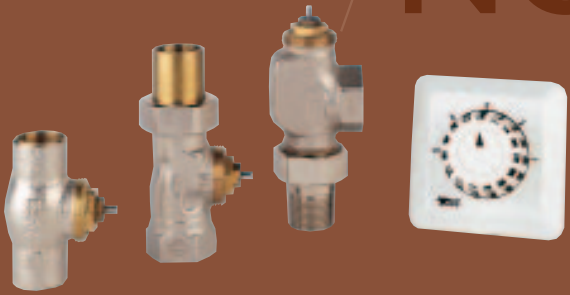




THERMOSTATIC VALVES NON-ELECTRIC



The Taco Heat-Gard™ 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



CATALOG # 100-6.3



taco

FEATURES

- Quiet Operation
- Highly Accurate Liquid-Filled 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
- Adjustable Economy Clip to Limit Maximum Setting

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" Straight 2.6
 - 3/4" Straight 3.5
 - 1/2" Angle 3.0
 - 3/4" Angle 4.1
 - 1/2" Axial 3.0
 - 3/4" Axial 4.1

It is recommended that the differential pressure be limited to 40 Ft. WG (120kPa, 17.3PSI). If a higher pump head is encountered it is recommended that a differential by-pass valve be installed.

MATERIALS

- VALVES:**
- Body: Nickel Plated Gunmetal
 - 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
- Black Glass Filled High Temperature Resistant Isolator
- White Dial Knob
- Plated Steel
- Nickel Plated Brass Attachment Nut.

CONTROLLED AIR TEMPERATURE SETTING RANGE

Operator No. Temperature Range

5201	43°F- 84°F (6°C- 29°C)
5203	43°F- 81°F (6°C- 27°C)
5206, 5211	43°F- 86°F (6°C- 30°C)

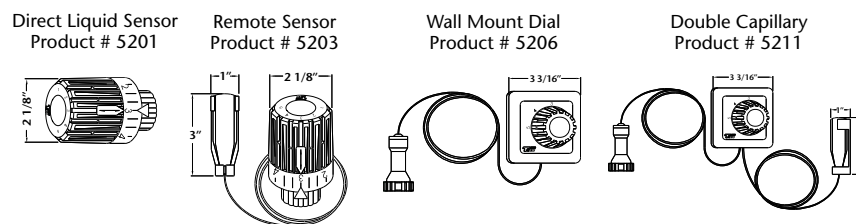
TEMPERATURE CONTROL RANGE (APPROXIMATE)

Dial Setting	*	1	2	3	4	5
Temp, °F	43	54	61	68	75	82
Temp, °C	6	12	16	20	24	28

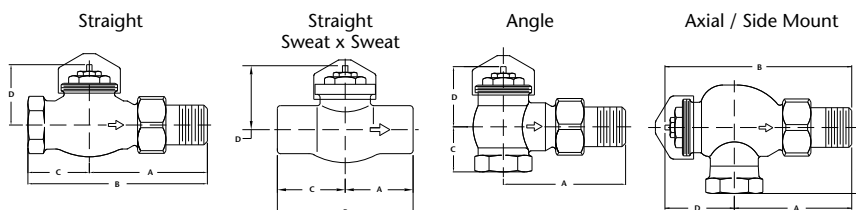
NON-ELECTRIC THERMOSTATIC RADIATOR VALVES

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



VALVE DIAGRAMS



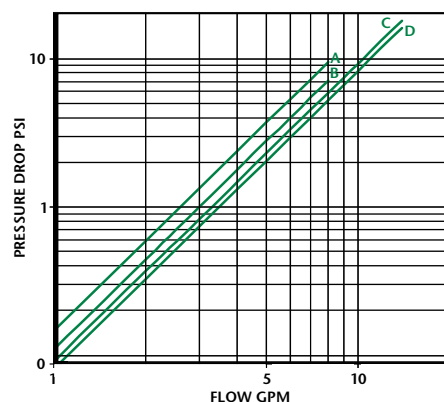
PERFORMANCE FIELD, WATER (valves fully open)

A= 1/2" Straight C= 3/4" Straight
B= 1/2" Angle & Axial D= 3/4" Angle & Axial

PERFORMANCE FIELD, STEAM (valves fully open)

VALVE SIZE	2PSI	4PSI	6PSI	8PSI
1/2"	73	98.5	115.5	127
3/4"	76	103	120.5	132.5*

*Thousands of BTU/Hour shown in Table



DIMENSIONS

VALVE TYPE	CONNECTION SIZE	PRODUCT NUMBER	VALVE DIMENSIONS				DIMENSIONS W/OPERATORS*	
			A	B	C	D	5203, 5201	5206, 5211
Straight	1/2" Sweat	5321-C1	2 3/32	3 13/32	1 5/16	1 13/32	4 1/8	3 1/4
	1/2" NPT	5321	2 1/8	3 5/8	1 7/16	1 3/8	4 1/8	3 1/4
	3/4" Sweat	5331-C1	2 21/32	4 11/32	1 11/16	1 7/6	4 3/16	3 5/16
	3/4" NPT	5331	3	4 9/32	1 11/16	1 7/16	4 3/16	3 5/16
Angle	3/4" CxC	5234	1 3/8	2 3/4	1 3/8	1 7/16	4 3/16	3 5/16
	1/2" NPT	5323	2 3/16	—	1 5/16	1 13/32	4 1/4	3 1/4
Axial	3/4" NPT	5333	2 13/16	—	1 11/16	1 13/32	4 1/4	3 1/4
	1/2" NPT	5322	1 1/8	3 23/32	1 1/16	1 23/32	4 1/2	3 1/2
	3/4" NPT	5332	1 5/16	4 7/16	1 1/8	1 7/16	4 3/4	3 3/4

*Dimension measured from center line of the valve to end of the operator with the operator mounted and set at 3. Allow 5/8" clearance beyond dimension for assembly.

NOTE: Allowances must be made in the selection of the valve body configuration in order to fully extend the 5216 In-Line Cartridge Changing Tool a minimum of 16" to remove and replace the cartridge.

FOR MORE INFORMATION:

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