

VMT 2-Way Water Valve



Application:



The VMT is a 2-way valve used in controlling the flow of hot water within heating applications. The VMT valve can be installed in applications involving heating or chilled coils, hot water storage tank, plate heat exchanger or floor heating system. In the control of the VMT valve, a thermostatic operator type RAVV or RAVK or

a 24VAC electric actuator type TWA-V or ABV can be mounted to the valve to regulate the temperature and flow through the valve. The VMT valves are available in 1/2", 3/4", and 1" sizes and the connections available are female solder unions for 1/2" and 3/4" and male threaded unions for 1".

Features:

- Seated valve
- Brass body
- Low and high flow capacities
- 1/2" and 3/4" double solder union
- Male NPT unions

Ordering Information:

VMT Valves with Union Connections

Code No.	Type	Size	Cv	Connection
065F0102	VMT 15/8	1/2"	1.6	F. Solder Union
065F0104	VMT 20/8	3/4"	2.7	F. Solder Union

High Capacity, VMT Valves with Union Connections

Code No.	Type	Size	Cv	Connection
065F8960	VMT 15/2	1/2"	3.3	F. Solder Union
065F8961	VMT 20/2	3/4"	5.9	F. Solder Union
065F1242	VMT 25/2	1"	9.4	M. NPT Union

Suitable Thermostatic Operators

Code No.	Type	Setting Range	Capillary Tube Length
013U1251	RAVV	104 – 158°F (40 - 70°C)	4' 11" (1.5m)
013U1252		80 – 132°F (27 - 56°C)	
013U1255		50 – 100°F (10 - 38°C)	
013U8063	RAVK	77 – 149°F (25 - 65°C)	6' 5" (2m)
017-4370	1/2" Brass Sensor Well for RAVV or RAVK		

Electric Actuators

Code No.	Type	Valve Function	Supply Voltage	Power Consumption
088H3120	TWA-V*	Normally closed	24 VAC	2.0 VA
088H3121		Normally open		
082F0052	ABV	Normally closed		9.0 VA
082F0002		Normally open		

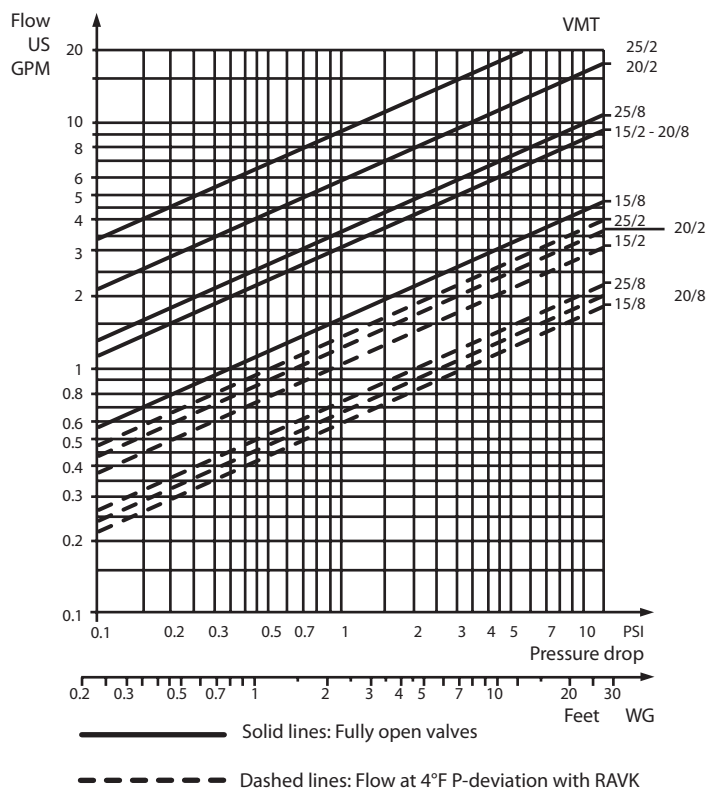
*TWA-V should only to be used with VMT 15/8 and VMT 20/8 valves

**Ordering
Information (Cont.):**
Spare Parts

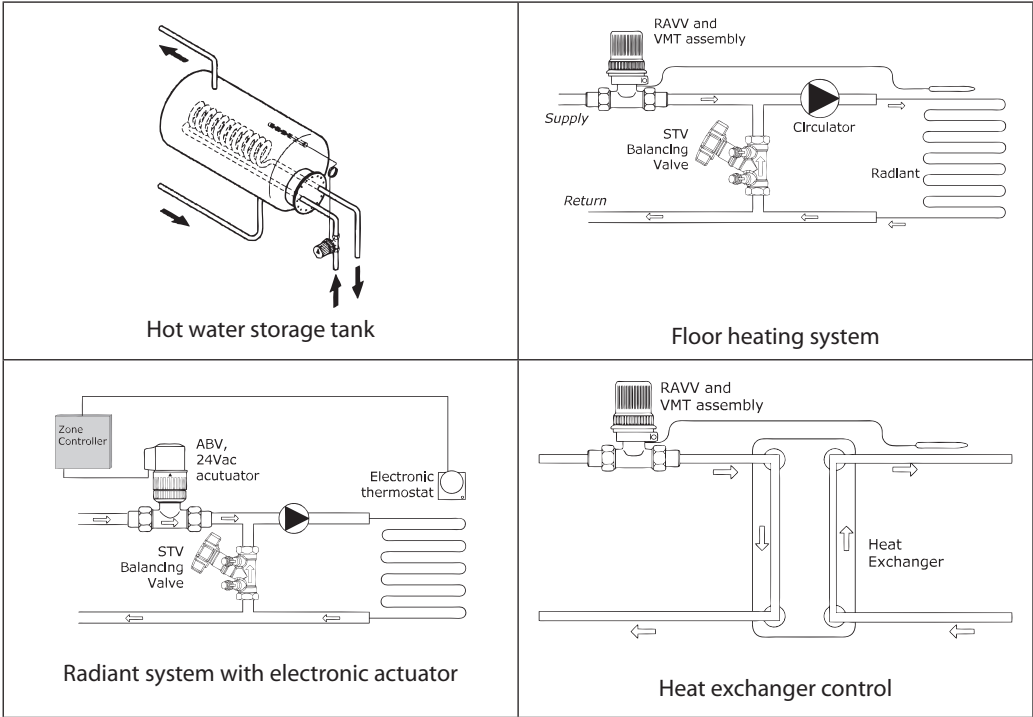
Code No.	Type	Size
013U0496	Union Nut (2 required)	1/2"
013U0499		3/4"
013U0501		1"
013U0476	Male NPT Tailpiece (2 required)	1/2"
013U0479		3/4"
013U0489		1"
013U8608	Female Solder Tailpiece (2 required)	1/2"
013U8609		3/4"
013U0070	Packing Gland	

Specifications:

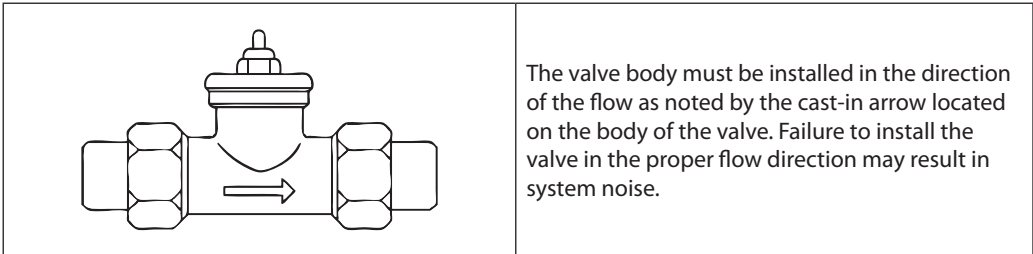
Maximum test pressure	232 psi (16 bar)
Maximum working pressure	145 psi (10 bar)
Maximum flow temperature	250°F (120°C)
Maximum differential pressure (for quiet operation)	VMT 15/8 & 20/8: 12 psi (0.8 bar)
	VMT 15/2, 20/2 & 25/2: 7.25 psi (0.5 bar)
Allowable fluid	Water (maximum 30% glycol) in a closed loop hydronic system.

VMT Sizing Chart


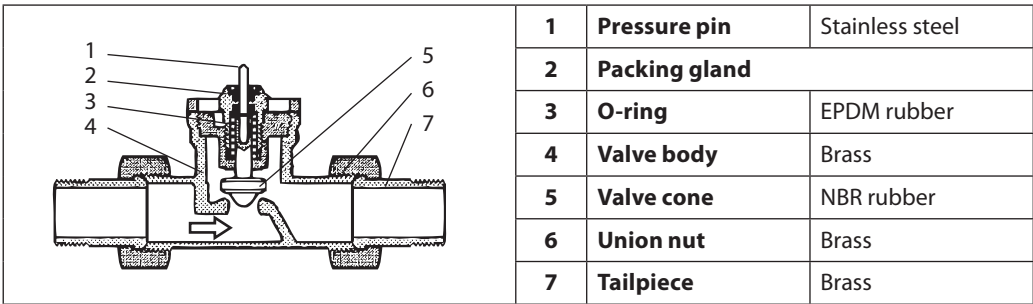
Typical Installations:

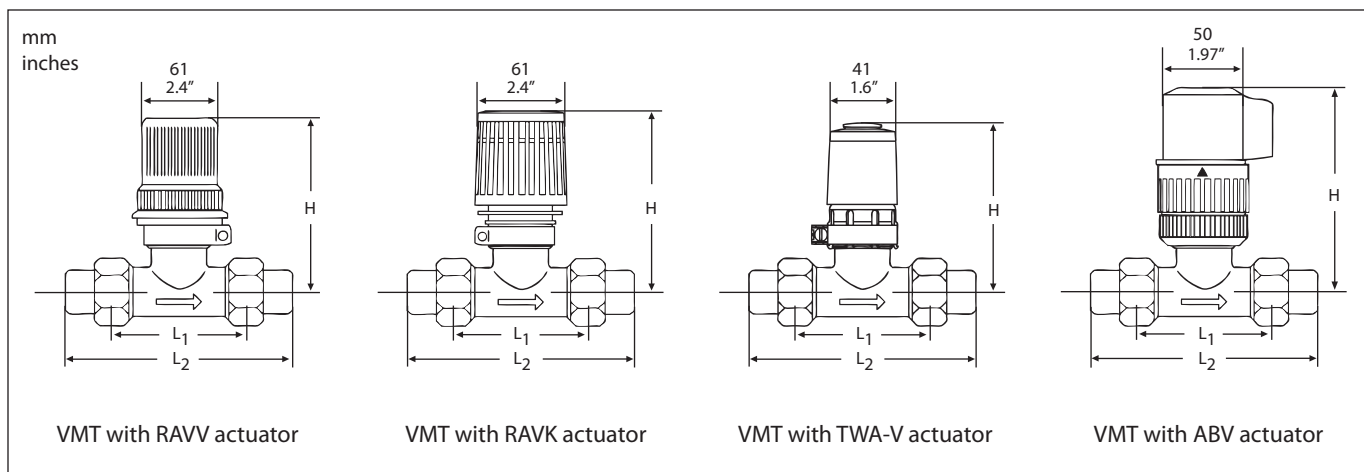


Installation:



Construction:



Dimensions:

Size	Type	L1 in (mm)	L2, in (mm)		H, in (mm), VMT + control			
			F. solder	M. NPT	RAVV	RAVK	TWA-V*	ABV
1/2"	VMT 15/8	2.6 (66)	3.9 (99)	5.1 (130)	3.7 (94)	4.1 (104)	3.6 (91)	4.4 (112)
3/4"	VMT 20/8	2.9 (74)	4.6 (117)	5.7 (145)	3.7 (94)	4.1 (104)	3.6 (91)	4.4 (112)
1/2"	VMT 15/2	2.6 (66)	3.9 (99)	5.1 (130)	3.8 (97)	4.3 (109)		4.5 (114)
3/4"	VMT 20/2	2.9 (74)	4.6 (117)	5.4 (137)	3.9 (99)	4.5 (114)		4.6 (117)
1"	VMT 25/2	3.6 (91)		6.5 (165)	4.2 (107)	4.7 (119)		4.9 (124)

*TWA-V should only be used with VMT 15/8 and VMT 20/8 valves

Typical Specification:

The 2-way mixing valve shall be a brass construction with double union connections for hot water heating applications. The valve shall have a stamped indicator to reflect proper piping of valve within system. The valve shall have a serviceable packing gland that is

replaceable. The regulation of the valve shall be by means of thermostatic operator or 24VAC electronic actuator. The actuators mounted onto the valve shall be interchangeable. The 2-way water valve shall be a VMT series.

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