

# JV V SERIES ELECTRONIC "V BALL' STEAM AND HIGH-TEMPERATURE HOT WATER CONTROL VALVES

The Thermaflo JVV V Ball Series Control Valve is designed for high speed 100% duty for temperature, pressure and level control applications Specifically designed for steam, high-temperature hot water, and other rigorous control applications.

The equal percentage segmented V inner ball design provides the user with accurate control over a 300:1 flow turndown rangeability. Half the size and weight of any conventional globe control valve, the JVV is simple to install. The high-speed electronic actuator fails closed on power loss and totallyeliminates air supply. The fully programmable actuator accepts 0-10V or 4-20 ma input control signaland can be split range controlled when required. The JVV Series high flow CVs reduces valve size, space and overall weight of any application in your piping system.

## JVV V-BALL STANDARD FEATURES

PRECISION MACHINED 316 STAINLESS STEEL CONTROL SHAFT

ENGINEERED HIGH TEMPERATURE EXTENDED MOUNTING BRACKET

HIGH SPEED FAIL SAFE MONDULATING ACTUATOR 0-10V OR 4-20MA CONTROL SIGNAL INPUT

HIGH TEMP CHEVRON SEAT AND STEM SEALS IN A ISO MACHINED BASE MOUNT

COMPLETE 316 STAINLESS STEEL BODY, BALL, AND STEM CONSTRUCTION

BUBBLE TIGHT CLASS VI STEAM AND HOT WATER SHUTOFF

HIGH V PORT CV FLOW CAPACITIES AND EXCELLENT EQUAL PERCENTAGE CHARACTERIZED FLOW

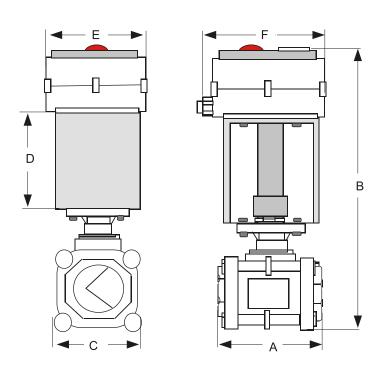
**VALVE POSITION FEEDBACK AND ALARMS** 



- MAX OPERATING PRESSURE/TEMPERATURE 450F @ 200 PSIG (HIGHER RATINGS AVAILABLE)
- MAXIMUM AMBIENT TEMPERATURE: 120F
- CUSTOM SLOTTED BALL AND CVS AVAILABLE
- SIZES: 1/2" THRU 3" CONNECTIONS: NPT OR SOCKET WELD UP TO 8" 150/300 LB AVAILABLE
- MATERIALS OF CONSTRUCTION: 316 STAINLESS STEEL BODY, BALL, AND STEAM
- REINFORCED HIGH TEMPERATURE TEFLON SEATS

#### **SIZING NOTES:**

1. OPTIMUM CONTROL RANGE 30% TO 90%. 2. CV REDUCED 30% WHEN INSTALLING IN A PIPE WHERE VALVE SIZE IS MORE THAN HALF THE PIPE SIZE. EXAMPLE 2" PIPE AND CONTROL VALVE SIZE 3/4"



## **DIMENSIONS** (Shown in Inches)

VALVE SIZE	A	В	C	D	E	F
1/2"	2.5	14	2	6	3	4
3/4"	2.9	14	2	6	3	4
1"	3.4	14.5	2.2	6	3	4
1.25"	3.7	14.6	2.9	6	4	6
1.5"	4.3	15	3.2	6	4	6
2″	5.8	15.3	3.5	6	4	6
3″	8	21	9	6	4	6

**NOTE:** Dimensions may change with inlet pressures over 150 psig due to actuator selection. Consult Factory.

<sup>3&</sup>quot; Valve is 150lb Flanged Connection

POWER REQUIREMENTS				
S80	60w at 24 VDC			

Note: The actuator can accept 24VAC Power DC is recommended for 100% duty cycle



### FLOW PERFORMANCE DATA VALVE CV % of Opening 90% Segmented V

SIZE	30%	50%	80%	100%
1/2"	.85	2	8	14
3/4"	1	2.6	10	20
1"	2.7	7.7	24	43
1.25"	3	10.2	34	65
1.5"	3	14	48	90
2"	7.2	25	87	167
3"	8.65	42	161	359

#### JVV V BALL SERIES MODEL NUMBER DESIGNATION

SIVALVE SIZE: 1/2", 3/4", 1", 1.25", 1.5", 2", 3" VALVE CONSTRUCTION: S 316 STAINLESS STEEL

ALL TRIMS ARE 316 STAINLESS STEEL BALL AND STEM VALVE SEATS RT REINFORCED TEFLON 400F

**END CONNECTIONS SE SCREWED ENDS 150LB FLG 3" ONLY** 

SW SOCKET WELD FAIL POSITION FC FAIL CLOSED

FO FAIL OPEN CONTROL PORT V90 90 DEGREPORT

INPUT SIGNAL

1 0-10 VOLTS 2 4-20 MA

JVV-1" SRT-SE-FCV90-1 NEMA 2 4 (OPTIONAL)