

Datasheet

VMT

2-way water valve

Application:



Features:

- Seated globe valve
- Brass body
- Low and high flow capacities
- Double union tail piece connections

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 tanks, plate heat exchangers or floor heating systems. In the control of the VMT valve, a thermostatic operator type 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 ½", ¾", and 1" sizes and the double union connections are available in female sweat unions for ½" and ¾" and male NPT connections for 1".

Ordering Information:

VMT Valves	Code No.	Model	Size	Cv	Connection
w/ Union Connections	065F0102	VMT 15/8	1/2"	1.6	F. Sweat Unions
w/ Union Connections	065F0104	VMT 20/8	3/4"	2.7	F. Sweat Unions
	065F8960	VMT 15/2	1/2"	3.3	F. Sweat Unions
w/ Union Connections (High Capacity)	065F8961	VMT 20/2	3/4"	5.9	F. Sweat Unions
	065F1242	VMT 25/2	1″	9.4	M. NPT Unions

Suitable Controls for VMT

Type	Code No.	Model	Setting Range	Capillary Tube Length			
	003L3530		50° to 86°F (10° to 30°C)				
Thermostatic	013U8063	RAVK ¹	77° to 149°F (25° to 65°C) 6 ft. 6		6 in. (2 m)		
Operator	003L3531]	95° to 167°F (35° to 75°C)				
	017-4370	1/2" Brass	Sensor Well for RAVK				
Туре	Code No.	Model	Model Valve Function		Power Consumption		
	088H3120	T\\\\\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Normally closed		2.0 VA		
Electric Actuator	088H3121	TWA-V ²	Normally open	24 VAC			
	082F0052	4 D) /	Normally closed		9.0 VA		
	082F0002	ABV	Normally open		9.0 VA		

^{1.} Direct replacement for RAVV. See cross reference chart below. 2. TWA-V should only to be used with VMT 15/8 and VMT 20/8 valves.

Cross Reference Chart

RAVV		>>	RAVK		
013U1251	104° - 158°F (40° - 70°C)	>>	003L3531	95° - 167°F (35° - 75°C)	
013U1252	80° - 132°F (27° - 57°C)	>>	013U8063	77° - 149°F (25° - 65°C)	
013U1255	50° - 100°F (10° - 38°C)	>>	003L3530	50° - 86°F (10° - 30°C)	



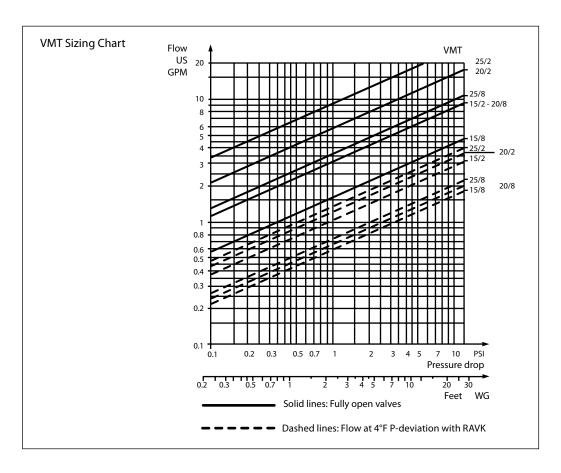
Ordering Information (Cont.):

Spare Parts

Code No.	Туре	Size		
013U0496		1/2"		
013U0499	Union Nut (Order two pieces per valve)			
013U0501		1"		
013U0476		1/2″		
013U0479	Male NPT Tailpiece (Order two pieces per valve)			
013U0489		1"		
013U8608	Formula Curant Tailmines (Oudoutura minesa manualus)	1/2"		
013U8609	Female Sweat Tailpiece (Order two pieces per valve)			
013U0070	Packing Gland			

Specifications:

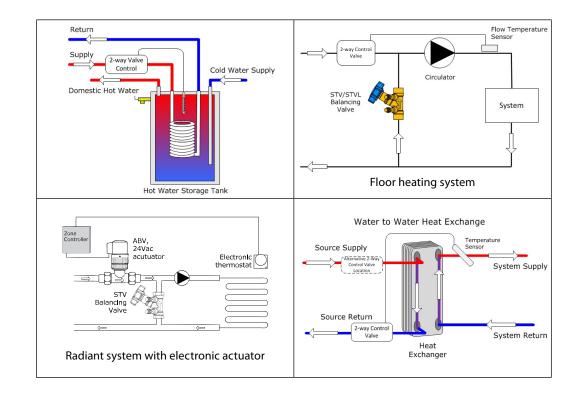
Maximum test pressure	232 psi (16 bar)		
Maximum working pressure	145 psi (10 bar)		
Maximum flow temperature	250°F (120°C)		
Maximum differential pressure	VMT 15/8 & 20/8: 12 psi (0.8 bar)		
(for quiet operation)	VMT 15/2, 20/2 & 25/2: 3 psi (0.2 bar)		
Allowable fluid	Water (maximum 30% glycol) in a closed loop hydronic system.		



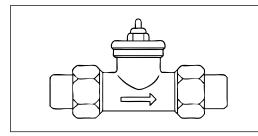
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Typical Installations:

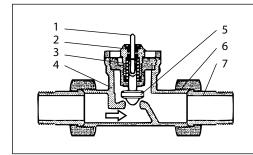


Installation:



The valve body must be installed in the direction of the flow as noted by the cast-in arrow located on the body of the valve. Failure to install the valve in the proper flow direction may result in system noise during operation.

Construction:

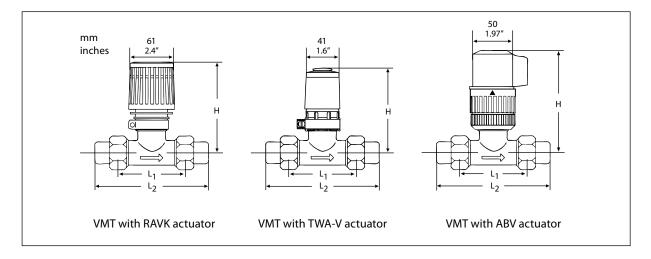


1	Pressure pin	Stainless steel
2	Packing gland	
3	O-ring	EPDM rubber
4	Valve body	Brass
5	Valve cone	NBR rubber
6	Union nut	Brass
7	Tailpiece	Brass

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Dimensions:



Size Type	Turno	Time 11 in (man)	L2, in (mm)		H, in (mm), VMT + control		
	L1 in (mm)	F. solder	M. NPT	RAVK	TWA-V*	ABV	
1/2"	VMT 15/8	2.6" (66)	3.9" (99)	5.1" (130)	4.1"(104)	3.6" (91)	4.4" (112)
3/4"	VMT 20/8	2.9" (74)	4.6" (117)	5.7" (145)	4.1" (104)	3.6" (91)	4.4" (112)
1/2"	VMT 15/2	2.6" (66)	3.9" (99)	5.1" (130)	4.3" (109)	-	4.5" (114)
3/4"	VMT 20/2	2.9" (74)	4.6" (117)	5.4" (137)	4.5" (114)	-	4.6" (117)
1″	VMT 25/2	3.6" (91)	-	6.5" (165)	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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