

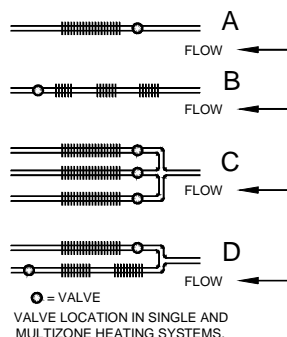
Taco Heat-Gard Series "54" Valves

Operation

The *Heat-Gard Series "54"* valve is designed to save energy by controlling hot water or low pressure steam heat in freestanding radiators, convectors, baseboards, fan coil units and the like in a loop, a zone or a unit. The valve, coupled with a *Heat-Gard Series "54"* operator, provides a reliable automatic modulating unit. As room temperature drops, the *Heat-Gard Series "54"* valve opens to allow more hot water or steam to flow through the radiator, thus allowing more heat into the room. When the room approaches the selected temperature, the operator causes the valve to begin closing off the flow of hot water or steam. This continued monitoring of the temperature is fully automatic, using no electricity whatsoever. The *Heat-Gard Series "54"* valve can be equipped with any wide variety of *Heat-Gard Series "54"* operators.

Features

- Compact dimensions
- Replaceable insert
- Stainless steel spindle
- Individual room control
- Easy one-trade installation
- Fuel savings up to 30%
- Prevents over- and under-heating
- Helps balance the heating system
- Same valve used for hot water or low pressure steam
- All NPT are forged brass nickel-plated
- Minimizes or eliminates expansion noises
- Suitable for nearly any hydronic heating application
- Operators can be changed without draining the system
- Shipped with a protective cap that can be used to control heating during the installing period



Vertical angle valve with straight nipple. NPT - female inlet, male union outlet.



5423 - 1/2"
5433 - 3/4"
5443 - 1"
5453 - 1-1/4"

Straight valve with straight nipple. NPT - female inlet, male union outlet.



5421 - 1/2"
5431 - 3/4"
5441 - 1"
5451 - 1-1/4"

Horizontal angle valve with straight nipple. NPT - female inlet, male union outlet.



5422 - 1/2"
5432 - 3/4"
5442 - 1"
5452 - 1-1/4"

Sweat valve with female inlet and outlet



5424 - 1/2"
5434 - 3/4"
5444 - 1"

All Heat-Gard valves and thermostats conform to ASHRAE Standard 102P-1983 and European Standard EN 215/1215. We are also ISO 9001 certified (1994) and ISO 14001 certified (1998).

DATA for Taco Heat-Gard Series “54” Valves

Vertical Angle NPT

1/2", 3/4", 1", 1-1/4"

Straight NPT

1/2", 3/4", 1", 1-1/4"

Horizontal Angle NPT

1/2", 3/4", 1", 1-1/4"

Straight Female Sweat

1/2", 3/4", 1"

Disc Material: EPDM

Body Styles: Straightway or angle

Maximum steam pressure: 15 psig

Maximum static pressure: 145 PSI

Maximum water temperature: 250°F

Body tappings: Female inlet, male union outlet, Female sweat

Body Material: Forged brass, NPT valves are nickel-plated

Max. Differential pressure: 20 psi H₂O, refer to thermostat specs

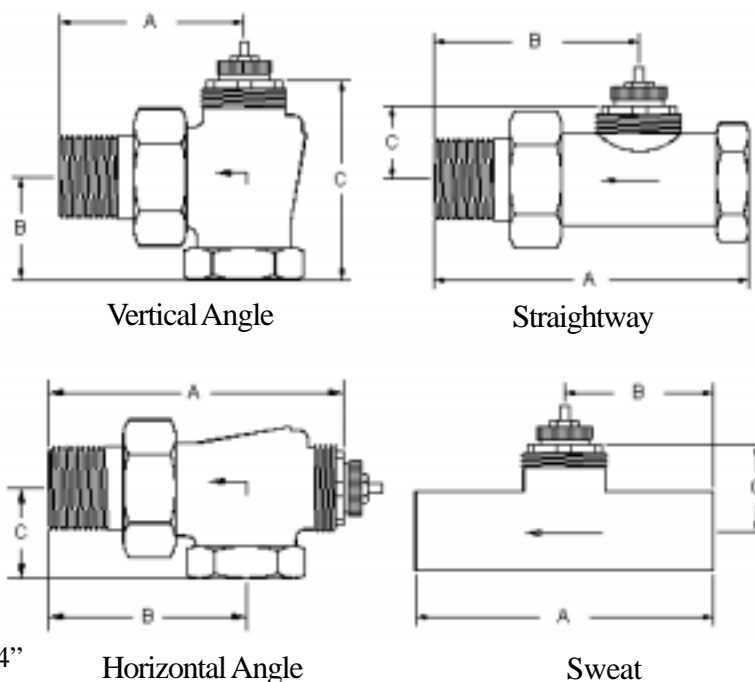
Suggested Differential Pressure = 0.5 to 2.9 psi

Overall Height: Add thermostat dimensions less 1/4"

Taco Heat-Gard Series “54” Valves are in an open position when no operator is attached.

CV:

1/2"	= 1.8
3/4"	= 2.5
1"	= 2.74
1-1/4"	= 3.5



DIMENSIONS

VERTICAL ANGLE

BODY #	SIZE	A	B	C
5423	1/2"	2-1/4"	1"	1-3/4"
5433	3/4"	2-1/2"	1-1/8"	2-1/8"
5443	1"	3"	1-3/8"	2-1/4"
5453	1-1/4"	3-1/4"	1-3/4"	2-3/4"

STRAIGHTWAY

BODY #	SIZE	A	B	C
5421	1/2"	3-1/2"	2-1/16"	1"
5431	3/4"	4"	2-1/2"	1"
5441	1"	4-5/8"	2-15/16"	1"
5451	1-1/4"	5-1/4"	3-3/8"	1-1/8"

HORIZONTAL ANGLE

BODY #	SIZE	A	B	C
5422	1/2"	3-3/8"	2-3/16"	1-1/2"
5432	3/4"	3-3/4"	2-1/2"	1-1/4"
5442	1"	4-3/16"	3"	1-3/8"
5452	1-1/4"	4-3/4"	3-1/4"	1-7/8"

SWEAT VALVES

BODY #	SIZE	A	B	C
5424	1/2"	2-3/16"	1-3/32"	1"
5434	3/4"	2-11/16"	1-11/32"	7/8"
5444	1"	3-5/32"	1-9/16"	1"