



OPERATION

The Macon one-pipe steam valve assembly consists of the reliable DTW direct mounting thermostat. The thermostatic head contains a temperature sensitive wax which expands and contracts on a rise and fall of temperature in the sensed area. When the temperature rises above the temperature selected, pressure from the expanding wax closes the valve, preventing or restricting the flow of steam through the radiation unit. When the room temperature drops below the selected temperature, the valve opens and allows an increase of steam flow through the radiation unit. This modulating process continues automatically to maintain the temperature you selected. The OPSK controls room temperature by regulating the amount of air and steam in the radiator.

FEATURES & BENEFITS

- Compact dimensions
- Nickel-plated, forged brass valve
- Thermostat may be locked at or limited to any desired temperature or temperature range
- Actuators may be changed without shutting down the system
- Valve may be installed by dropping the system down to zero pressure
- Individual room control for greater comfort
- Replaceable insert
- Stainless steel spindle
- Fuel savings up to 30%
- Nonelectric - fully automatic
- Prevents over- and under-heating
- Reliability
- Remote thermostats available - call or write for the distributor nearest you!
- Vent and vacuum breaker included
- The OPSK helps to minimize large temperature swings inherent in one pipe steam systems.

OPTIONS

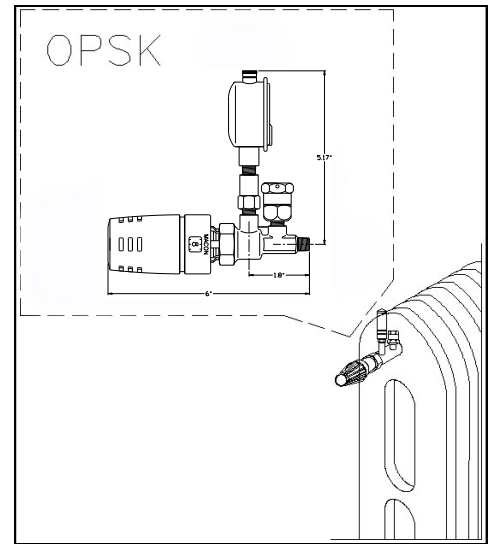
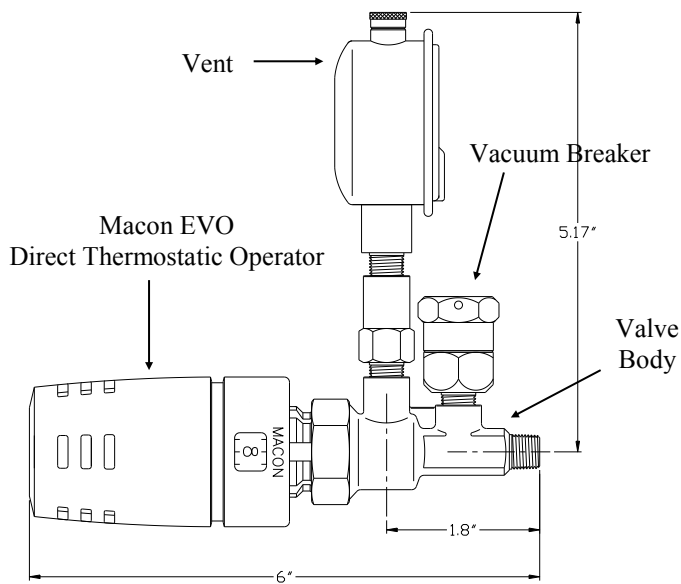
The OPSK can be fitted with the following thermostatic operators:

- EVO (Standard) - direct mount
- EVO-Z (MTWZ) - direct mount
- w/remote sensor
- ENTL - remote dial
- ENTLZ - remote dial w/remote sensor
- VA & VM Series - electric actuator
- Other operators available - contact factory

Important:

1. Installing the OPSK does not eliminate other controls in the system. The boiler must be cycled in some manner so that condensate can return to the boiler and eliminate boiler flooding.
2. If the boiler is cycled from a space thermostat in one zone, do not apply a radiator valve to that zone's radiation.
3. Do not apply a radiator valve in a one-pipe steam system that does not use steam air vents venting to the atmosphere on each radiation unit.
4. The VB-18 vacuum breaker is recommended and assists in the return of condensate. Integral installation reduces vacuum problems.
5. Very effective with system pressure range 0-1½ PSI. Suggested maximum operating pressure 2 PSI.





ONE PIPE
STEAM

TECHNICAL DATA - One-Pipe Steam Valve Assembly

Maximum Temperature	248°F
Disc Material	EPDM
Valve Body Material	Forged, nickel-plated brass
Body Style	Straight Pattern
Connections	1/8" male NPT, fits in vent tapping of the radiator
Temperature Setting Range	46°F to 79°F
Maximum Movement	0.125" (3mm)
Movement per 1 °F change in ambient	.007 (.15mm)

TECHNICAL DATA - EVO

Temperature Setting Range	46°F to 79°F	Material	Engineered heat resistant thermoplastic (PBT,POM)		
Maximum Storage & Ambient Temp.	122°F			Nut	Low Lead Brass
Maximum Water Temp.	250°F			Weight	4.16 oz.
Maximum Steam Pressure	15 psig			Color	White
Maximum Differential Pressure	20 psi			Width (A)	1.73"
Suggested Differential Pressure	0.5 to 2.9 psi			Height (B)	3.66"
Max. Movement	0.125"				
Nominal Opening	0.018 (3.6°F)				
Long Term Test	5000 Cycles (1.3°F)				

DIAL SETTINGS - Room temperature - °F

0	*	1	3	5	6	7	8	9
Off	46	50	57	64	68	72	75	79
	Frost Protection							

