

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

Common Features

- Max static pressure 360 psi (250°F)
 - Medium: Water/glycol solutions up to 50%. Use globe valves for steam control.
 - Fluid temperature range: -22 to +250°F
 - Spring return actuators field-configurable for A-port normally open or normally closed fail safe.
- VBN2 (Two-way)**
- Equal % flow insert. Largest Cv rating in each valve size is full port, as noted
 - Nickel-chrome plated brass or 316 stainless steel ball and stem
 - ANSI class IV leakage (0.01% of Cv)



2-Way

Actuator Features			Non-fail Safe				Valve Only		
Actuator O.S. Number	MN6105A1011	MN6105A1011	MN7505A2001	MN7505A2001	N/A	N/A			
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 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			•	•				
Fail Safe Action		Stay in Place	Stay in Place	Stay in Place	Stay in Place				
Normal Position (no signal)		Closed	Closed	Closed	Closed				
Actuator Stroke	(degrees)	95° ± 3°	95° ± 3°	95° ± 3°	95° ± 3°				
Timing	(drive/spring return, seconds)	95	95	95	95				
Aux Switch	2 x SPDT Add-on	SSW2-1M	SSW2-1M	SSW2-1M	SSW2-1M				
Feedback	2-10 Vdc Built-in	-	-	•	•				
Valve Features	Trim	Nickel-Plated Brass	Stainless Steel	Nickel-Plated Brass	Stainless Steel	Nickel-Plated Brass	Stainless Steel		
Valve Size (inches)	Cv	Close-off Pressure (psid)	Short Order Codes						
1/2"	0.38	130	VBN2ABPX4000	VBN2ABSX4000	VBN2ABPX5000	VBN2ABSX5000	VBN2ABPX0000	VBN2ABSX0000	
	0.68		VBN2ADPX4000	VBN2ADSX4000	VBN2ADPX5000	VBN2ADSX5000	VBN2ADPX0000	VBN2ADSX0000	
	1.3		VBN2AEPX4000	VBN2AESX4000	VBN2AEPX5000	VBN2AESX5000	VBN2AEPX0000	VBN2AESX0000	
	2		VBN2AFPX4000	VBN2AFSX4000	VBN2AFPX5000	VBN2AFSX5000	VBN2AFPX0000	VBN2AFSX0000	
	2.6		VBN2AGPX4000	VBN2AGSX4000	VBN2AGPX5000	VBN2AGSX5000	VBN2AGPX0000	VBN2AGSX0000	
	4.7		VBN2AHPX4000	VBN2AHSX4000	VBN2AHPX5000	VBN2AHSX5000	VBN2AHPX0000	VBN2AHSX0000	
	8		VBN2AJPX4000	VBN2JJSX4000	VBN2AJPX5000	VBN2JJSX5000	VBN2AJPX0000	VBN2JJSX0000	
11.7*	VBN2AKPX4000		VBN2AKSX4000	VBN2AKPX5000	VBN2AKSX5000	VBN2AKPX0000	VBN2AKSX0000		
0.31	VBN2BPPX4000		VBN2BBSX4000	VBN2BPPX5000	VBN2BBSX5000	VBN2BPPX0000	VBN2BBSX0000		
0.63	VBN2BDPX4000		VBN2BDSX4000	VBN2BDPX5000	VBN2BDSX5000	VBN2BDPX0000	VBN2BDSX0000		
1.2	VBN2BEPX4000		VBN2BESX4000	VBN2BEPX5000	VBN2BESX5000	VBN2BEPX0000	VBN2BESX0000		
2.5	VBN2BGPX4000		VBN2BGSX4000	VBN2BGPX5000	VBN2BGSX5000	VBN2BGPX0000	VBN2BGSX0000		
4.3	VBN2BHPX4000		VBN2BHSX4000	VBN2BHPX5000	VBN2BHSX5000	VBN2BHPX0000	VBN2BHSX0000		
7.4	VBN2BJPX4000		VBN2BJSX4000	VBN2BJPX5000	VBN2BJSX5000	VBN2BJPX0000	VBN2BJSX0000		
10.1	VBN2BKPX4000	VBN2BKSX4000	VBN2BKPX5000	VBN2BKSX5000	VBN2BKPX0000	VBN2BKSX0000			
14.7*	VBN2BLPX4000	VBN2BLSX4000	VBN2BLPX5000	VBN2BLSX5000	VBN2BLPX0000	VBN2BLSX0000			
29*	VBN2BMPX4000	VBN2BMSX4000	VBN2BMPX5000	VBN2BMSX5000	VBN2BMPX0000	VBN2BMSX0000			
1"	4.4	VBN2CHPX4000	VBN2CHSX4000	VBN2CHPX5000	VBN2CHSX5000	VBN2CHPX0000	VBN2CHSX0000		
	9	VBN2CJPX4000	VBN2CJSX4000	VBN2CJPX5000	VBN2CJSX5000	VBN2CJPX0000	VBN2CJSX0000		
	15.3	VBN2CLPX4000	VBN2CLSX4000	VBN2CLPX5000	VBN2CLSX5000	VBN2CLPX0000	VBN2CLSX0000		
	26	VBN2CMPX4000	VBN2CMSX4000	VBN2CMPX5000	VBN2CMSX5000	VBN2CMPX0000	VBN2CMSX0000		
	44*	VBN2CNPX4000	VBN2CNSX4000	VBN2CNPX5000	VBN2CNSX5000	VBN2CNPX0000	VBN2CNSX0000		
	54*	VBN2CPPX4000	VBN2CPSX4000	VBN2CPPX5000	VBN2CPSX5000	VBN2CPPX0000	VBN2CPSX0000		
	4.4	VBN2DHPX4000	VBN2DHSX4000	VBN2DHPX5000	VBN2DHSX5000	VBN2DHPX0000	VBN2DHSX0000		
1-1/4"	8.3	VBN2DJPX4000	VBN2DJSX4000	VBN2DJPX5000	VBN2DJSX5000	VBN2DJPX0000	VBN2DJSX0000		
	14.9	VBN2DKPX4000	VBN2DKSX4000	VBN2DKPX5000	VBN2DKSX5000	VBN2DKPX0000	VBN2DKSX0000		
	25	VBN2DLPX4000	VBN2DLSX4000	VBN2DLPX5000	VBN2DLSX5000	VBN2DLPX0000	VBN2DLSX0000		
	37	VBN2DMPX4000	VBN2DMSX4000	VBN2DMPX5000	VBN2DMSX5000	VBN2DMPX0000	VBN2DMSX0000		
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	102*	VBN2DSPX4000	VBN2DSSX4000	VBN2DSPX5000	VBN2DSSX5000	VBN2DSPX0000	VBN2DSSX0000		
	23	VBN2ELPX4000	VBN2ELSX4000	VBN2ELPX5000	VBN2ELSX5000	VBN2ELPX0000	VBN2ELSX0000		
1-1/2"	30	VBN2EMPX4000	VBN2EMSX4000	VBN2EMPX5000	VBN2EMSX5000	VBN2EMPX0000	VBN2EMSX0000		
	41	VBN2ENPX4000	VBN2ENSX4000	VBN2ENPX5000	VBN2ENSX5000	VBN2ENPX0000	VBN2ENSX0000		
	74*	VBN2ERPX4000	VBN2ERSX4000	VBN2ERPX5000	VBN2ERSX5000	VBN2ERPX0000	VBN2ERSX0000		
	172*	VBN2E1PX4000	VBN2E1SX4000	VBN2E1PX5000	VBN2E1SX5000	VBN2E1PX0000	VBN2E1SX0000		
	42	VBN2FNPX4000	VBN2FNSX4000	VBN2FNPX5000	VBN2FNSX5000	VBN2FNPX0000	VBN2FNSX0000		
	57	VBN2FPPX4000	VBN2FPSX4000	VBN2FPPX5000	VBN2FPSX5000	VBN2FPPX0000	VBN2FPSX0000		
	71	VBN2FRPX4000	VBN2FRSX4000	VBN2FRPX5000	VBN2FRSX5000	VBN2FRPX0000	VBN2FRSX0000		
2"	100	VBN2FSPX4000	VBN2FSSX4000	VBN2FSPX5000	VBN2FSSX5000	VBN2FSPX0000	VBN2FSSX0000		
	108*	VBN2FTPX4000	VBN2FTSX4000	VBN2FTPX5000	VBN2FTSX5000	VBN2FTPX0000	VBN2FTSX0000		
	210	VBN2F1PX4000	VBN2F1SX4000	VBN2F1PX5000	VBN2F1SX5000	VBN2F1PX0000	VBN2F1SX0000		
	266*	VBN2F2PX4000	VBN2F2SX4000	VBN2F2PX5000	VBN2F2SX5000	VBN2F2PX0000	VBN2F2SX0000		
	45	VBN2GNPX4000	VBN2GNSX4000	VBN2GNPX5000	VBN2GNSX5000	VBN2GNPX0000	VBN2GNSX0000		
	55	VBN2GPPX4000	VBN2GPSX4000	VBN2GPPX5000	VBN2GPSX5000	VBN2GPPX0000	VBN2GPSX0000		
	72	VBN2GRPX4000	VBN2GRSX4000	VBN2GRPX5000	VBN2GRSX5000	VBN2GRPX0000	VBN2GRSX0000		
2-1/2"	101	VBN2GSPX4000	VBN2GSSX4000	VBN2GSPX5000	VBN2GSSX5000	VBN2GSPX0000	VBN2GSSX0000		
	162	VBN2GUPX4000	VBN2GUSX4000	VBN2GUPX5000	VBN2GUSX5000	VBN2GUPX0000	VBN2GUSX0000		
	202*	VBN2G1PX4000	VBN2G1SX4000	VBN2G1PX5000	VBN2G1SX5000	VBN2G1PX0000	VBN2G1SX0000		
	49	VBN2HNPX4000	VBN2HNSX4000	VBN2HNPX5000	VBN2HNSX5000	VBN2HNPX0000	VBN2HNSX0000		
	63	VBN2HPPX4000	VBN2HPSX4000	VBN2HPPX5000	VBN2HPSX5000	VBN2HPPX0000	VBN2HPSX0000		
	82	VBN2HRPX4000	VBN2HRSX4000	VBN2HRPX5000	VBN2HRSX5000	VBN2HRPX0000	VBN2HRSX0000		
	124	VBN2HTPX4000	VBN2HTSX4000	VBN2HTPX5000	VBN2HTSX5000	VBN2HTPX0000	VBN2HTSX0000		
3"	145*	VBN2HUPX4000	VBN2HUSX4000	VBN2HUPX5000	VBN2HUSX5000	VBN2HUPX0000	VBN2HUSX0000		

* Full port ball. No flow characterizing insert.

Actuator Features			Fail Safe							
Actuator O.S. Number	MS8105A1030	MS8105A1030	MS8105A1030	MS8105A1030	MS7505A2030	MS7505A2030	MS7505A2030	MS7505A2030		
Power Supply	Voltage	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		
Actuator Torque	Power	8VA	8VA	8VA	8VA	7.5 VA	7.5 VA	7.5 VA		
	(lb.-in.)	44	44	44	44	44	44	44		
Control	(0)2-10 Vdc					•	•	•		
	4-20 mA (external 500 Ohm Resistor)					•	•	•		
	Floating					•	•	•		
	Two-Position SPDT					•	•	•		
	Two-Position SPST	•	•	•	•	•	•	•		
Fail Safe Action	Closed	Open	Closed	Open	Closed	Open	Closed	Open		
Normal Position (no signal)	Closed	Open	Closed	Open	Closed	Open	Closed	Open		
Actuator Stroke	(degrees)	95° ± 3°	95° ± 3°	95° ± 3°	95° ± 3°	95° ± 3°	95° ± 3°	95° ± 3°		
Timing	(drive/spring return, seconds)	45/25	45/25	45/25	45/25	45/25	45/25	45/25		
Aux Switch	2 x SPDT Add-on									
Feedback	2-10 Vdc Built In					•	•	•		
Valve Features	Trim	Nickel-Plated Brass	Nickel-Plated Brass	Stainless Steel	Stainless Steel	Nickel-Plated Brass	Nickel-Plated Brass	Stainless Steel		
Valve Size (Inches)	Cv	Close-off Pressure (psid)	Short Order Codes							
			1/2"	0.38	130	VBN2ABPX7200	VBN2ABPX7100	VBN2ABSX7200	VBN2ABSX7100	VBN2ABPX6200
	0.68		VBN2ADPX7200	VBN2ADPX7100	VBN2ADSX7200	VBN2ADSX7100	VBN2ADPX6200	VBN2ADPX6100	VBN2ADSX6200	VBN2ADSX6100
	1.3		VBN2AEPX7200	VBN2AEPX7100	VBN2AESX7200	VBN2AESX7100	VBN2AEPX6200	VBN2AEPX6100	VBN2AESX6200	VBN2AESX6100
	2		VBN2AFPX7200	VBN2AFPX7100	VBN2AFSX7200	VBN2AFSX7100	VBN2AFPX6200	VBN2AFPX6100	VBN2AFSX6200	VBN2AFSX6100
	2.6		VBN2AGPX7200	VBN2AGPX7100	VBN2AGSX7200	VBN2AGSX7100	VBN2AGPX6200	VBN2AGPX6100	VBN2AGSX6200	VBN2AGSX6100
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3/4"	0.31		VBN2BBPX7200	VBN2BBPX7100	VBN2BBSX7200	VBN2BBSX7100	VBN2BBPX6200	VBN2BBPX6100	VBN2BBSX6200	VBN2BBSX6100
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	14.7*		VBN2BLPX7200	VBN2BLPX7100	VBN2BLSX7200	VBN2BLSX7100	VBN2BLPX6200	VBN2BLPX6100	VBN2BLSX6200	VBN2BLSX6100
1"	29*		VBN2BMPX7200	VBN2BMPX7100	VBN2BMSX7200	VBN2BMSX7100	VBN2BMPX6200	VBN2BMPX6100	VBN2BMSX6200	VBN2BMSX6100
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	4.4		VBN2DHPX7200	VBN2DHPX7100	VBN2DHSX7200	VBN2DHSX7100	VBN2DHPX6200	VBN2DHPX6100	VBN2DHSX6200	VBN2DHSX6100
1-1/4"	8.3		VBN2DJPX7200	VBN2DJPX7100	VBN2DJSX7200	VBN2DJSX7100	VBN2DJPX6200	VBN2DJPX6100	VBN2DJSX6200	VBN2DJSX6100
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1-1/2"	41		VBN2ENPX7200	VBN2ENPX7100	VBN2ENSX7200	VBN2ENSX7100	VBN2ENPX6200	VBN2ENPX6100	VBN2ENSX6200	VBN2ENSX6100
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	100		VBN2FSPX7200	VBN2FSPX7100	VBN2FSSX7200	VBN2FSSX7100	VBN2FSPX6200	VBN2FSPX6100	VBN2FSSX6200	VBN2FSSX6100
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2"	210		VBN2F1PX7200	VBN2F1PX7100	VBN2F1SX7200	VBN2F1SX7100	VBN2F1PX6200	VBN2F1PX6100	VBN2F1SX6200	VBN2F1SX6100
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	101		VBN2GSPX7200	VBN2GSPX7100	VBN2GSSX7200	VBN2GSSX7100	VBN2GSPX6200	VBN2GSPX6100	VBN2GSSX6200	VBN2GSSX6100
	162		VBN2GUPX7200	VBN2GUPX7100	VBN2GUSX7200	VBN2GUSX7100	VBN2GUPX6200	VBN2GUPX6100	VBN2GUSX6200	VBN2GUSX6100
	202*		VBN2G1PX7200	VBN2G1PX7100	VBN2G1SX7200	VBN2G1SX7100	VBN2G1PX6200	VBN2G1PX6100	VBN2G1SX6200	VBN2G1SX6100
3"	49		VBN2HNPX7200	VBN2HNPX7100	VBN2HNSX7200	VBN2HNSX7100	VBN2HNPX6200	VBN2HNPX6100	VBN2HNSX6200	VBN2HNSX6100
	63		VBN2HPPX7200	VBN2HPPX7100	VBN2HPSX7200	VBN2HPSX7100	VBN2HPPX6200	VBN2HPPX6100	VBN2HPSX6200	VBN2HPSX6100
	82		VBN2HRPX7200	VBN2HRPX7100	VBN2HRSX7200	VBN2HRSX7100	VBN2HRPX6200	VBN2HRPX6100	VBN2HRSX6200	VBN2HRSX6100
	124		VBN2HTPX7200	VBN2HTPX7100	VBN2HTSX7200	VBN2HTSX7100	VBN2HTPX6200	VBN2HTPX6100	VBN2HTSX6200	VBN2HTSX6100
	145*		VBN2HUPX7200	VBN2HUPX7100	VBN2HUSX7200	VBN2HUSX7100	VBN2HUPX6200	VBN2HUPX6100	VBN2HUSX6200	VBN2HUSX6100

* Full port ball. No flow characterizing insert.