



# SERIES V - SERIES 1000-X

## INDUSTRIAL MODULATING ELECTRIC ACTUATORS

### 1" - 6" HIGH PERFORMANCE SEGMENTED BALL VALVES

REV. B

### SERIES V BALL VALVE

**SERVICE:** Chilled/Hot Water - 50% Glycol  
Steam: 125 psi

**FLOW CHARACTERISTIC:** Equal %

**SIZES:** 1" - 6"

**BODY:** Carbon Steel / Stainless Steel Optional

**BALL:** 304SS

**SHAFT:** 304SS

**SEAT:** TFM 1700

**O-RING:** ALFAS

**BEARING:** PEEK

**TEMPERATURE RANGE:** -20°F to 400°F

**CLOSE OFF:** 250PSI

**END CONNECTIONS:**

1" - 2" : NPT/Wafer ANSI 150/300

3" - 6" : ANSI 150 Flanged or ANSI 300 Flanged



### SERIES 1000-X MODULATING ACTUATOR

**MOTOR:** 120V or 24V Single Phase - 60Hz

**TORQUE RANGE:** 443 - 885 in/lbs

**HOUSING:** Die Cast Aluminum - NEMA 4

**CONTROL SIGNAL:** 4-20mA or 2-10VDC

**FEEDBACK:** 4-20mA

**RESOLUTION:** 80 Steps (4-20mA) 200 Steps (2-10VDC)

**PROTECTION:** Thermal Overload Protection

**POSITION INDICATOR:** Mechanical Dome

**CONDUIT ENTRIES:** 2 x 1/2" NPT

**POWER GEARS:** Alloy Steel and Aluminum Bronze

**BEARINGS:** Alloy Steel Sleeve and Ball Bearings

**CERTIFICATIONS:** CE, NRTL, NEMA 4, CSA File 226201

**INTERNAL HEATER:** Standard

**MANUAL OVERRIDE POWER SWITCH:**

Not available on 1005 and all 24V models

**MANUAL OVERRIDE:** Allen Handle Standard

Optional Handwheel not available on 1005

### SERIES 1000-X SPECIFICATIONS - MODULATING

SERIES V with MODULATING ACTUATORS					
INCH	DIN (MM)	BODY	Cv 75°	Cv 90°	VSI PN
1"	25	150/300	24	31	V-01/1005/S-X-24V
					V-01/1005/S-X
1.5"	40	150/300	55	73	V-15/1005/S-X-24V
					V-15/1005/S-X
2"	50	150/300	77	96	V-02/1005/S-X-24V
					V-02/1005/S-X
3"	80	150	207	270	V-03/1005/S-X-24V
					V-03/1005/S-X
4"	100	150	350	529	V-04/1010/S-X-24V
					V-04/1010/S-X
6"	150	150	507	850	V-06/1010/S-X-24V
					V-06/1010/S-X

MODEL	1005/S-X	1010/S-X
Output Torque (in-lb)	443	885
Output Torque (Nm)	50	100
Duty Cycle	80%	80%
Travel Speed @ 60Hz (Sec)	20	30
Max Current (Amp @ 110/220VAC)	0.34/0.17	0.81/0.47
Run Current (Amp @ 110/220VAC)	0.24/0.16	0.57/0.35
Max Current (Amp @ 24VAC)	1.80	2.30
Run Current (Amp @ 24VAC)	1.70	2.11
Input Signal	**	***
Output Signal	4-20mA	
Enclosure Rating	<b>WATERTIGHT NEMA 4</b>	

Please specify 2-10VDC or 4-20mA control signal when ordering.

\*\* Specific control packs for 2-10VDC or 4-20mA for both 120V and 24V

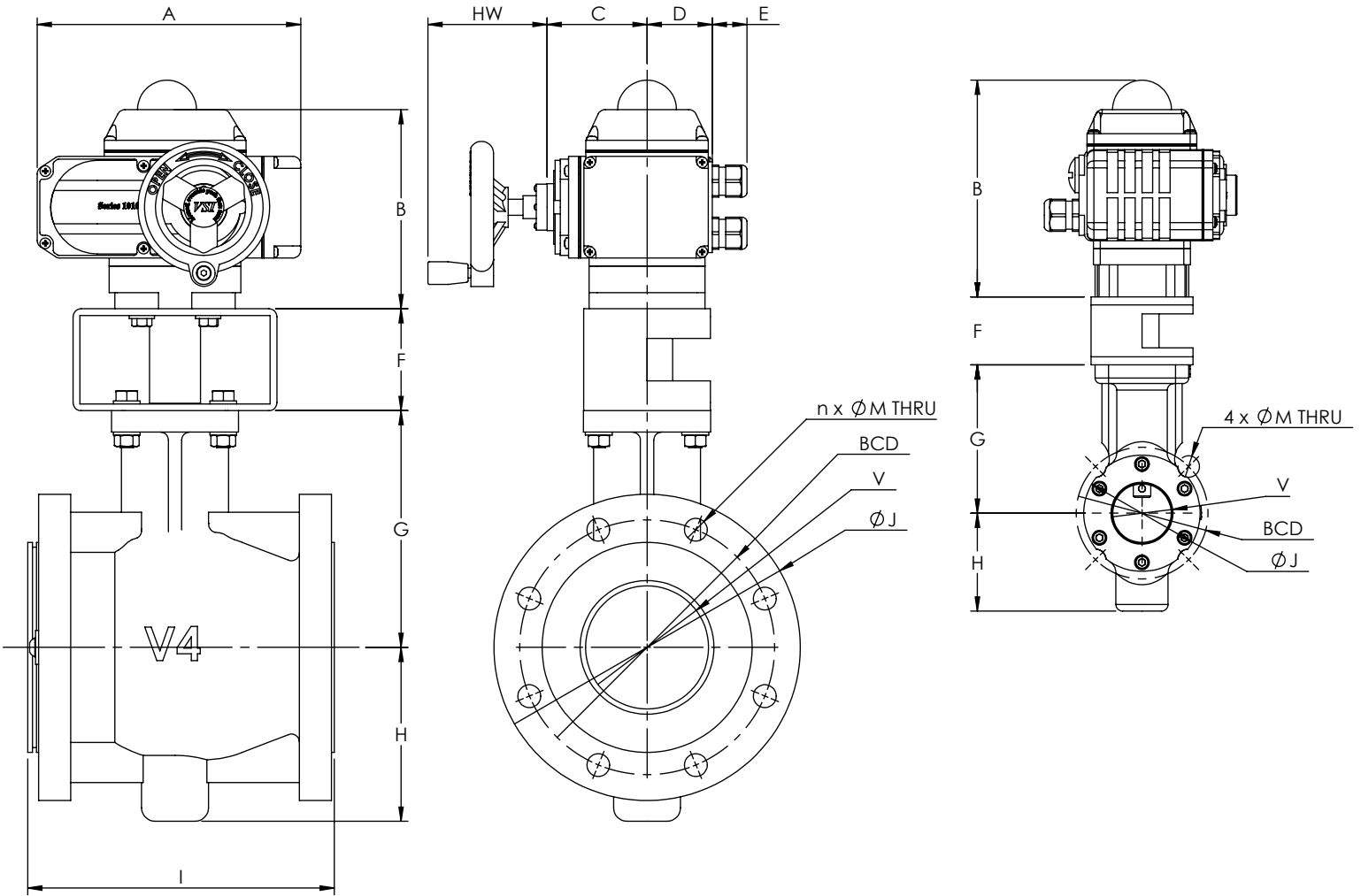
\*\*\* Switchable 2-10VDC or 4-20mA on 120V, Specific control packs for 2-10VDC or 4-20mA on 24V



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VALVE SIZE		A	B	C	D	E	HW	F	V	G	H	I	J	BCD	n x M
IN	DN (MM)														
1	25	160 (6.3)	160.5 (6.32)	63 (2.48)	49 (1.93)	24 (0.94)	87 (3.43)	50.8 (2)	1" NPT	101 (3.98)	65 (2.56)	127 (5)	70 (2.76)	79.5 (3.13)	4 x 5/8
1.5	40	160 (6.3)	160.5 (6.32)	63 (2.48)	49 (1.93)	24 (0.94)	87 (3.43)	50.8 (2)	1.5" NPT	166.8 (6.57)	73.2 (2.88)	165 (6.5)	87 (3.43)	98.5 (3.88)	4 x 5/8
2	50	160 (6.3)	160.5 (6.32)	63 (2.48)	49 (1.93)	24 (0.94)	87 (3.43)	50.8 (2)	2" NPT	128.5 (5.06)	91.5 (3.6)	178 (7)	101 (3.98)	127 (5)	4 x 3/4
3	75	160 (6.3)	160.5 (6.32)	63 (2.48)	49 (1.93)	24 (0.94)	87 (3.43)	76.2 (3)	Ø75 (2.95)	152 (5.98)	110 (4.33)	203 (8)	190.5 (7.5)	152.4 (6)	4 x 3/4
4	100	196 (7.72)	181 (7.13)	71 (2.8)	50 (1.97)	24 (0.94)	87 (3.43)	76.2 (3)	Ø100 (3.94)	177 (6.97)	130 (5.12)	229 (9)	229 (9)	190.5 (7.5)	8 x 3/4
6	150	196 (7.72)	181 (7.13)	71 (2.8)	50 (1.97)	24 (0.94)	87 (3.43)	76.2 (3)	Ø150 (6.06)	202.7 (7.98)	152.5 (6)	266.5 (10.5)	280 (11)	241.3 (9.5)	8 x 3/4