

J Series LIT-1900189

Electric Zone Valves – Two- and Three-Way Non-Spring Return, Modulating Control

Description

This electric zone valve with forged brass body offers two- and three-way non-spring return, modulating control for hot or chilled water applications. For complete details, refer to *J Series Electric Zone Valves Product Bulletin (LIT-977282)*.

Features

- economical control of hot or chilled water (up to 50% glycol) for fan coil, baseboard radiator and VAV reheat applications.
- 0 to 10 VDC proportional and three wire floating control.
- 32 to 200°F (0 to 93°C) fluid temperature rating
- 32 to 125°F (0 to 52°C) ambient temperature rating
- · 300 psig Static Pressure Rating
- 20 to 30 VAC 50/60 Hz
- forged brass body

Note: Actuators and valve bodies can be ordered separately using the actuator and valve code numbers shown. JM Series Modulating Three-Way Electric Zone Valves must be piped in a mixing configuration only.



JM Series Two-way Non-spring Return Modulating Electric Zone Valve

Selection Chart

National	Valve	Size	Cv	Close-	Actu	ıator		
Two-Way - Sweat Connections				off	Three Wire	0 to 10 VDC		
Two-Way - Sweat Connections JM2211 1/2" 1 50 JM2211T33A00T JM2212P33A000 JM2213 1/2" 4 35 JM2213T33A00T JM2213P33A000 JM2313 3/4" 2 50 JM2312T33A00T JM2312P33A000 JM2313 3/4" 4 35 JM2313T33A00T JM2312P33A000 JM2313 3/4" 4 35 JM2313T33A00T JM2313P33A000 JM2317 3/4" 7.5 35 JM2317T33A00T JM2317P33A000 JM2413 1" 4 35 JM2413T33A00T JM2317P33A000 JM2413 1" 4 35 JM2413T33A00T JM2413P33A000 JM2417 1" 8 35 JM2417T33A00T JM2413P33A000 JM2517 1-1/4" 8 35 JM2417T33A00T JM2417P33A000 JM2517 1-1/4" 8 35 JM2517T33A00T JM2517P33A000 JM2517 1-1/4" 8 35 JM2517T33A00T JM2517P33A000 JM2221 1/2" 2 50 JM2222T33A00T JM2222P33A000 JM2222 1/2" 2 50 JM2222T33A00T JM2222P33A000 JM2223 1/2" 4 35 JM2223T33A00T JM2222P33A000 JM2323 3/4" 4 35 JM2323T33A00T JM2323P33A000 JM2327 3/4" 7.5 35 JM2327T3A00T JM2323P33A000 JM2427 1" 8 35 JM2427T33A00T JM2323P33A000 JM3211 1/2" 1 50 JM3211T33A00T JM2323P33A000 JM3213 1/2" 4 35 JM3213T33A00T JM3212P33A000 JM3213 1/2" 4 35 JM3213T33A00T JM3212P33A000 JM3312 3/4" 2 50 JM3212T33A00T JM3212P33A000 JM3313 3/4" 4 35 JM3313T33A00T JM3313P33A000 JM3313 3/4" 4 35 JM3313T33A00T JM3313P33A000 JM3317 3/4" 7.5 35 JM3313T33A00T JM3313P33A000 JM3317 3/4" 7.5 35 JM3313T33A00T JM3313P33A000 JM3317 3/4" 7.5 35 JM3313T33A00T JM3313P33A000 JM3413 1" 4 35 JM3313T33A00T JM3313P33A000 JM3413 1" 4 35 JM3213T33A00T JM3313P33A000 JM3317 3/4" 7.5 35 JM3313T33A00T JM3313P33A000 JM3317 3/4" 7.5 35 JM3223T33A00T JM3313P33A000 JM3317P33A000 JM3313P33A000 JM3313P33A000 JM3313P33A000 JM3322 3/4" 2 50 JM3223T33A00T JM3323P33A000 JM3322 3/4" 2 50 JM3223T33A00T JM3323P33A000 JM3323P33A000 JM3323 3/4" 4 35 JM3323T33A00T JM332					Floating	Proportional		
JM2211 1/2"					JT33A00T	JP33A000		
JM2212	Two-Way	Two-Way – Sweat Connections						
JM2213	JM2211	1/2"	1	50	JM2211T33A00T	JM2211P33A000		
JM2312 3/4" 2 50	JM2212	1/2"	2	50	JM2212T33A00T	JM2212P33A000		
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JM2413	JM2313	3/4"	4	35	JM2313T33A00T	JM2313P33A000		
JM2417	JM2317	3/4"	7.5	35	JM2317T33A00T	JM2317P33A000		
JM2517	JM2413	1"	4	35	JM2413T33A00T	JM2413P33A000		
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JM2222	Two-Way - NPT Connections							
JM2223	JM2221	1/2"	1	50	JM2221T33A00T	JM2221P33A000		
JM2322 3/4" 2 50 JM2322T33A00T JM2322P33A000 JM2323 3/4" 4 35 JM2323T33A00T JM2323P33A000 JM2327 3/4" 7.5 35 JM2327T33A00T JM2327P33A000 JM2427 1" 8 35 JM2427T33A00T JM2427P33A000 Three-Way - Sweat Connections JM3211 1/2" 1 50 JM3211T33A00T JM3211P33A000 JM3212 1/2" 2 50 JM3212T33A00T JM3212P33A000 JM3312 3/4" 2 50 JM3312T33A00T JM3312P33A000 JM3313 3/4" 4 35 JM3313T33A00T JM3313P33A000 JM3317 3/4" 7.5 35 JM3317T33A00T JM3317P33A000 JM3413 1" 4 35 JM3413T3A00T JM3413P33A000 JM3417 1" 8 35 JM3417T3A00T JM3417P33A000 JM3517 1-1/4" 8 35 JM3517T3A00T JM3517P33A000	JM2222	1/2"	2	50	JM2222T33A00T	JM2222P33A000		
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JM2427	JM2323	3/4"	4	35	JM2323T33A00T	JM2323P33A000		
Three-Way - Sweat Connections	JM2327	1	7.5	35	JM2327T33A00T	JM2327P33A000		
JM3211 1/2" 1 50 JM3211T33A00T JM3211P33A000 JM3212 1/2" 2 50 JM3212T33A00T JM3212P33A000 JM3213 1/2" 4 35 JM3213T33A00T JM3213P33A000 JM3312 3/4" 2 50 JM3312T33A00T JM3312P33A000 JM3313 3/4" 4 35 JM3313T33A00T JM3313P33A000 JM3413 1" 4 35 JM3413T33A00T JM3413P33A000 JM3417 1" 8 35 JM3417T33A00T JM3417P33A000 JM3517 1-1/4" 8 35 JM3517T3A00T JM3517P33A000 Three-Way - NPT Connections, mixing configuration only JM3221 1/2" 1 50 JM3221T33A00T JM3221P33A000 JM3222 1/2" 2 50 JM3222T33A00T JM3222P33A000 JM3322 3/4" 2 50 JM3223T33A00T JM3223P33A000 JM3323 3/4" 4 35 JM322T33A00T JM3322P33A000	JM2427	1"	8	35	JM2427T33A00T	JM2427P33A000		
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Repair Information

If the J Series Electric Zone Valve – Two-Way and Three-Way Non-Spring Return, Modulating Control fails to operate within its specifications, replace the unit. For a replacement valve, contact the nearest Johnson Controls® representative.

Technical Specifications

J Series Electric Zone Valves – Two-Way and Three-Way Non-Spring Return, Modulating Control					
Service ¹		Hot Water Chill Water, and 50/50 Glycol Solutions for HVAC Systems			
Fluid	Water	32 to 200°F (0 to 93°C)			
Temperature Limits	Steam	Not rated for steam service			
Valve Body P	ressure Rating	300 psig (2,067 kPa)			
Leakage		0.01% of Maximum Flow per ANSI/FCI 70-2 Class IV			
Ambient Ope Limits	rating Temperature	32 to 125°F (0 to 52°C)			
Cycle Time		Full Open to Full Close 150 seconds			
Control Signal	"T" Type Actuator	24 VAC, 60 Hz, Three-Wire Floating Control			
	"P" Type Actuator	0 to 10 VDC (1 to 9 VDC Actual) Factory Setting, 0 to 5 VDC, 5 to 10 VDC jumper selectable			
Control Action	"P" Type Actuator	Factory Setting: Direct Acting Valve opens Port "B" as signal increases. Jumper selectable			
Power	"T" Type Actuator	1.2 VA			
Require- ments	"P" Type Actuator	1.6 VA			
Electrical Cor	nection	Terminal Block			
Materials	Body	Brass			
	Stem	Brass (Hard Chrome Plated)			
	Base Plate and Bearing Plate	Stainless Steel			
	Actuator Housing	High Temperature Plastic			
	Valve Plug	High Temperature Thermoplastic Rubber			
	Stem Seals	Viton™ O-rings			

^{1.} Refer to VDI 2035 Standard for recommended proper water treatment.