

JV V SERIES PNEUMATIC "V BALL" STEAM AND HIGH-TEMPERATURE HOT WATER CONTROL VALVES

The Thermaflo JVV V Ball Pneumatic Series Control Valve is designed for high speed 100% duty for temperature, pressure and level control applications. Specifically designed for steam, hightemperature 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 pneumatic actuator fails closed on power loss. The fully programmable electronic or pneumatic positioner accepts 3-15 psig or 4-20 ma input control signal and 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 MODULATING ACTUATOR 3-15 PSIG 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 INDICATOR

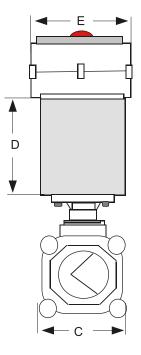


Shown with Electropneumatic Positioner

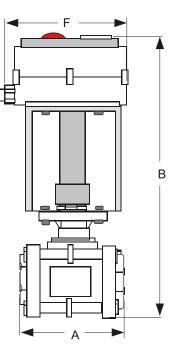
- MAX OPERATING PRESSURE/TEMPERATURE 450F @ 200 PSIG (HIGHER RATINGS AVAILABLE)
- MAXIMUM AMBIENT TEMPERATURE: 120F
- CUSTOM SLOTTED BALL AND CVS AVAILABLE
- SIZES: 1/2" THRU 3" CONNECTIONS: NPT OR SOCKET WELD UP TO 8" 150/300 LB AVAILABLE
- MATERIALS OF CONSTRUCTION: 316 STAINLESS STEEL BODY, BALL,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

THERMAFLOENGINEERING.COM | 2880 FAIR AVE. NEWBERRY, SC. | 704-940-1228

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"



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DIMENSIONS (Shown in Inches)

VALVE SIZE	Α	B	С	D	Ε	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. 3" Valve is 150lb Flanged Connection

F	POWER REQUIREMENTS					
	06T	60w at 24 VDC				



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 3-15 PSIG

JVV-1" SRT-SE-FCV90-1 NEMA 2 4 (OPTIONAL) 60 PSIG Minimum Instrument Air Required to Positioner

Add 6" to B