GRSXA102	
		101	VBN2GSPX7202	VBN2GSSX7202	VBN2GSPX7102	VBN2GSSX7102	VBN2GSPXA202	VBN2GSSXA202	VBN2GSPXA102	VBN2GSSXA102	
		162	VBN2GUPX7202	VBN2GUSX7202	VBN2GUPX7102	VBN2GUSX7102	VBN2GUPXA202	VBN2GUSXA202	VBN2GUPXA102	VBN2GUSXA102	
		202*	VBN2G1PX7202	VBN2G1SX7202	VBN2G1PX7102	VBN2G1SX7102	VBN2G1PXA202	VBN2G1SXA202	VBN2G1PXA102	VBN2G1SXA102	
3"	100	49	VBN2HNPX7202	VBN2HNSX7202	VBN2HNPX7102	VBN2HNSX7102	VBN2HNPPXA202	VBN2HNSXA202	VBN2HNPXA102	VBN2HNSXA102	
		63	VBN2HPPX7202	VBN2HPSX7202	VBN2HPPX7102	VBN2HPSX7102	VBN2HPPXA202	VBN2HPSXA202	VBN2HPPXA102	VBN2HPSXA102	
		82	VBN2HRPX7202	VBN2HRSX7202	VBN2HRPX7102	VBN2HRSX7102	VBN2HRPXA202	VBN2HRSXA202	VBN2HRPXA102	VBN2HRSXA102	
		124	VBN2HTPX7202	VBN2HTSX7202	VBN2HTPX7102	VBN2HTSX7102	VBN2HTPXA202	VBN2HTSXA202	VBN2HTPXA102	VBN2HTSXA102	
		145*	VBN2HUPX7202	VBN2HUSX7202	VBN2HUPX7102	VBN2HUSX7102	VBN2HUPXA202	VBN2HUSXA202	VBN2HUPXA102	VBN2HUSXA102	

* Full port ball. No flow characterizing insert.

PRODUCT SELECTION - VALVES

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

Actuator Features			Fail Safe							
Actuator O.S. Number			MS4105A1030				MS4105A1130			
Power Supply	Voltage		100-250 VAC				100-250 VAC			
	Frequency		50 / 60 Hz				50 / 60 Hz			
	Power		6 VA				6 VA			
Actuator Torque			44				44			
Control	(0)2-10 Vdc									
	4-20 mA (external 500 Ohm Resistor)									
	Floating									
Two-Position SPDT										
Two-Position SPST										
Actuator Stroke			95° ± 3°				95° ± 3°			
Timing			45 / 25				45 / 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	Nickel-Plated Brass	Stainless Steel	Nickel-Plated Brass	Stainless Steel	Nickel-Plated Brass
Valve Size (inches)	Close-off Pressure (psid)	Cv	Short Order Codes							
1/2"	130	0.38	VBN2ABPX8202	VBN2ABSX8202	VBN2ABPX8102	VBN2ABSX8102	VBN2ABPX9202	VBN2ABSX9202	VBN2ABPX9102	VBN2ABSX9102
		0.68	VBN2ADPX8202	VBN2ADSX8202	VBN2ADPX8102	VBN2ADSX8102	VBN2ADPX9202	VBN2ADSX9202	VBN2ADPX9102	VBN2ADSX9102
		1.3	VBN2AEPX8202	VBN2AESX8202	VBN2AEPX8102	VBN2AESX8102	VBN2AEPX9202	VBN2AESX9202	VBN2AEPX9102	VBN2AESX9102
		2	VBN2AFPX8202	VBN2AFSX8202	VBN2AFPX8102	VBN2AFSX8102	VBN2AFPX9202	VBN2AFSX9202	VBN2AFPX9102	VBN2AFSX9102
		2.6	VBN2AGPX8202	VBN2AGSX8202	VBN2AGPX8102	VBN2AGSX8102	VBN2AGPX9202	VBN2AGSX9202	VBN2AGPX9102	VBN2AGSX9102
		4.7	VBN2AHPX8202	VBN2AHSX8202	VBN2AHPX8102	VBN2AHSX8102	VBN2AHPX9202	VBN2AHSX9202	VBN2AHPX9102	VBN2AHSX9102
		8	VBN2AJPX8202	VBN2AJSX8202	VBN2AJPX8102	VBN2AJSX8102	VBN2AJPX9202	VBN2AJSX9202	VBN2AJPX9102	VBN2AJSX9102
		11.7*	VBN2AKPX8202	VBN2AKSX8202	VBN2AKPX8102	VBN2AKSX8102	VBN2AKPX9202	VBN2AKSX9202	VBN2AKPX9102	VBN2AKSX9102
		0.31	VBN2BBPX8202	VBN2BBSX8202	VBN2BBPX8102	VBN2BBSX8102	VBN2BBPX9202	VBN2BBSX9202	VBN2BBPX9102	VBN2BBSX9102
		0.63	VBN2BDPX8202	VBN2BDSX8202	VBN2BDPX8102	VBN2BDSX8102	VBN2BDPX9202	VBN2BDSX9202	VBN2BDPX9102	VBN2BDSX9102
		1.2	VBN2BEPX8202	VBN2BESX8202	VBN2BEPX8102	VBN2BESX8102	VBN2BEPX9202	VBN2BESX9202	VBN2BEPX9102	VBN2BESX9102
		2.5	VBN2BGPX8202	VBN2BGSX8202	VBN2BGPX8102	VBN2BGSX8102	VBN2BGPX9202	VBN2BGSX9202	VBN2BGPX9102	VBN2BGSX9102
3/4"	130	4.3	VBN2BHPX8202	VBN2BHSX8202	VBN2BHPX8102	VBN2BHSX8102	VBN2BHPX9202	VBN2BHSX9202	VBN2BHPX9102	VBN2BHSX9102
		7.4	VBN2BJPX8202	VBN2BJSX8202	VBN2BJPX8102	VBN2BJSX8102	VBN2BJPX9202	VBN2BJSX9202	VBN2BJPX9102	VBN2BJSX9102
		10.1	VBN2BKPX8202	VBN2BKSX8202	VBN2BKPX8102	VBN2BKSX8102	VBN2BKPX9202	VBN2BKSX9202	VBN2BKPX9102	VBN2BKSX9102
		14.7*	VBN2BLPX8202	VBN2BLSX8202	VBN2BLPX8102	VBN2BLSX8102	VBN2BLPX9202	VBN2BLSX9202	VBN2BLPX9102	VBN2BLSX9102
		29*	VBN2BMPX8202	VBN2BMSX8202	VBN2BMPX8102	VBN2BMSX8102	VBN2BMPX9202	VBN2BMSX9202	VBN2BMPX9102	VBN2BMSX9102
		4.4	VBN2CHPX8202	VBN2CHSX8202	VBN2CHPX8102	VBN2CHSX8102	VBN2CHPX9202	VBN2CHSX9202	VBN2CHPX9102	VBN2CHSX9102
		9	VBN2CJPX8202	VBN2CJSX8202	VBN2CJPX8102	VBN2CJSX8102	VBN2CJPX9202	VBN2CJSX9202	VBN2CJPX9102	VBN2CJSX9102
		15.3	VBN2CLPX8202	VBN2CLSX8202	VBN2CLPX8102	VBN2CLSX8102	VBN2CLPX9202	VBN2CLSX9202	VBN2CLPX9102	VBN2CLSX9102
		26	VBN2CMPX8202	VBN2CMSX8202	VBN2CMPX8102	VBN2CMSX8102	VBN2CMPX9202	VBN2CMSX9202	VBN2CMPX9102	VBN2CMSX9102
		44*	VBN2CNPX8202	VBN2CNSX8202	VBN2CNPX8102	VBN2CNSX8102	VBN2CNPX9202	VBN2CNSX9202	VBN2CNPX9102	VBN2CNSX9102
		54*	VBN2CPPX8202	VBN2CPSX8202	VBN2CPPX8102	VBN2CPSX8102	VBN2CPPX9202	VBN2CPSX9202	VBN2CPPX9102	VBN2CPSX9102
		4.4	VBN2DHPX8202	VBN2DHSX8202	VBN2DHPX8102	VBN2DHSX8102	VBN2DHPX9202	VBN2DHSX9202	VBN2DHPX9102	VBN2DHSX9102
1-1/4"	100	8.3	VBN2DJPX8202	VBN2DJSX8202	VBN2DJPX8102	VBN2DJSX8102	VBN2DJPX9202	VBN2DJSX9202	VBN2DJPX9102	VBN2DJSX9102
		14.9	VBN2DKPX8202	VBN2DKSX8202	VBN2DKPX8102	VBN2DKSX8102	VBN2DKPX9202	VBN2DKSX9202	VBN2DKPX9102	VBN2DKSX9102
		25	VBN2DLPX8202	VBN2DLSX8202	VBN2DLPX8102	VBN2DLSX8102	VBN2DLPX9202	VBN2DLSX9202	VBN2DLPX9102	VBN2DLSX9102
		37	VBN2DMPX8202	VBN2DMSX8202	VBN2DMPX8102	VBN2DMSX8102	VBN2DMPX9202	VBN2DMSX9202	VBN2DMPX9102	VBN2DMSX9102
		41*	VBN2DNPX8202	VBN2DNSX8202	VBN2DNPX8102	VBN2DNSX8102	VBN2DNPX9202	VBN2DNSX9202	VBN2DNPX9102	VBN2DNSX9102
		102*	VBN2DSPX8202	VBN2DSSX8202	VBN2DSPX8102	VBN2DSSX8102	VBN2DSPX9202	VBN2DSSX9202	VBN2DSPX9102	VBN2DSSX9102
		23	VBN2ELPX8202	VBN2ELSX8202	VBN2ELPX8102	VBN2ELSX8102	VBN2ELPX9202	VBN2ELSX9202	VBN2ELPX9102	VBN2ELSX9102
		30	VBN2EMPX8202	VBN2EMSX8202	VBN2EMPX8102	VBN2EMSX8102	VBN2EMPX9202	VBN2EMSX9202	VBN2EMPX9102	VBN2EMSX9102
		41	VBN2ENPX8202	VBN2ENSX8202	VBN2ENPX8102	VBN2ENSX8102	VBN2ENPX9202	VBN2ENSX9202	VBN2ENPX9102	VBN2ENSX9102
		74*	VBN2ERPX8202	VBN2ERSX8202	VBN2ERPX8102	VBN2ERSX8102	VBN2ERPX9202	VBN2ERSX9202	VBN2ERPX9102	VBN2ERSX9102
		172*	VBN2E1PX8202	VBN2E1SX8202	VBN2E1PX8102	VBN2E1SX8102	VBN2E1PX9202	VBN2E1SX9202	VBN2E1PX9102	VBN2E1SX9102
		42	VBN2FNPX8202	VBN2FNSX8202	VBN2FNPX8102	VBN2FNSX8102	VBN2FNPX9202	VBN2FNSX9202	VBN2FNPX9102	VBN2FNSX9102
2"	100	57	VBN2FPPX8202	VBN2FPSX8202	VBN2FPPX8102	VBN2FPSX8102	VBN2FPPX9202	VBN2FPSX9202	VBN2FPPX9102	VBN2FPSX9102
		71	VBN2FRPX8202	VBN2FRSX8202	VBN2FRPX8102	VBN2FRSX8102	VBN2FRPX9202	VBN2FRSX9202	VBN2FRPX9102	VBN2FRSX9102
		100	VBN2FSPX8202	VBN2FSSX8202	VBN2FSPX8102	VBN2FSSX8102	VBN2FSPX9202	VBN2FSSX9202	VBN2FSPX9102	VBN2FSSX9102
		108*	VBN2FTPX8202	VBN2FTSX8202	VBN2FTPX8102	VBN2FTSX8102	VBN2FTPX9202	VBN2FTSX9202	VBN2FTPX9102	VBN2FTSX9102
		210	VBN2F1PX8202	VBN2F1SX8202	VBN2F1PX8102	VBN2F1SX8102	VBN2F1PX9202	VBN2F1SX9202	VBN2F1PX9102	VBN2F1SX9102
		266*	VBN2F2PX8202	VBN2F2SX8202	VBN2F2PX8102	VBN2F2SX8102	VBN2F2PX9202	VBN2F2SX9202	VBN2F2PX9102	VBN2F2SX9102
		45	VBN2GNPX8202	VBN2GNSX8202	VBN2GNPX8102	VBN2GNSX8102	VBN2GNPX9202	VBN2GNSX9202	VBN2GNPX9102	VBN2GNSX9102
		55	VBN2GPPX8202	VBN2GPSX8202	VBN2GPPX8102	VBN2GPSX8102	VBN2GPPX9202	VBN2GPSX9202	VBN2GPPX9102	VBN2GPSX9102
		72	VBN2GRPX8202	VBN2GRSX8202	VBN2GRPX8102	VBN2GRSX8102	VBN2GRPX9202	VBN2GRSX9202	VBN2GRPX9102	VBN2GRSX9102
		101	VBN2GSPX8202	VBN2GSSX8202	VBN2GSPX8102	VBN2GSSX8102	VBN2GSPX9202	VBN2GSSX9202	VBN2GSPX9102	VBN2GSSX9102
		162	VBN2GUPX8202	VBN2GUSX8202	VBN2GUPX8102	VBN2GUSX8102	VBN2GUPX9202	VBN2GUSX9202	VBN2GUPX9102	VBN2GUSX9102
		202*	VBN2G1PX8202	VBN2G1SX8202	VBN2G1PX8102	VBN2G1SX8102	VBN2G1PX9202	VBN2G1SX9202	VBN2G1PX9102	VBN2G1SX9102
3"	100	49	VBN2HNPX8202	VBN2HNSX8202	VBN2HNPX8102	VBN2HNSX8102	VBN2HNPX9202	VBN2HNSX9202	VBN2HNPX9102	VBN2HNSX9102
		63	VBN2HPPX8202	VBN2HPSX8202	VBN2HPPX8102	VBN2HPSX8102	VBN2HPPX9202	VBN2HPSX9202	VBN2HPPX9102	VBN2HPSX9102
		82	VBN2HRPX8202	VBN2HRSX8202	VBN2HRPX8102	VBN2HRSX8102	VBN2HRPX9202	VBN2HRSX9202	VBN2HRPX9102	VBN2HRSX9102
		124	VBN2HTPX8202	VBN2HTSX8202	VBN2HTPX8102	VBN2HTSX8102	VBN2HTPX9202	VBN2HTSX9202	VBN2HTPX9102	VBN2HTSX9102
		145*	VBN2HUPX8202	VBN2HUSX8202	VBN2HUPX8102	VBN2HUSX8102	VBN2HUPX9202	VBN2HUSX9202	VBN2HUPX9102	VBN2HUSX9102

* Full port ball. No flow characterizing insert.

PRODUCT SELECTION - VALVES

3-Way NPT Control Ball Valves 1/2"-1 1/4", NEMA2

3-Way

Actuator Features			Fail Safe			
Actuator O.S. Number			MS3103J1023		MS3103J1223	
Power Supply			Voltage		24 VAC/DC	
			Frequency		50 / 60 Hz	
			Power		4.5 VA	
Actuator Torque			(lb.-in.)		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°	
Timing			(drive/spring return, seconds)		30-180 / 25	
Aux Switch					0	
Feedback					Sylk	
Fail Safe Action			B-AB Open (FSB)		A-AB Open (FSA)	
Normal Position (no signal)			B-AB Open		A-AB Open	
Valve Features			Trim		Nickel-Plated Brass	
					Nickel-Plated Brass	
Valve Size (inches)	Close-off Pressure (psid)	Cv	Short Order Codes			
1/2"	50	0.33	VBN3ABPXG301	VBN3ABPXG401	VBN3ABPXH301	VBN3ABPXH401
		0.59	VBN3ACPXG301	VBN3ACPXG401	VBN3ACPXH301	VBN3ACPXH401
		1	VBN3AEPXG301	VBN3AEPXG401	VBN3AEPXH301	VBN3AEPXH401
		2.4	VBN3AFPXG301	VBN3AFPXG401	VBN3AFPXH301	VBN3AFPXH401
		4.3	VBN3AHPXG301	VBN3AHPXG401	VBN3AHPXH301	VBN3AHPXH401
		8*	VBN3AJPXG301	VBN3AJPXG401	VBN3AJPXH301	VBN3AJPXH401
3/4"	50	0.4	VBN3BCPXG301	VBN3BCPXG401	VBN3BCPXH301	VBN3BCPXH401
		0.66	VBN3BDPXG301	VBN3BDPXG401	VBN3BDPXH301	VBN3BDPXH401
		1.3	VBN3BEPXG301	VBN3BEPXG401	VBN3BEPXH301	VBN3BEPXH401
		2.4	VBN3BFPXG301	VBN3BFPXG401	VBN3BFPXH301	VBN3BFPXH401
		3.8	VBN3BGPXG301	VBN3BGPXG401	VBN3BGPXH301	VBN3BGPXH401
		7	VBN3BJPXG301	VBN3BJPXG401	VBN3BJPXH301	VBN3BJPXH401
		11*	VBN3BKPXG301	VBN3BKPXG401	VBN3BKPXH301	VBN3BKPXH401
1"	50	0.4	VBN3CCPXG301	VBN3CCPXG401	VBN3CCPXH301	VBN3CCPXH401
		0.65	VBN3CDPXG301	VBN3CDPXG401	VBN3CDPXH301	VBN3CDPXH401
		1.3	VBN3CEPXG301	VBN3CEPXG401	VBN3CEPXH301	VBN3CEPXH401
		2.3	VBN3CFPXG301	VBN3CFPXG401	VBN3CFPXH301	VBN3CFPXH401
		3.5	VBN3CGPXG301	VBN3CGPXG401	VBN3CGPXH301	VBN3CGPXH401
		4.5	VBN3CHPXG301	VBN3CHPXG401	VBN3CHPXH301	VBN3CHPXH401
		8.6	VBN3CJPXG301	VBN3CJPXG401	VBN3CJPXH301	VBN3CJPXH401
		14.9	VBN3CKPXG301	VBN3CKPXG401	VBN3CKPXH301	VBN3CKPXH401
		22*	VBN3CLPXG301	VBN3CLPXG401	VBN3CLPXH301	VBN3CLPXH401
		31*	VBN3CMPXG301	VBN3CMPXG401	VBN3CMPXH301	VBN3CMPXH401
1-1/4"	40	4.1	VBN3DHPXG301	VBN3DHPXG401	VBN3DHPXH301	VBN3DHPXH401
		8.7	VBN3DJPXG301	VBN3DJPXG401	VBN3DJPXH301	VBN3DJPXH401
		12.7	VBN3DKPXG301	VBN3DKPXG401	VBN3DKPXH301	VBN3DKPXH401
		19.4*	VBN3DLPXG301	VBN3DLPXG401	VBN3DLPXH301	VBN3DLPXH401
		27	VBN3DMPXG301	VBN3DMPXG401	VBN3DMPXH301	VBN3DMPXH401
		34*	VBN3DNPXG301	VBN3DNPXG401	VBN3DNPXH301	VBN3DNPXH401

* Full port ball. No flow characterizing insert.

PRODUCT SELECTION - VALVES

3-Way NPT Control Ball Valves 1/2"-2 1/2", NEMA2

Actuator Features			Non Fail Safe				Valve Only
Actuator O.S. Number			MN6105A1011	MN6105A1201	MN7505A2001	MN7505A2209	N/A
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		5 VA	5 VA	5 VA	5 VA	
Actuator Torque	(lb.-in.)		44	44	44	44	
Control	(I)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°	
Timing	(drive/spring return, seconds)		90	90	90	90	
Aux Switch			0	2	0	2	
Feedback	2-10 Vdc Built In				•	•	
Fail Safe Action			Stay in Place	Stay in Place	Stay in Place	Stay in Place	
Normal Position (no signal)			Stay in Place	Stay in Place	A-AB Open	A-AB Open	
Valve Features	Trim		Nickel-Plated Brass	Nickel-Plated Brass	Nickel-Plated Brass	Nickel-Plated Brass	Nickel-Plated Brass
Valve Size (inches)	Close-off Pressure (psid)	Cv	Short Order Codes				
1/2"	50	0.33	VBN3ABPX4000	VBN3ABPXC000	VBN3ABPX5000	VBN3ABPXD000	VBN3ABPX0000
		0.59	VBN3ACPX4000	VBN3ACPXC000	VBN3ACPX5000	VBN3ACPXD000	VBN3ACPX0000
		1	VBN3AEPX4000	VBN3AEPXC000	VBN3AEPX5000	VBN3AEPXD000	VBN3AEPX0000
		2.4	VBN3AFPX4000	VBN3AFPXC000	VBN3AFPX5000	VBN3AFPXD000	VBN3AFPX0000
		4.3	VBN3AHPX4000	VBN3AHPXC000	VBN3AHPX5000	VBN3AHPXD000	VBN3AHPX0000
		8*	VBN3AJPX4000	VBN3AJPXC000	VBN3AJPX5000	VBN3AJPXD000	VBN3AJPX0000
3/4"	50	0.4	VBN3BCPX4000	VBN3BCPXC000	VBN3BCPX5000	VBN3BCPXD000	VBN3BCPX0000
		0.66	VBN3BDPX4000	VBN3BDPXC000	VBN3BDPX5000	VBN3BDPXD000	VBN3BDPX0000
		1.3	VBN3BEPX4000	VBN3BEPXC000	VBN3BEPX5000	VBN3BEPXD000	VBN3BEPX0000
		2.4	VBN3BFPX4000	VBN3BFPC000	VBN3BFPX5000	VBN3BFPC000	VBN3BFPX0000
		3.8	VBN3BGPX4000	VBN3BGPXC000	VBN3BGPX5000	VBN3BGPXD000	VBN3BGPX0000
		7	VBN3BJPX4000	VBN3BJPXC000	VBN3BJPX5000	VBN3BJPXD000	VBN3BJPX0000
1"	50	11*	VBN3BKPX4000	VBN3BKPC000	VBN3BKPX5000	VBN3BKPC000	VBN3BKPX0000
		0.4	VBN3CCPX4000	VBN3CCPXC000	VBN3CCPX5000	VBN3CCPXD000	VBN3CCPX0000
		0.65	VBN3CDPX4000	VBN3CDPXC000	VBN3CDPX5000	VBN3CDPXD000	VBN3CDPX0000
		1.3	VBN3CEPX4000	VBN3CEPXC000	VBN3CEPX5000	VBN3CEPXD000	VBN3CEPX0000
		2.3	VBN3CFPX4000	VBN3CFPC000	VBN3CFPX5000	VBN3CFPC000	VBN3CFPX0000
		3.5	VBN3CGPX4000	VBN3CGPXC000	VBN3CGPX5000	VBN3CGPC000	VBN3CGPX0000
		4.5	VBN3CHPX4000	VBN3CHPXC000	VBN3CHPX5000	VBN3CHPC000	VBN3CHPX0000
		8.6	VBN3CJPX4000	VBN3CJPXC000	VBN3CJPX5000	VBN3CJPC000	VBN3CJPX0000
		14.9	VBN3CKPX4000	VBN3CKPXC000	VBN3CKPX5000	VBN3CKPC000	VBN3CKPX0000
		22*	VBN3CLPX4000	VBN3CLPXC000	VBN3CLPX5000	VBN3CLPC000	VBN3CLPX0000
1-1/4"	40	31*	VBN3CMPX4000	VBN3CMPXC000	VBN3CMPX5000	VBN3CMPXD000	VBN3CMPX0000
		4.1	VBN3DHPX4000	VBN3DHPXC000	VBN3DHPX5000	VBN3DHPXD000	VBN3DHPX0000
		8.7	VBN3DJPX4000	VBN3DJPXC000	VBN3DJPX5000	VBN3DJPXD000	VBN3DJPX0000
		12.7	VBN3DKPX4000	VBN3DKPXC000	VBN3DKPX5000	VBN3DKPC000	VBN3DKPX0000
		19.4*	VBN3DLPX4000	VBN3DLPXC000	VBN3DLPX5000	VBN3DLPXD000	VBN3DLPX0000
		27	VBN3DMPX4000	VBN3DMPXC000	VBN3DMPX5000	VBN3DMPXD000	VBN3DMPX0000
1-1/2"	40	34*	VBN3DNPX4000	VBN3DNPC000	VBN3DNPX5000	VBN3DNPC000	VBN3DNPX0000
		4	VBN3EHPX4000	VBN3EHPXC000	VBN3EHPX5000	VBN3EHPXD000	VBN3EHPX0000
		8.3	VBN3EJPX4000	VBN3EJPXC000	VBN3EJPX5000	VBN3EJPXD000	VBN3EJPX0000
		13.4	VBN3EKPX4000	VBN3EKPXC000	VBN3EKPX5000	VBN3EKPXD000	VBN3EKPX0000
		24	VBN3ELPX4000	VBN3ELPXC000	VBN3ELPX5000	VBN3ELPC000	VBN3ELPX0000
		32*	VBN3EMPX4000	VBN3EMPXC000	VBN3EMPX5000	VBN3EMPXD000	VBN3EMPX0000
2"	40	61*	VBN3EPPX4000	VBN3EPPXC000	VBN3EPPX5000	VBN3EPPXD000	VBN3EPPX0000
		24	VBN3FLPX4000	VBN3FLPXC000	VBN3FLPX5000	VBN3FLPC000	VBN3FLPX0000
		38	VBN3FNPX4000	VBN3FNPC000	VBN3FNPX5000	VBN3FNPC000	VBN3FNPX0000
		57*	VBN3FPPX4000	VBN3FPPXC000	VBN3FPPX5000	VBN3FPPXD000	VBN3FPPX0000
		83	VBN3FRPX4000	VBN3FRPXC000	VBN3FRPX5000	VBN3FRPC000	VBN3FRPX0000
2-1/2"	40	109*	VBN3FTPX4000	VBN3FTPC000	VBN3FTPX5000	VBN3FTPC000	VBN3FTPX0000
		38	VBN3GNPX4000	VBN3GNPXC000	VBN3GNPX5000	VBN3GNPC000	VBN3GNPX0000
		74	VBN3GRPX4000	VBN3GRPXC000	VBN3GRPX5000	VBN3GRPC000	VBN3GRPX0000
		100*	VBN3GSPX4000	VBN3GSPXC000	VBN3GSPX5000	VBN3GSPXD000	VBN3GSPX0000

* Full port ball. No flow characterizing insert.

PRODUCT SELECTION - VALVES

3-Way NPT Control Ball Valves 1/2"-1 1/4", NEMA2

3-Way

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	
		Power	4 VA		4 VA	
Actuator Torque		(lb.-in.)	27		27	
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		2	
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)
Normal Position (no signal)			B-AB Open	A-AB Open	B-AB Open	A-AB Open
Valve Features		Trim	Nickel-Plated Brass		Nickel-Plated Brass	
Valve Size (inches)	Close-off Pressure (psid)	Cv	Short Order Codes			
1/2"	50	0.33	VBN3ABPXE401	VBN3ABPXE301	VBN3ABPXF401	VBN3ABPXF301
		0.59	VBN3ACPXE401	VBN3ACPXE301	VBN3ACPXF401	VBN3ACPXF301
		1	VBN3AEPXE401	VBN3AEPXE301	VBN3AEPXF401	VBN3AEPXF301
		2.4	VBN3AFPXE401	VBN3AFPXE301	VBN3AFPXF401	VBN3AFPXF301
		4.3	VBN3AHPXE401	VBN3AHPXE301	VBN3AHPXF401	VBN3AHPXF301
		8*	VBN3AJPXE401	VBN3AJPXE301	VBN3AJPXF401	VBN3AJPXF301
3/4"	50	0.4	VBN3BCPXE401	VBN3BCPXE301	VBN3BCPXF401	VBN3BCPXF301
		0.66	VBN3BDPXE401	VBN3BDPXE301	VBN3BDPXF401	VBN3BDPXF301
		1.3	VBN3BEPXE401	VBN3BEPXE301	VBN3BEPXF401	VBN3BEPXF301
		2.4	VBN3BFPXE401	VBN3BFPXE301	VBN3BFPXF401	VBN3BFPXF301
		3.8	VBN3BGPXE401	VBN3BGPXE301	VBN3BGPXF401	VBN3BGPXF301
		7	VBN3BJPXE401	VBN3BJPXE301	VBN3BJPXF401	VBN3BJPXF301
		11*	VBN3BKPXE401	VBN3BKPXE301	VBN3BKPXF401	VBN3BKPXF301
1"	50	0.4	VBN3CCPXE401	VBN3CCPXE301	VBN3CCPXF401	VBN3CCPXF301
		0.65	VBN3CDPXE401	VBN3CDPXE301	VBN3CDPXF401	VBN3CDPXF301
		1.3	VBN3CEPXE401	VBN3CEPXE301	VBN3CEPXF401	VBN3CEPXF301
		2.3	VBN3CFPXE401	VBN3CFPXE301	VBN3CFPXF401	VBN3CFPXF301
		3.5	VBN3CGPXE401	VBN3CGPXE301	VBN3CGPXF401	VBN3CGPXF301
		4.5	VBN3CHPXE401	VBN3CHPXE301	VBN3CHPXF401	VBN3CHPXF301
		8.6	VBN3CJPXE401	VBN3CJPXE301	VBN3CJPXF401	VBN3CJPXF301
		14.9	VBN3CKPXE401	VBN3CKPXE301	VBN3CKPXF401	VBN3CKPXF301
		22*	VBN3CLPXE401	VBN3CLPXE301	VBN3CLPXF401	VBN3CLPXF301
		31*	VBN3CMPXE401	VBN3CMPXE301	VBN3CMPXF401	VBN3CMPXF301
1-1/4"	40	4.1	VBN3DHPXE401	VBN3DHPXE301	VBN3DHPXF401	VBN3DHPXF301
		8.7	VBN3DJPXE401	VBN3DJPXE301	VBN3DJPXF401	VBN3DJPXF301
		12.7	VBN3DKPXE401	VBN3DKPXE301	VBN3DKPXF401	VBN3DKPXF301
		19.4*	VBN3DLPXE401	VBN3DLPXE301	VBN3DLPXF401	VBN3DLPXF301
		27	VBN3DMPXE401	VBN3DMPXE301	VBN3DMPXF401	VBN3DMPXF301
		34*	VBN3DNPXE401	VBN3DNPXE301	VBN3DNPXF401	VBN3DNPXF301

* 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		MS7505A2130		
Power Supply		Voltage	24 VAC/DC		24 VAC/DC		
		Frequency	50 / 60 Hz		50 / 60 Hz		
Actuator Torque		Power	6 VA		6 VA		
		(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			B-AB Open (FSB)	A-AB Open (FSA)	B-AB Open (FSB)	A-AB Open (FSA)	
Normal Position (no signal)			B-AB Open	A-AB Open	B-AB Open	A-AB Open	
Valve Features		Trim	Nickel-Plated Brass		Nickel-Plated Brass		
Valve Size (inches)	Close-off Pressure (psid)	Cv	Short Order Codes				
3-Way	1-1/2"	40	4	VBN3EHPX6400	VBN3EHPX6300	VBN3EHPXB400	VBN3EHPXB300
			8.3	VBN3EJPX6400	VBN3EJPX6300	VBN3EJXPB400	VBN3EJXPB300
			13.4	VBN3EKPX6400	VBN3EKPX6300	VBN3EKPXB400	VBN3EKPXB300
			24	VBN3ELPX6400	VBN3ELPX6300	VBN3ELPXB400	VBN3ELPXB300
			32*	VBN3EMPX6400	VBN3EMPX6300	VBN3EMPXB400	VBN3EMPXB300
			61*	VBN3EPPX6400	VBN3EPPX6300	VBN3EPPXB400	VBN3EPPXB300
	2"	40	24	VBN3FLPX6400	VBN3FLPX6300	VBN3FLPXB400	VBN3FLPXB300
			38	VBN3FNPX6400	VBN3FNPX6300	VBN3FNPXB400	VBN3FNPXB300
			57*	VBN3FPPX6400	VBN3FPPX6300	VBN3FPPXB400	VBN3FPPXB300
			83	VBN3FRPX6400	VBN3FRPX6300	VBN3FRPXB400	VBN3FRPXB300
			109*	VBN3FTPX6400	VBN3FTPX6300	VBN3FTPXB400	VBN3FTPXB300
2-1/2"	40	38	VBN3GNPX6400	VBN3GNPX6300	VBN3GNPXB400	VBN3GNPXB300	
		74	VBN3GRPX6400	VBN3GRPX6300	VBN3GRPXB400	VBN3GRPXB300	
		100*	VBN3GSPX6400	VBN3GSPX6300	VBN3GSPXB400	VBN3GSPXB300	

* Full port ball. No flow characterizing insert.

PRODUCT SELECTION - VALVES

3-Way NPT Control Ball Valves ½"-2½", NEMA2

Actuator Features			Fail Safe							
Actuator O.S. Number			MS8105A1030		MS8105A1130		MS4105A1030		MS4105A1130	
Power Supply			Voltage		24 VAC/DC		24 VAC/DC		100-250 VAC	
			Frequency		50 / 60 Hz		50 / 60 Hz		50 / 60 Hz	
			Power		6 VA		6 VA		6 VA	
Actuator Torque			(lb.-in.)		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°	
Timing			(drive/spring return, seconds)		45 / 25		45 / 25		45 / 25	
Aux Switch					0		1		0	
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)	
Normal Position (no signal)			B-AB Open		A-AB Open		B-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							
1/2"	50	0.33	VBN3ABPX7400	VBN3ABPX7300	VBN3ABPXA400	VBN3ABPXA300	VBN3ABPX8400	VBN3ABPX8300	VBN3ABPX9400	VBN3ABPX9300
		0.59	VBN3ACPX7400	VBN3ACPX7300	VBN3ACPXA400	VBN3ACPXA300	VBN3ACPX8400	VBN3ACPX8300	VBN3ACPX9400	VBN3ACPX9300
		1	VBN3AEPX7400	VBN3AEPX7300	VBN3AEPXA400	VBN3AEPXA300	VBN3AEPX8400	VBN3AEPX8300	VBN3AEPX9400	VBN3AEPX9300
		2.4	VBN3AFPX7400	VBN3AFPX7300	VBN3AFPXA400	VBN3AFPXA300	VBN3AFPX8400	VBN3AFPX8300	VBN3AFPX9400	VBN3AFPX9300
		4.3	VBN3AHPX7400	VBN3AHPX7300	VBN3AHPXA400	VBN3AHPXA300	VBN3AHPX8400	VBN3AHPX8300	VBN3AHPX9400	VBN3AHPX9300
3/4"	50	8*	VBN3AJPX7400	VBN3AJPX7300	VBN3AJPXA400	VBN3AJPXA300	VBN3AJPX8400	VBN3AJPX8300	VBN3AJPX9400	VBN3AJPX9300
		0.4	VBN3BCPX7400	VBN3BCPX7300	VBN3BCPXA400	VBN3BCPXA300	VBN3BCPX8400	VBN3BCPX8300	VBN3BCPX9400	VBN3BCPX9300
		0.66	VBN3BDPX7400	VBN3BDPX7300	VBN3BDPXA400	VBN3BDPXA300	VBN3BDPX8400	VBN3BDPX8300	VBN3BDPX9400	VBN3BDPX9300
		1.3	VBN3BEPX7400	VBN3BEPX7300	VBN3BEPXA400	VBN3BEPXA300	VBN3BEPX8400	VBN3BEPX8300	VBN3BEPX9400	VBN3BEPX9300
		2.4	VBN3BFPX7400	VBN3BFPX7300	VBN3BFPXA400	VBN3BFPXA300	VBN3BFPX8400	VBN3BFPX8300	VBN3BFPX9400	VBN3BFPX9300
		3.8	VBN3BGPX7400	VBN3BGPX7300	VBN3BGPXA400	VBN3BGPXA300	VBN3BGPX8400	VBN3BGPX8300	VBN3BGPX9400	VBN3BGPX9300
		7	VBN3BJPX7400	VBN3BJPX7300	VBN3BJPXA400	VBN3BJPXA300	VBN3BJPX8400	VBN3BJPX8300	VBN3BJPX9400	VBN3BJPX9300
		11*	VBN3BKPX7400	VBN3BKPX7300	VBN3BKPXA400	VBN3BKPXA300	VBN3BKPX8400	VBN3BKPX8300	VBN3BKPX9400	VBN3BKPX9300
		0.4	VBN3CCPX7400	VBN3CCPX7300	VBN3CCPXA400	VBN3CCPXA300	VBN3CCPX8400	VBN3CCPX8300	VBN3CCPX9400	VBN3CCPX9300
		0.65	VBN3CDPX7400	VBN3CDPX7300	VBN3CDPXA400	VBN3CDPXA300	VBN3CDPX8400	VBN3CDPX8300	VBN3CDPX9400	VBN3CDPX9300
1"	50	1.3	VBN3CEPX7400	VBN3CEPX7300	VBN3CEPXA400	VBN3CEPXA300	VBN3CEPX8400	VBN3CEPX8300	VBN3CEPX9400	VBN3CEPX9300
		2.3	VBN3CFPX7400	VBN3CFPX7300	VBN3CFPXA400	VBN3CFPXA300	VBN3CFPX8400	VBN3CFPX8300	VBN3CFPX9400	VBN3CFPX9300
		3.5	VBN3CGPX7400	VBN3CGPX7300	VBN3CGPXA400	VBN3CGPXA300	VBN3CGPX8400	VBN3CGPX8300	VBN3CGPX9400	VBN3CGPX9300
		4.5	VBN3CHPX7400	VBN3CHPX7300	VBN3CHPXA400	VBN3CHPXA300	VBN3CHPX8400	VBN3CHPX8300	VBN3CHPX9400	VBN3CHPX9300
		8.6	VBN3CJPX7400	VBN3CJPX7300	VBN3CJPXA400	VBN3CJPXA300	VBN3CJPX8400	VBN3CJPX8300	VBN3CJPX9400	VBN3CJPX9300
		14.9	VBN3CKPX7400	VBN3CKPX7300	VBN3CKPXA400	VBN3CKPXA300	VBN3CKPX8400	VBN3CKPX8300	VBN3CKPX9400	VBN3CKPX9300
		22*	VBN3CLPX7400	VBN3CLPX7300	VBN3CLPXA400	VBN3CLPXA300	VBN3CLPX8400	VBN3CLPX8300	VBN3CLPX9400	VBN3CLPX9300
		31*	VBN3CMPX7400	VBN3CMPX7300	VBN3CMPXA400	VBN3CMPXA300	VBN3CMPX8400	VBN3CMPX8300	VBN3CMPX9400	VBN3CMPX9300
		4.1	VBN3DHPX7400	VBN3DHPX7300	VBN3DHPXA400	VBN3DHPXA300	VBN3DHPX8400	VBN3DHPX8300	VBN3DHPX9400	VBN3DHPX9300
		8.7	VBN3DJPX7400	VBN3DJPX7300	VBN3DJPXA400	VBN3DJPXA300	VBN3DJPX8400	VBN3DJPX8300	VBN3DJPX9400	VBN3DJPX9300
1-1/4"	40	12.7	VBN3DKPX7400	VBN3DKPX7300	VBN3DKPXA400	VBN3DKPXA300	VBN3DKPX8400	VBN3DKPX8300	VBN3DKPX9400	VBN3DKPX9300
		19.4*	VBN3DLPX7400	VBN3DLPX7300	VBN3DLPXA400	VBN3DLPXA300	VBN3DLPX8400	VBN3DLPX8300	VBN3DLPX9400	VBN3DLPX9300
		27	VBN3DMPX7400	VBN3DMPX7300	VBN3DMPXA400	VBN3DMPXA300	VBN3DMPX8400	VBN3DMPX8300	VBN3DMPX9400	VBN3DMPX9300
		34*	VBN3DNPX7400	VBN3DNPX7300	VBN3DNPXA400	VBN3DNPXA300	VBN3DNPX8400	VBN3DNPX8300	VBN3DNPX9400	VBN3DNPX9300
		4	VBN3EHPX7400	VBN3EHPX7300	VBN3EHPXA400	VBN3EHPXA300	VBN3EHPX8400	VBN3EHPX8300	VBN3EHPX9400	VBN3EHPX9300
1-1/2"	40	8.3	VBN3EJPX7400	VBN3EJPX7300	VBN3EJPXA400	VBN3EJPXA300	VBN3EJPX8400	VBN3EJPX8300	VBN3EJPX9400	VBN3EJPX9300
		13.4	VBN3EKPX7400	VBN3EKPX7300	VBN3EKPXA400	VBN3EKPXA300	VBN3EKPX8400	VBN3EKPX8300	VBN3EKPX9400	VBN3EKPX9300
		24	VBN3ELPX7400	VBN3ELPX7300	VBN3ELPXA400	VBN3ELPXA300	VBN3ELPX8400	VBN3ELPX8300	VBN3ELPX9400	VBN3ELPX9300
		32*	VBN3EMPX7400	VBN3EMPX7300	VBN3EMPXA400	VBN3EMPXA300	VBN3EMPX8400	VBN3EMPX8300	VBN3EMPX9400	VBN3EMPX9300
		61*	VBN3EPPX7400	VBN3EPPX7300	VBN3EPPXA400	VBN3EPPXA300	VBN3EPPX8400	VBN3EPPX8300	VBN3EPPX9400	VBN3EPPX9300
2"	40	24	VBN3FLPX7400	VBN3FLPX7300	VBN3FLPXA400	VBN3FLPXA300	VBN3FLPX8400	VBN3FLPX8300	VBN3FLPX9400	VBN3FLPX9300
		38	VBN3FNPX7400	VBN3FNPX7300	VBN3FNPXA400	VBN3FNPXA300	VBN3FNPX8400	VBN3FNPX8300	VBN3FNPX9400	VBN3FNPX9300
		57*	VBN3FPPX7400	VBN3FPPX7300	VBN3FPPXA400	VBN3FPPXA300	VBN3FPPX8400	VBN3FPPX8300	VBN3FPPX9400	VBN3FPPX9300
		83	VBN3FRPX7400	VBN3FRPX7300	VBN3FRPXA400	VBN3FRPXA300	VBN3FRPX8400	VBN3FRPX8300	VBN3FRPX9400	VBN3FRPX9300
		109*	VBN3FTPX7400	VBN3FTPX7300	VBN3FTPXA400	VBN3FTPXA300	VBN3FTPX8400	VBN3FTPX8300	VBN3FTPX9400	VBN3FTPX9300
2-1/2"	40	38	VBN3GNPX7400	VBN3GNPX7300	VBN3GNPXA400	VBN3GNPXA300	VBN3GNPX8400	VBN3GNPX8300	VBN3GNPX9400	VBN3GNPX9300
		74	VBN3GRPX7400	VBN3GRPX7300	VBN3GRPXA400	VBN3GRPXA300	VBN3GRPX8400	VBN3GRPX8300	VBN3GRPX9400	VBN3GRPX9300
		100*	VBN3GSPX7400	VBN3GSPX7300	VBN3GSPXA400	VBN3GSPXA300	VBN3GSPX8400	VBN3GSPX8300	VBN3GSPX9400	VBN3GSPX9300

* Full port ball. No flow characterizing insert.

PRODUCT SELECTION - VALVES

3-Way NPT Control Ball Valves ½"-2½", NEMA 3R

Actuator Features			Non Fail Safe				Fail Safe				
Actuator O.S. Number			MN6105A1011	MN6105A1201	MN7505A2001	MN7505A2209	MS7505A2030		MS7505A2130		
Power Supply		Voltage	24 VAC/DC	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		50 / 60 Hz		
		Power	5 VA	5 VA	5 VA	5 VA	6 VA		6 VA		
Actuator Torque		(lb.-in.)	44	44	44	44	44		44		
Control		(O)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°		95° ± 3°		
Timing		(drive/spring return, seconds)	90	90	90	90	90 / 25		90 / 25		
Aux Switch		2 x SPDT Add-on	0	2	0	2	0		1		
Feedback		2-10 Vdc Built In			•	•	•		•		
Fail Safe Action			Stay in Place	Stay in Place	Stay in Place	Stay in Place	B-AB Open (FSB)	A-AB Open (FSA)	B-AB Open (FSB)	A-AB Open (FSA)	
Normal Position (no signal)			Stay in Place	Stay in Place	A-AB Open	A-AB Open	B-AB Open	A-AB Open	B-AB Open	A-AB Open	
Valve Features			Trim	Nickel-Plated Brass	Nickel-Plated Brass	Nickel-Plated Brass	Nickel-Plated Brass		Nickel-Plated Brass		
Valve Size (inches)	Close-off Pressure (psid)	Cv	Short Order Codes								
3-Way	1/2"	50	0.33	VBN3ABPX4002	VBN3ABPXC002	VBN3ABPX5002	VBN3ABPXD002	VBN3ABPX6402	VBN3ABPX6302	VBN3ABPXB402	VBN3ABPXB302
			0.59	VBN3ACPX4002	VBN3ACPXC002	VBN3ACPX5002	VBN3ACPXD002	VBN3ACPX6402	VBN3ACPX6302	VBN3ACPXB402	VBN3ACPXB302
			1	VBN3AEPX4002	VBN3AEPXC002	VBN3AEPX5002	VBN3AEPXD002	VBN3AEPX6402	VBN3AEPX6302	VBN3AEPXB402	VBN3AEPXB302
			2.4	VBN3AFPX4002	VBN3AFPXC002	VBN3AFPX5002	VBN3AFPXD002	VBN3AFPX6402	VBN3AFPX6302	VBN3AFPXB402	VBN3AFPXB302
			4.3	VBN3AHPX4002	VBN3AHPXC002	VBN3AHPX5002	VBN3AHPXD002	VBN3AHPX6402	VBN3AHPX6302	VBN3AHPXB402	VBN3AHPXB302
			8*	VBN3AJPX4002	VBN3AJPXC002	VBN3AJPX5002	VBN3AJPXD002	VBN3AJPX6402	VBN3AJPX6302	VBN3AJPXB402	VBN3AJPXB302
	3/4"	50	0.4	VBN3BCPX4002	VBN3BCPXC002	VBN3BCPX5002	VBN3BCPXD002	VBN3BCPX6402	VBN3BCPX6302	VBN3BCPXB402	VBN3BCPXB302
			0.66	VBN3BDPX4002	VBN3BDPXC002	VBN3BDPX5002	VBN3BDPXD002	VBN3BDPX6402	VBN3BDPX6302	VBN3BDPXB402	VBN3BDPXB302
			1.3	VBN3BEPX4002	VBN3BEPXC002	VBN3BEPX5002	VBN3BEPXD002	VBN3BEPX6402	VBN3BEPX6302	VBN3BEPXB402	VBN3BEPXB302
			2.4	VBN3BFPX4002	VBN3BFPXC002	VBN3BFPX5002	VBN3BFPXD002	VBN3BFPX6402	VBN3BFPX6302	VBN3BFPXB402	VBN3BFPXB302
			3.8	VBN3BGPX4002	VBN3BGPCX002	VBN3BGPX5002	VBN3BGPXD002	VBN3BGPX6402	VBN3BGPX6302	VBN3BGPXB402	VBN3BGPXB302
			7	VBN3BJPX4002	VBN3BJPXC002	VBN3BJPX5002	VBN3BJPXD002	VBN3BJPX6402	VBN3BJPX6302	VBN3BJPXB402	VBN3BJPXB302
	1"	50	11*	VBN3BKPX4002	VBN3BKPCX002	VBN3BKPX5002	VBN3BKPD002	VBN3BKPX6402	VBN3BKPX6302	VBN3BKPXB402	VBN3BKPXB302
			0.4	VBN3CCPX4002	VBN3CCPXC002	VBN3CCPX5002	VBN3CCPD002	VBN3CCPX6402	VBN3CCPX6302	VBN3CCPXB402	VBN3CCPXB302
			0.65	VBN3CDPX4002	VBN3CDPXC002	VBN3CDPX5002	VBN3CDPD002	VBN3CDPX6402	VBN3CDPX6302	VBN3CDPXB402	VBN3CDPXB302
			1.3	VBN3CEPX4002	VBN3CEPXC002	VBN3CEPX5002	VBN3CEPD002	VBN3CEPX6402	VBN3CEPX6302	VBN3CEPXB402	VBN3CEPXB302
			2.3	VBN3CFPX4002	VBN3CFPXC002	VBN3CFPX5002	VBN3CFPD002	VBN3CFPX6402	VBN3CFPX6302	VBN3CFPXB402	VBN3CFPXB302
			3.5	VBN3CGPX4002	VBN3CGPCX002	VBN3CGPX5002	VBN3CGPD002	VBN3CGPX6402	VBN3CGPX6302	VBN3CGPXB402	VBN3CGPXB302
			4.5	VBN3CHPX4002	VBN3CHPXC002	VBN3CHPX5002	VBN3CHPD002	VBN3CHPX6402	VBN3CHPX6302	VBN3CHPXB402	VBN3CHPXB302
			8.6	VBN3CJPX4002	VBN3CJPXC002	VBN3CJPX5002	VBN3CJPD002	VBN3CJPX6402	VBN3CJPX6302	VBN3CJPXB402	VBN3CJPXB302
			14.9	VBN3CKPX4002	VBN3CKPXC002	VBN3CKPX5002	VBN3CKPD002	VBN3CKPX6402	VBN3CKPX6302	VBN3CKPXB402	VBN3CKPXB302
			22*	VBN3CLPX4002	VBN3CLPXC002	VBN3CLPX5002	VBN3CLPD002	VBN3CLPX6402	VBN3CLPX6302	VBN3CLPXB402	VBN3CLPXB302
			31*	VBN3CMPX4002	VBN3CMPXC002	VBN3CMPX5002	VBN3CMPXD002	VBN3CMPX6402	VBN3CMPX6302	VBN3CMPXB402	VBN3CMPXB302
			1-1/4"	40	4.1	VBN3DHPX4002	VBN3DHPXC002	VBN3DHPX5002	VBN3DHPXD002	VBN3DHPX6402	VBN3DHPX6302
	8.7	VBN3DJPX4002			VBN3DJPCX002	VBN3DJPX5002	VBN3DJPD002	VBN3DJPX6402	VBN3DJPX6302	VBN3DJPXB402	VBN3DJPXB302
	12.7	VBN3DKPX4002			VBN3DKPXC002	VBN3DKPX5002	VBN3DKPD002	VBN3DKPX6402	VBN3DKPX6302	VBN3DKPXB402	VBN3DKPXB302
	19.4*	VBN3DLPX4002			VBN3DLPXC002	VBN3DLPX5002	VBN3DLPXD002	VBN3DLPX6402	VBN3DLPX6302	VBN3DLPXB402	VBN3DLPXB302
	27	VBN3DMPX4002			VBN3DMPXC002	VBN3DMPX5002	VBN3DMPXD002	VBN3DMPX6402	VBN3DMPX6302	VBN3DMPXB402	VBN3DMPXB302
	34*	VBN3DNPX4002			VBN3DNPCX002	VBN3DNPX5002	VBN3DNPD002	VBN3DNPX6402	VBN3DNPX6302	VBN3DNPXB402	VBN3DNPXB302
	1-1/2"	40	4	VBN3EHPX4002	VBN3EHPXC002	VBN3EHPX5002	VBN3EHPXD002	VBN3EHPX6402	VBN3EHPX6302	VBN3EHPXB402	VBN3EHPXB302
			8.3	VBN3EJPX4002	VBN3EJPXC002	VBN3EJPX5002	VBN3EJPD002	VBN3EJPX6402	VBN3EJPX6302	VBN3EJPXB402	VBN3EJPXB302
			13.4	VBN3EKPX4002	VBN3EKPXC002	VBN3EKPX5002	VBN3EKPXD002	VBN3EKPX6402	VBN3EKPX6302	VBN3EKPXB402	VBN3EKPXB302
24			VBN3ELPX4002	VBN3ELPXC002	VBN3ELPX5002	VBN3ELPD002	VBN3ELPX6402	VBN3ELPX6302	VBN3ELPXB402	VBN3ELPXB302	
32*			VBN3EMPX4002	VBN3EMPXC002	VBN3EMPX5002	VBN3EMPXD002	VBN3EMPX6402	VBN3EMPX6302	VBN3EMPXB402	VBN3EMPXB302	
61*			VBN3EPPX4002	VBN3EPPXC002	VBN3EPPX5002	VBN3EPPXD002	VBN3EPPX6402	VBN3EPPX6302	VBN3EPPXB402	VBN3EPPXB302	
2"	40	24	VBN3FLPX4002	VBN3FLPXC002	VBN3FLPX5002	VBN3FLPD002	VBN3FLPX6402	VBN3FLPX6302	VBN3FLPXB402	VBN3FLPXB302	
		38	VBN3FNPX4002	VBN3FNPCX002	VBN3FNPX5002	VBN3FNPD002	VBN3FNPX6402	VBN3FNPX6302	VBN3FNPXB402	VBN3FNPXB302	
		57*	VBN3FPPX4002	VBN3FPPXC002	VBN3FPPX5002	VBN3FPPXD002	VBN3FPPX6402	VBN3FPPX6302	VBN3FPPXB402	VBN3FPPXB302	
		83	VBN3FRPX4002	VBN3FRPXC002	VBN3FRPX5002	VBN3FRPD002	VBN3FRPX6402	VBN3FRPX6302	VBN3FRPXB402	VBN3FRPXB302	
2-1/2"	40	109*	VBN3FTPX4002	VBN3FTPCX002	VBN3FTPX5002	VBN3FTPD002	VBN3FTPX6402	VBN3FTPX6302	VBN3FTPXB402	VBN3FTPXB302	
		38	VBN3GNPX4002	VBN3GNPCX002	VBN3GNPX5002	VBN3GNPD002	VBN3GNPX6402	VBN3GNPX6302	VBN3GNPXB402	VBN3GNPXB302	
		74	VBN3GRPX4002	VBN3GRPXC002	VBN3GRPX5002	VBN3GRPD002	VBN3GRPX6402	VBN3GRPX6302	VBN3GRPXB402	VBN3GRPXB302	
			100*	VBN3GSPX4002	VBN3GSPXC002	VBN3GSPX5002	VBN3GSPXD002	VBN3GSPX6402	VBN3GSPX6302	VBN3GSPXB402	VBN3GSPXB302

* Full port ball. No flow characterizing insert.

PRODUCT SELECTION - VALVES

3-Way NPT Control Ball Valves ½"-2½", NEMA 3R

3-Way

Actuator Features			Fail Safe							
Actuator O.S. Number			MS8105A1030		MS8105A1130		MS4105A1030		MS4105A1130	
Power Supply	Voltage		24 VAC/DC		24 VAC/DC		100-250 VAC		100-250 VAC	
	Frequency		50 / 60 Hz		50 / 60 Hz		50 / 60 Hz		50 / 60 Hz	
	Power		6 VA		6 VA		6 VA		6 VA	
Actuator Torque	(lb.-in.)		44		44		44		44	
Control	(O)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°	
Timing	(drive/spring return, seconds)		45 / 25		45 / 25		45 / 25		45 / 25	
Aux Switch	2 x SPDT Add-on		0		1		0		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)	B-AB Open (FSB)	A-AB Open (FSA)	B-AB Open (FSB)	A-AB Open (FSA)
Normal Position (no signal)			B-AB Open	A-AB Open	B-AB Open	A-AB Open	B-AB Open	A-AB Open	B-AB Open	A-AB Open
Valve Features		Trim	Nickel-Plated Brass		Nickel-Plated Brass		Nickel-Plated Brass		Nickel-Plated Brass	
Valve Size (inches)	Close-off Pressure (psid)	Cv	Short Order Codes							
1/2"	50	0.33	VBN3ABPX7402	VBN3ABPX7302	VBN3ABPXA402	VBN3ABPXA302	VBN3ABPX8402	VBN3ABPX8302	VBN3ABPX9402	VBN3ABPX9302
		0.59	VBN3ACPX7402	VBN3ACPX7302	VBN3ACPXA402	VBN3ACPXA302	VBN3ACPX8402	VBN3ACPX8302	VBN3ACPX9402	VBN3ACPX9302
		1	VBN3AEPX7402	VBN3AEPX7302	VBN3AEPXA402	VBN3AEPXA302	VBN3AEPX8402	VBN3AEPX8302	VBN3AEPX9402	VBN3AEPX9302
		2.4	VBN3AFPX7402	VBN3AFPX7302	VBN3AFPXA402	VBN3AFPXA302	VBN3AFPX8402	VBN3AFPX8302	VBN3AFPX9402	VBN3AFPX9302
		4.3	VBN3AHPX7402	VBN3AHPX7302	VBN3AHPXA402	VBN3AHPXA302	VBN3AHPX8402	VBN3AHPX8302	VBN3AHPX9402	VBN3AHPX9302
3/4"	50	8*	VBN3AJPX7402	VBN3AJPX7302	VBN3AJPXA402	VBN3AJPXA302	VBN3AJPX8402	VBN3AJPX8302	VBN3AJPX9402	VBN3AJPX9302
		0.4	VBN3BCPX7402	VBN3BCPX7302	VBN3BCPXA402	VBN3BCPXA302	VBN3BCPX8402	VBN3BCPX8302	VBN3BCPX9402	VBN3BCPX9302
		0.66	VBN3BDPX7402	VBN3BDPX7302	VBN3BDPXA402	VBN3BDPXA302	VBN3BDPX8402	VBN3BDPX8302	VBN3BDPX9402	VBN3BDPX9302
		1.3	VBN3BEPX7402	VBN3BEPX7302	VBN3BEPXA402	VBN3BEPXA302	VBN3BEPX8402	VBN3BEPX8302	VBN3BEPX9402	VBN3BEPX9302
		2.4	VBN3BFPX7402	VBN3BFPX7302	VBN3BFPXA402	VBN3BFPXA302	VBN3BFPX8402	VBN3BFPX8302	VBN3BFPX9402	VBN3BFPX9302
1"	50	3.8	VBN3BGPX7402	VBN3BGPX7302	VBN3BGPPXA402	VBN3BGPPXA302	VBN3BGPX8402	VBN3BGPX8302	VBN3BGPX9402	VBN3BGPX9302
		7	VBN3BJPX7402	VBN3BJPX7302	VBN3BJPXA402	VBN3BJPXA302	VBN3BJPX8402	VBN3BJPX8302	VBN3BJPX9402	VBN3BJPX9302
		11*	VBN3BKPX7402	VBN3BKPX7302	VBN3BKPPXA402	VBN3BKPPXA302	VBN3BKPX8402	VBN3BKPX8302	VBN3BKPX9402	VBN3BKPX9302
		0.4	VBN3CCPX7402	VBN3CCPX7302	VBN3CCPXA402	VBN3CCPXA302	VBN3CCPX8402	VBN3CCPX8302	VBN3CCPX9402	VBN3CCPX9302
		0.65	VBN3CDPX7402	VBN3CDPX7302	VBN3CDPXA402	VBN3CDPXA302	VBN3CDPX8402	VBN3CDPX8302	VBN3CDPX9402	VBN3CDPX9302
1"	50	1.3	VBN3CEPX7402	VBN3CEPX7302	VBN3CEPXA402	VBN3CEPXA302	VBN3CEPX8402	VBN3CEPX8302	VBN3CEPX9402	VBN3CEPX9302
		2.3	VBN3CFPX7402	VBN3CFPX7302	VBN3CFPXA402	VBN3CFPXA302	VBN3CFPX8402	VBN3CFPX8302	VBN3CFPX9402	VBN3CFPX9302
		3.5	VBN3CGPX7402	VBN3CGPX7302	VBN3CGPXA402	VBN3CGPXA302	VBN3CGPX8402	VBN3CGPX8302	VBN3CGPX9402	VBN3CGPX9302
		4.5	VBN3CHPX7402	VBN3CHPX7302	VBN3CHPXA402	VBN3CHPXA302	VBN3CHPX8402	VBN3CHPX8302	VBN3CHPX9402	VBN3CHPX9302
		8.6	VBN3CJPX7402	VBN3CJPX7302	VBN3CJPPXA402	VBN3CJPPXA302	VBN3CJPX8402	VBN3CJPX8302	VBN3CJPX9402	VBN3CJPX9302
1-1/4"	40	14.9	VBN3CKPX7402	VBN3CKPX7302	VBN3CKPXA402	VBN3CKPXA302	VBN3CKPX8402	VBN3CKPX8302	VBN3CKPX9402	VBN3CKPX9302
		22*	VBN3CLPX7402	VBN3CLPX7302	VBN3CLPXA402	VBN3CLPXA302	VBN3CLPX8402	VBN3CLPX8302	VBN3CLPX9402	VBN3CLPX9302
		31*	VBN3CMPX7402	VBN3CMPX7302	VBN3CMPXA402	VBN3CMPXA302	VBN3CMPX8402	VBN3CMPX8302	VBN3CMPX9402	VBN3CMPX9302
		4.1	VBN3DHPX7402	VBN3DHPX7302	VBN3DHPXA402	VBN3DHPXA302	VBN3DHPX8402	VBN3DHPX8302	VBN3DHPX9402	VBN3DHPX9302
		8.7	VBN3DJPX7402	VBN3DJPX7302	VBN3DJPPXA402	VBN3DJPPXA302	VBN3DJPX8402	VBN3DJPX8302	VBN3DJPX9402	VBN3DJPX9302
1-1/2"	40	12.7	VBN3DKPX7402	VBN3DKPX7302	VBN3DKPXA402	VBN3DKPXA302	VBN3DKPX8402	VBN3DKPX8302	VBN3DKPX9402	VBN3DKPX9302
		19.4*	VBN3DLPX7402	VBN3DLPX7302	VBN3DLPXA402	VBN3DLPXA302	VBN3DLPX8402	VBN3DLPX8302	VBN3DLPX9402	VBN3DLPX9302
		27	VBN3DMPX7402	VBN3DMPX7302	VBN3DMPXA402	VBN3DMPXA302	VBN3DMPX8402	VBN3DMPX8302	VBN3DMPX9402	VBN3DMPX9302
		34*	VBN3DNPX7402	VBN3DNPX7302	VBN3DNPXA402	VBN3DNPXA302	VBN3DNPX8402	VBN3DNPX8302	VBN3DNPX9402	VBN3DNPX9302
		4	VBN3EHPX7402	VBN3EHPX7302	VBN3EHPXA402	VBN3EHPXA302	VBN3EHPX8402	VBN3EHPX8302	VBN3EHPX9402	VBN3EHPX9302
2"	40	8.3	VBN3EJPX7402	VBN3EJPX7302	VBN3EJPPXA402	VBN3EJPPXA302	VBN3EJPX8402	VBN3EJPX8302	VBN3EJPX9402	VBN3EJPX9302
		13.4	VBN3EKPX7402	VBN3EKPX7302	VBN3EKPXA402	VBN3EKPXA302	VBN3EKPX8402	VBN3EKPX8302	VBN3EKPX9402	VBN3EKPX9302
		24	VBN3ELPX7402	VBN3ELPX7302	VBN3ELPXA402	VBN3ELPXA302	VBN3ELPX8402	VBN3ELPX8302	VBN3ELPX9402	VBN3ELPX9302
		32*	VBN3EMPX7402	VBN3EMPX7302	VBN3EMPXA402	VBN3EMPXA302	VBN3EMPX8402	VBN3EMPX8302	VBN3EMPX9402	VBN3EMPX9302
		61*	VBN3EPPX7402	VBN3EPPX7302	VBN3EPPXA402	VBN3EPPXA302	VBN3EPPX8402	VBN3EPPX8302	VBN3EPPX9402	VBN3EPPX9302
2-1/2"	40	24	VBN3FLPX7402	VBN3FLPX7302	VBN3FLPXA402	VBN3FLPXA302	VBN3FLPX8402	VBN3FLPX8302	VBN3FLPX9402	VBN3FLPX9302
		38	VBN3FNPX7402	VBN3FNPX7302	VBN3FNPXA402	VBN3FNPXA302	VBN3FNPX8402	VBN3FNPX8302	VBN3FNPX9402	VBN3FNPX9302
		57*	VBN3FPPX7402	VBN3FPPX7302	VBN3FPPXA402	VBN3FPPXA302	VBN3FPPX8402	VBN3FPPX8302	VBN3FPPX9402	VBN3FPPX9302
		83	VBN3FRPX7402	VBN3FRPX7302	VBN3FRPXA402	VBN3FRPXA302	VBN3FRPX8402	VBN3FRPX8302	VBN3FRPX9402	VBN3FRPX9302
		109*	VBN3FTPX7402	VBN3FTPX7302	VBN3FTPXA402	VBN3FTPXA302	VBN3FTPX8402	VBN3FTPX8302	VBN3FTPX9402	VBN3FTPX9302
2-1/2"	40	38	VBN3GNPX7402	VBN3GNPX7302	VBN3GNPXA402	VBN3GNPXA302	VBN3GNPX8402	VBN3GNPX8302	VBN3GNPX9402	VBN3GNPX9302
		74	VBN3GRPX7402	VBN3GRPX7302	VBN3GRPXA402	VBN3GRPXA302	VBN3GRPX8402	VBN3GRPX8302	VBN3GRPX9402	VBN3GRPX9302
		100*	VBN3GSPX7402	VBN3GSPX7302	VBN3GSPXA402	VBN3GSPXA302	VBN3GSPX8402	VBN3GSPX8302	VBN3GSPX9402	VBN3GSPX9302

* Full port ball. No flow characterizing insert.

PRODUCT SELECTION - VALVES

2-Way Flanged Control Ball Valves 4"-6", NEMA 2+3R

**5-YEAR
LIMITED
WARRANTY**

Actuator Features		Non Fail Safe		Fail Safe		Valve Only
Actuator O.S. Number		MN6110A1003 4 to 5 in.	MN7510A2001 4 to 5 in.	MS8110A1008 4 to 5 in.	MS7510A2008 4 to 5 in.	N/A
		MN6134A1003 6 in.	MN7234A2008 6 in.	MS8120A1007 6 in.	MS7520A2007 6 in.	
Power Supply	Voltage	24 Vac	24 Vac	24 Vac	24 Vac	
	Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	
	Power	5 / 9 VA	5 / 9 VA	30 / 40 VA	14 / 16 VA	
Actuator Torque	(lb.-in.)	88/300	88/300	88/175	88/175	
Control	(O)2-10 Vdc		•		•	
	4-20 mA (external 500 Ohm Resistor)		•		•	
	Floating	•	•**		•	
	Two-Position SPDT	•	•**		•	
	Two-Position SPST	•	•**	•	•	
Fail Safe Action	(field configurable)	Stay in Place	Stay in Place	Closed	Closed	
Normal Position (no signal)	(field configurable)	Stay in Place	Closed	Closed	Closed	
Actuator Stroke	(degrees)	95°	95°	95°	95°	
Timing	(drive/spring return, seconds)	95	95	45/20	90/20	
Aux Switch	2 x SPDT Add-on	SW2-US	SW2-US	SW2-US	SW2-US	
Feedback	2-10 Vdc Built In		•		•	
Valve Features		Trim	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel

Valve Size (inches)	Close-off Pressure (psid)	Cv*	Valve O.S. Number				
			NEMA 2 Actuator				
4"	70	91	VBF2JS1SOA	VBF2JS1SOB	VBF2JS1SOC	VBF2JS1SOD	VBF2JS1SOX
		118	VBF2JT1SOA	VBF2JT1SOB	VBF2JT1SOC	VBF2JT1SOD	VBF2JT1SOX
		152	VBF2JU1SOA	VBF2JU1SOB	VBF2JU1SOC	VBF2JU1SOD	VBF2JU1SOX
		197	VBF2J11SOA	VBF2J11SOB	VBF2J11SOC	VBF2J11SOD	VBF2J11SOX
		254	VBF2J21SOA	VBF2J21SOB	VBF2J21SOC	VBF2J21SOD	VBF2J21SOX
5"	70	144	VBF2KU1SOA	VBF2KU1SOB	VBF2KU1SOC	VBF2KU1SOD	VBF2KU1SOX
		185	VBF2K11SOA	VBF2K11SOB	VBF2K11SOC	VBF2K11SOD	VBF2K11SOX
		240	VBF2K21SOA	VBF2K21SOB	VBF2K21SOC	VBF2K21SOD	VBF2K21SOX
		309	VBF2K31SOA	VBF2K31SOB	VBF2K31SOC	VBF2K31SOD	VBF2K31SOX
		400	VBF2K41SOA	VBF2K41SOB	VBF2K41SOC	—	VBF2K41SOX
6"	70	208	VBF2L11SOA	VBF2L11SOB	VBF2L11SOC	VBF2L11SOD	VBF2L11SOX
		268	VBF2L21SOA	VBF2L21SOB	VBF2L21SOC	VBF2L21SOD	VBF2L21SOX
		346	VBF2L41SOA	VBF2L41SOB	VBF2L41SOC	—	VBF2L41SOX
		441	VBF2L51SOA	VBF2L51SOB	VBF2L51SOC	—	VBF2L51SOX
		577	VBF2L61SOA	VBF2L61SOB	VBF2L61SOC	—	VBF2L61SOX
		650	VBF2L71SOA	VBF2L71SOB	VBF2L71SOC	—	VBF2L71SOX
			NEMA 3R Actuator				
4"	70	91	VBF2JC1SRA	VBF2JC1SRB	VBF2JC1SRC	VBF2JC1SRD	—
		118	VBF2JT1SRA	VBF2JT1SRB	VBF2JT1SRC	VBF2JT1SRD	—
		152	VBF2JU1SRA	VBF2JU1SRB	VBF2JU1SRC	VBF2JU1SRD	—
		197	VBF2J11SRA	VBF2J11SRB	VBF2J11SRC	VBF2J11SRD	—
		254	VBF2J21SRA	VBF2J21SRB	VBF2J21SRC	VBF2J21SRD	—
5"	70	144	VBF2KU1SRA	VBF2KU1SRB	VBF2KU1SRC	VBF2KU1SRD	—
		185	VBF2K11SRA	VBF2K11SRB	VBF2K11SRC	VBF2K11SRD	—
		240	VBF2K21SRA	VBF2K21SRB	VBF2K21SRC	VBF2K21SRD	—
		309	VBF2K31SRA	VBF2K31SRB	VBF2K31SRC	VBF2K31SRD	—
		400	VBF2K41SRA	VBF2K41SRB	VBF2K41SRC	—	—
6"	70	208	VBF2L11SRA	VBF2L11SRB	VBF2L11SRC	VBF2L11SRD	—
		268	VBF2L21SRA	VBF2L21SRB	VBF2L21SRC	VBF2L21SRD	—
		346	VBF2L41SRA	VBF2L41SRB	VBF2L41SRC	—	—
		441	VBF2L51SRA	VBF2L51SRB	VBF2L51SRC	—	—
		577	VBF2L61SRA	VBF2L61SRB	VBF2L61SRC	—	—
		650	VBF2L71SRA	VBF2L71SRB	VBF2L71SRC	—	—



2-Way

PRODUCT SELECTION - VALVES

3-Way Flanged Control Ball Valves 4"-6", NEMA 2+3R

**5-YEAR
LIMITED
WARRANTY**

Actuator Features		Non Fail Safe		Fail Safe		Valve Only
Actuator O.S. Number		MN6110A1003 4 to 5 in.	MN7510A2001 4 to 5 in.	MS8110A1008 4 to 5 in.	MS7510A2008 4 to 5 in.	N/A
		MN6134A1003 6 in.	MN7234A2008 6 in.	MS8120A1007 6 in.	MS7520A2007 6 in.	
Power Supply	Voltage	24 Vac	24 Vac	24 Vac	24 Vac	
	Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	
	Power	5 / 9 VA	5 / 9 VA	30 / 40 VA	14 / 16 VA	
Actuator Torque	(lb.-in.)	88/300	88/300	88/175	88/175	
Control	(O)2-10 Vdc		•		•	
	4-20 mA (external 500 Ohm Resistor)		•		•	
	Floating	•	•**		•	
	Two-Position SPDT	•	•**		•	
	Two-Position SPST	•	•**	•	•	
Fail Safe Action	(field configurable)	Stay in Place	Stay in Place	A-AB Closed	A-AB Closed	
Normal Position (no signal)	(field configurable)	Stay in Place	A-AB Closed	A-AB Closed	A-AB Closed	
Actuator Stroke	(degrees)	95°	95°	95°	95°	
Timing	(drive/spring return, seconds)	95	95	45/20	90/20	
Aux Switch	2 x SPDT Add-on	SW2-US	SW2-US	SW2-US	SW2-US	
Feedback	2-10 Vdc Built In		•		•	
Valve Features	Trim	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel

Valve Size (inches)	Close-off Pressure (psid)	Cv*	Valve O.S. Number				
			NEMA 2 Actuator				
4"	70	91	VBFB3JS1SOA	VBFB3JS1SOB	VBFB3JS1SOC	VBFB3JS1SOD	VBFB3JS1SOX
		118	VBFB3JT1SOA	VBFB3JT1SOB	VBFB3JT1SOC	VBFB3JT1SOD	VBFB3JT1SOX
		152	VBFB3JU1SOA	VBFB3JU1SOB	VBFB3JU1SOC	VBFB3JU1SOD	VBFB3JU1SOX
		197	VBFB3J11SOA	VBFB3J11SOB	VBFB3J11SOC	VBFB3J11SOD	VBFB3J11SOX
		254	VBFB3J21SOA	VBFB3J21SOB	VBFB3J21SOC	VBFB3J21SOD	VBFB3J21SOX
		327	VBFB3J31SOA	VBFB3J31SOB	VBFB3J31SOC	VBFB3J31SOD	VBFB3J31SOX
5"	70	144	VBFB3KU1SOA	VBFB3KU1SOB	VBFB3KU1SOC	VBFB3KU1SOD	VBFB3KU1SOX
		185	VBFB3K11SOA	VBFB3K11SOB	VBFB3K11SOC	VBFB3K11SOD	VBFB3K11SO
		240	VBFB3K21SOA	VBFB3K21SOB	VBFB3K21SOC	VBFB3K21SOD	VBFB3K21SOX
		309	VBFB3K31SOA	VBFB3K31SOB	VBFB3K31SOC	VBFB3K31SOD	VBFB3K31SOX
		400	VBFB3K41SOA	VBFB3K41SOB	VBFB3K41SOC	—	VBFB3K41SOX
6"	70	208	VBFB3L11SOA	VBFB3L11SOB	VBFB3L11SOC	VBFB3L11SOD	VBFB3L11SOX
		268	VBFB3L21SOA	VBFB3L21SOB	VBFB3L21SOC	VBFB3L21SOD	VBFB3L21SOX
		346	VBFB3L41SOA	VBFB3L41SOB	VBFB3L41SOC	—	VBFB3L41SOX
		441	VBFB3L51SOA	VBFB3L51SOB	VBFB3L51SOC	—	VBFB3L51SOX
		577	VBFB3L61SOA	VBFB3L61SOB	VBFB3L61SOC	—	VBFB3L61SOX
		650	VBFB3L71SOA	VBFB3L71SOB	VBFB3L71SOC	—	VBFB3L71SOX
			NEMA 3R Actuator				
4"	70	91	VBFB3JS1SRA	VBFB3JS1SRB	VBFB3JS1SRC	VBFB3JS1SRD	—
		118	VBFB3JT1SRA	VBFB3JT1SRB	VBFB3JT1SRC	VBFB3JT1SRD	—
		152	VBFB3JU1SRA	VBFB3JU1SRB	VBFB3JU1SRC	VBFB3JU1SRD	—
		197	VBFB3J11SRA	VBFB3J11SRB	VBFB3J11SRC	VBFB3J11SRD	—
		254	VBFB3J21SRA	VBFB3J21SRB	VBFB3J21SRC	VBFB3J21SRD	—
		327	VBFB3J31SRA	VBFB3J31SRB	VBFB3J31SRC	VBFB3J31SRD	—
5"	70	144	VBFB3KU1SRA	VBFB3KU1SRB	VBFB3KU1SRC	VBFB3KU1SRD	—
		185	VBFB3K11SRA	VBFB3K11SRB	VBFB3K11SRC	VBFB3K11SRD	—
		240	VBFB3K21SRA	VBFB3K21SRB	VBFB3K21SRC	VBFB3K21SRD	—
		309	VBFB3K31SRA	VBFB3K31SRB	VBFB3K31SRC	VBFB3K31SRD	—
		400	VBFB3K41SRA	VBFB3K41SRB	VBFB3K41SRC	—	—
6"	70	208	VBFB3L11SRA	VBFB3L11SRB	VBFB3L11SRC	VBFB3L11SRD	—
		268	VBFB3L21SRA	VBFB3L21SRB	VBFB3L21SRC	VBFB3L21SRD	—
		346	VBFB3L41SRA	VBFB3L41SRB	VBFB3L41SRC	—	—
		441	VBFB3L51SRA	VBFB3L51SRB	VBFB3L51SRC	—	—
		577	VBFB3L61SRA	VBFB3L61SRB	VBFB3L61SRC	—	—
		650	VBFB3L71SRA	VBFB3L71SRB	VBFB3L71SRC	—	—

* Maximum flow 700 gpm
**4 and 5 inch valves only.

Honeywell

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	24 Vac	24 Vac	24 Vac	24 Vac	24 Vac
	Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	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		
	2 x SPDT Add-On					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-Way	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	70	70
	5"	250	On/Off, Mod	240 psig @ 250°F	Stainless Steel	VBF5011A1882			70	70	70	70	70
	6"	360	On/Off, Mod	240 psig @ 250°F	Stainless Steel	VBF5011A1916					70*	70	70
3-Way	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	70	70
	4"	160	Mixing, Diverting	240 psig @ 250°F	Stainless Steel	VBF5013B1029			70	70	70	70	70
	5"	250	Mixing, Diverting	240 psig @ 250°F	Stainless Steel	VBF5013B1037			70	70	70	70	70
	6"	360	Mixing, Diverting	240 psig @ 250°F	Stainless Steel	VBF5013B1045					70*	70	70

* 2-position only

PRODUCT SELECTION - VALVES

Flanged Control Ball Valves 2½" – 6"



**5-YEAR
LIMITED
WARRANTY**

Actuator Features		Fail Safe								
Actuator O.S. Number		MS7505A2030 MS7505A2130	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
Timing	(seconds)	90	45	45	90	45	45	90	45	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
	2 x SPDT Add-On				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-Way	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
	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
3-Way	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
	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

NOTES

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)



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

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buildingcontrols.honeywell.com

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