

## Three-way Modulating Valve with Control

Submittal Information

Revision B: April 25, 2011

### Project Information

Job Name:

Location: Part No. Ordered:

Engineer: Date Submitted:

Contractor: Submitted By:

Manufacturer's Representative: Approved By:

### Technical Data

Leakage:	0% for valve control path (ports A to B) < 2.0% for valve control path (ports B to AB) of full-rated Cv (valve with no disc)
Flow Characteristics:	"A" port equals percent; "B" port is modified for constant common flow
Media Temperature:	0°F to 212°F (-18°C to 100°C)
End Fittings:	National Pipe Thread (NPT)
Maximum Differential Pressure:	20 psi (typical applications)
Service:	Chilled or hot water; glycol up to 60%
Actuator Power:	24VAC (+/- 20%); 24VDC (+/- 10%); Class 2 power-rated at 3VA
Power Consumption:	1.5W (holding 0.4W)
Control:	2 to 10VDC



### Product Information and Application Use

The Uponor Climate Control™ Multifunction System Three-way Modulating Valve with control provides mixing control of any three-way modulating valve (0-10VDC) up to three different water temperatures in either radiant-heating or snow-melting applications.

✓ Description	Part Number	Height	Width	Depth	Weight
¾" Three-way Modulating Valve with Control, 0-10v (Cv=4.7)	A9013021	4.97"	7.90"	2.60"	3.03 lbs.
1" Three-way Modulating Valve with Control, 0-10v (Cv=10.0)	A9013022	5.03"	7.90"	2.60"	4.00 lbs.
1¼" Three-way Modulating Valve with Control, 0-10v (Cv=19.0)	A9013023	5.51"	8.50"	3.46"	5.00 lbs.
1½" Three-way Modulating Valve with Control, 0-10v (Cv=29.0)	A9013024	5.75"	8.50"	3.46"	5.50 lbs.
2" Three-way Modulating Valve without Control, 0-10v (Cv=46.0)*	A9013026	8.00"	9.50"	4.50"	7.38 lbs.

\*Requires Modulating Valve Control, 0-10v (A9063020)

### Installation

Mount on or near the valve and connect to the Climate Control Multifunction Controller using a standard Cat5 cable with RJ45 ends. Uponor offers three-way valves with the valve control pre-wired and mounted to the motor. Refer to the Uponor Climate Control Multifunction Installation Guide and the Climate Control Network System Operation Manual for additional information.

### Standards

N/A

### Codes

N/A

### Listings

cULus acc. To UL60730-1A/-2-14; CAN/CSA E60730-1; CSA C22.2 No. 24-93; CE acc. To 89/336/EEC

### Related Applications

Radiant Heating and Cooling System  
Snow and Ice Melting System  
Permafrost Protection System  
Turf Conditioning System

### Contact Information

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