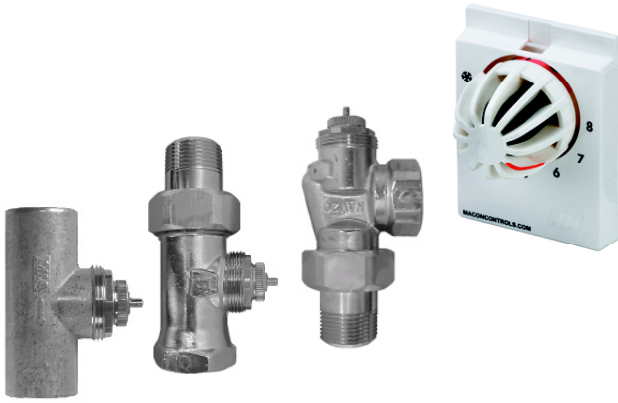
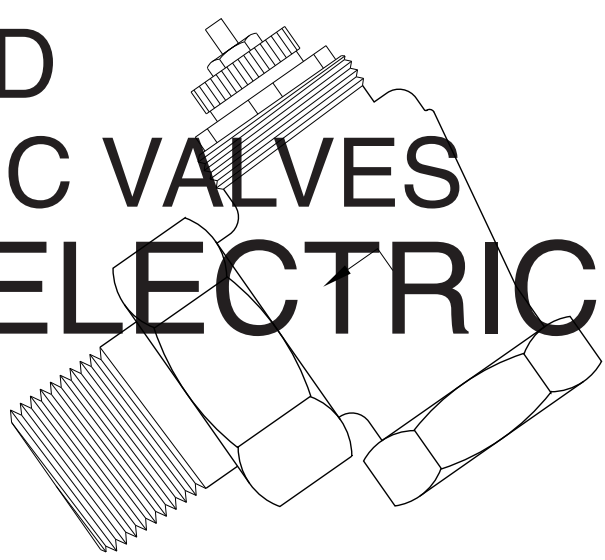


TACO HEAT-GARD THERMOSTATIC VALVES NON-ELECTRIC



The new Heat-Gard 5400 Series Thermostatic valves are self-contained, wireless, automatic, modulating temperature control valves for use in hot water and two pipe steam space heating systems. They sense changes in temperature and automatically increase or decrease the flow of heat to provide optimal comfort and energy savings.

MOST COMPLETE LINE OF ZONE CONTROL PRODUCTS



FEATURES

- Quiet Operation
- Highly Accurate Sensor
- In-Line Serviceability: Cartridge and Top
- O-Ring can be Replaced Without Draining the System
- No Electrical Power or Wires Required
- Good Flow and Head Capacities
- Ideal for Radiant Applications
- Numbered Temperature Index Settings
Optional Remote Sensors
- Attractive Operators
- Corrosion Resistant Nickel Plated Brass Valve Bodies
- Freeze Protection Setting
- Double O-Ring Stem Seals
- Field Adjustable Min/Max Limits

SPECIFICATIONS

- Max Pressure, Water: 150 PSI (1034 kPa)
- Max Temperature, Water: 250°F (120°C)
- Max Pressure, Steam: 15 PSI (103 kPa)
- Max Temperature, Steam: 250°F (120°C)
- Max Shut-Off Capability: 50 FT. WG (150 kPa, 21.5PSI)
- Cv at Full Open:
 - 1/2" - 1.8
 - 3/4" - 2.5
 - 1" - 2.74
 - 1-1/4" - 3.5
- Max. Differential Pressure: 20 PSI H2O.
- Suggested Differential Pressure: 0.5-2.9 PSI
- If a higher pump head is encountered it is recommended that a differential by-pass valve be installed.

MATERIALS

- VALVES:**
- Body: Nickel Plated Forged Brass
 - Union: Nickel Plated Wrought Brass
 - Stem: Stainless Steel
 - Seals and Seat Disk: EPDM
 - Cartridge: Brass, Stainless Steel Spring and Stem
- OPERATORS:**
- High Strength Engineering Grade Plastics
 - White Dial Knob
 - Nickel Plated Brass Attachment Nut.

CONTROLLED AIR TEMPERATURE SETTING RANGE

Operator No.	Temperature Range
5401	46°F-82°
5403	46°F-82°F
5406, 5411	46°F-80°F

TEMPERATURE CONTROL RANGE (APPROXIMATE)

Dial Setting *	1	3	5	6	7	8
Temp, °F	46	54	61	68	72	80

Taco Heat-Gard

NON-ELECTRIC THERMOSTATIC RADIATOR VALVES

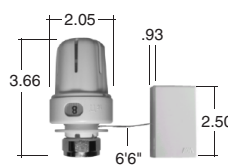
The Taco Heat Gard thermostatic valves keep a heating system comfort balanced by eliminating cold spots and overheating. Its proven design and reliable operation make it the simplest way to prevent energy waste and reduce heating costs. The Heat-Gard valve is made so that the complete cartridge can be replaced under pressure without draining the system, delivering a higher level of uninterrupted comfort control.

OPERATOR DIAGRAMS

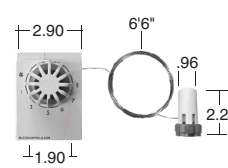
Direct Sensor
Product #5401



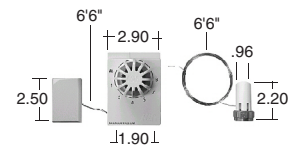
Remote Sensor
Product #5403



Wall Mount Dial
Product #5406

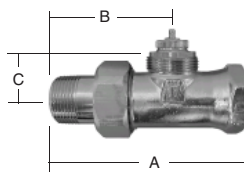


Double Capillary
Product #5411

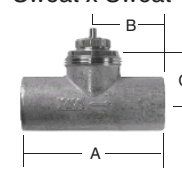


VALVE DIAGRAMS

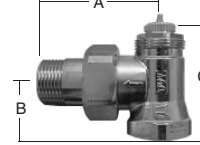
Straight



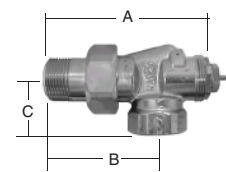
Straight
Sweat x Sweat



Angle



Axial / Side Mount



PERFORMANCE FIELD, WATER (valves fully open)

VALVE SIZE	.43 PSI	1.7 PSI	3.5 PSI	5.2 PSI	7 PSI
1/2"	12	23.5	33.5	41	47.5
3/4"	16.5	32.5	47	57	66
1"	17	35	51	62	71
1-1/4"	21	44	64	77	88*

*Thousands of BTU/Hour shown in Table

PERFORMANCE FIELD, STEAM (valves fully open)

VALVE SIZE	1 PSI	3 PSI	5 PSI	7 PSI
1/2"	28	46	63	72
3/4"	36	65	84	96
1"	39	70	91	104
1-1/4"	48	87	113	130*

*Thousands of BTU/Hour shown in Table

DIMENSIONS

VALVE TYPE	CONNECTION SIZE	PRODUCT NUMBER	VALVE DIMENSIONS		
			A	B	C
Sweat X	1/2"	5424	2-3/16"	1-3/32"	1"
	3/4"	5434	2-11/16"	1-11/32"	7/8"
	1"	5444	3-5/32"	1-9/16"	1"
	1-1/4"	5454	4-1/2"	2-1/16"	1"
Straight NPT*	1/2"	5421	3-1/2"	2-1/16"	1"
	3/4"	5431	4"	2-1/2"	1"
	1"	5441	4-5/8"	2-15/16"	1"
	1-1/4"	5451	5-1/4"	3-3/8"	1-1/8"
Vertical NPT*	1/2"	5423	2-1/4"	1"	1-3/4"
	3/4"	5433	2-1/2"	1-1/8"	2-1/8"
	1"	5443	3"	1-3/8"	2-1/4"
	1-1/4"	5453	3-1/4"	1-3/4"	2-3/4"
Horizontal NPT*	1/2"	5422	3-3/8"	2-3/16"	1-1/2"
	3/4"	5432	3-3/4"	2-1/2"	1-1/4"
	1"	5442	4-3/16"	3"	1-3/8"
	1-1/4"	5452	4-3/4"	3-1/4"	1-7/8"
Operators	Direct Mount	5401			
	Remote Sensor	5403	6'6" Capillary		
	Remote Dial	5406	6'6" Capillary		
	Remote Dial & Sensor	5411	(2) 6'6" Capillary		

*Add C1 Suffix to product number for Sweat Union Fitting (not available for 1" & 1-1/4")

Note: Allowances must be made in the selection of the valve body configuration in order to fully extend the 5416 In-Line Cartridge Changing Tool a minimum of 16" to remove and replace the cartridge.