



MARSHALL ENGINEERED PRODUCTS CO.

## SWRF-B CONVERSION KITS

### "The Best of Two Technologies!"

For over 80 years the Dunham-Bush(Mepco) SWRF-B radiator valves have provided balanced steam heat with its adjustable orifice technology. Now you can enhance its performance by adding a thermostatic valve actuator. The body, with its external regulating valve to balance the system stays in place and the valve bonnet is upgraded to accept our self regulating thermostatic actuator to sense ambient room temperature to close the valve when the desired room temperature is achieved thereby maximizing your energy savings.

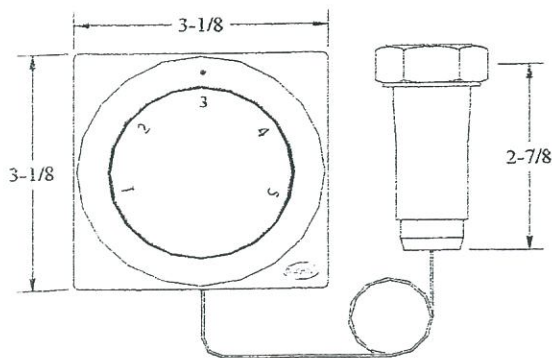
Available with unit mounted sensor, remote sensor and wall mounted remote bulb designs to provide consistent room temperature from all styles of radiation and finned tube.

### FEATURES

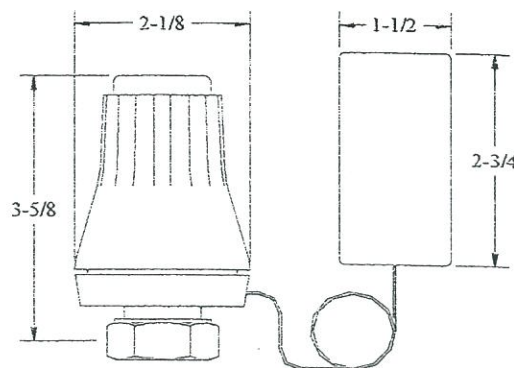
- Solid Brass Construction with Stainless Steel Trim
- Adjustable Temperature Range 45 to 86 degrees F



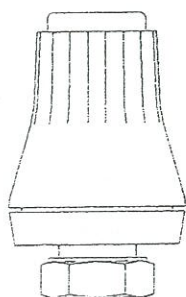
- Sturdy EPDM valve disc for positive closing
- Fast Acting Modulating Control



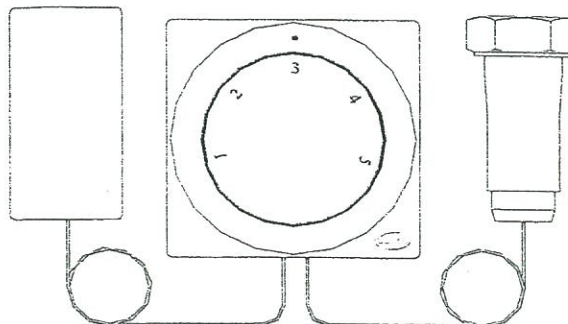
THVLB - WALL MOUNT REMOTE BULB



THVLR - REMOTE SENSOR



THVLI - INTERNAL SENSOR



THVLC - WALL MOUNT DUAL CAPILLARY



# Thermostatic Radiator Valve

MARSHALL ENGINEERED PRODUCTS CO.

## Actuators & Bodies Part Numbers

### Thermostatic Radiator Valve Bodies (THV)

#### Straight Pattern Body (S)

Item Number	Size	Model
130-001	1/2"	1/2" THVZST
130-002	3/4"	3/4" THVZST
130-003	1"	1" THVZST
130-004	1-1/4"	1-1/4" THVZST

#### Straight Pattern Body (S)

Item Number	Size	Model
130-005	1/2"	1/2" THVZSS
130-006	3/4"	3/4" THVZSS
130-007	1"	1" THVZSS
130-008	1-1/4"	1-1/4" THVZSS

#### Angle Pattern Body(A)

Item Number	Size	Model
130-009	1/2"	1/2" THVZAT
130-010	3/4"	3/4" THVZAT
130-011	1"	1" THVZAT
130-012	1-1/4"	1-1/4" THVZAT

#### Angle Pattern Body(A)

Item Number	Size	Model
130-013	1/2"	1/2" THVZAS
130-014	3/4"	3/4" THVZAS
130-015	1"	1" THVZAS
130-016	1-1/4"	1-1/4" THVZAS

#### Reverse Angle Pattern (R)

Item Number	Size	Model
130-017	1/2"	1/2" THVZRT
130-018	3/4"	3/4" THVZRT
130-019	1"	1" THVZRT

#### Reverse Angle Pattern (R)

Item Number	Size	Model
130-020	1/2"	1/2" THVZRS
130-021	3/4"	3/4" THVZRS
130-022	1"	1" THVZRS

#### Angle Steam Vent Body (V)

Item Number	Size	Model
130-027	3/8"	3/8" THVV

### Thermostatic Radiator Valve Actuators (THV)

#### Internal Sensor (I)

Item	Item No.	Cap	Model
Liquid Element (LI)	130-028	None	THVLI

#### Remote Bulb (R)

Item	Item No.	Cap	Model
Liquid Element	130-029	6'	6' THVLR

#### Wall Mounted (LB)

Item	Item No.	Cap	Model
	130-030	6'	6' THVLB
	130-031	16'	16' THVLB
	130-032	32'	32' THVLB

#### Wall Dual Capillary (LC)

Item	Item No.	Cap	Model
	130-033	6'	6' THVLC

Note: A complete thermostatic radiator valve includes a valve body and an actuator.

Marshall Engineered Products Company

Industry Leaders in the Design and Manufacture of Engineered Steam & Hydronic Solutions

3695 44th Street SE  
Grand Rapids, MI 49512

www.mepcollc.com email: Mepco@mepcollc.com



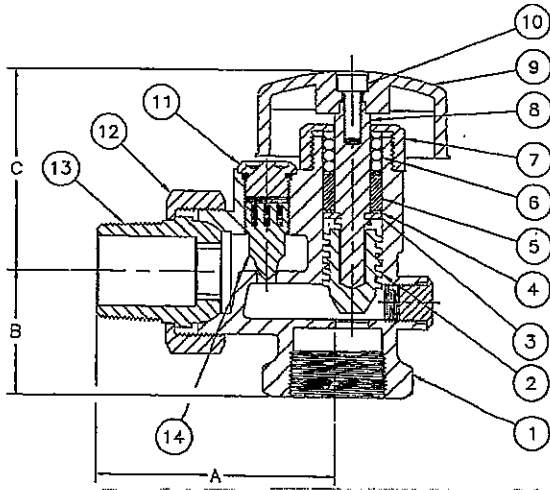
MARSHALL ENGINEERED PRODUCTS CO.



## INSTALLATION INSTRUCTIONS DUNHAM-BUSH (MEPCO) SWRF-B CONVERSION KIT

(Note: Steam MUST be shut off prior to starting work!!!)

### Existing Mepco Valve



### Converted Mepco Valve



#### A.) Begin by removing the “Packless” Valve Parts as follows:

- Unscrew the wheel handle screw (10) and lift off the wheel handle (9).
- Remove the packing nut (7) and pull out the valve stem (8). This will also take the washers, spring and packing with it (parts 4, 5 and 6)
- To remove the existing valve plug (2) insert a flat screw driver into the rectangular hole and turn it out (counter clock wise). This will leave you with the following parts pictured below.



Manufacturers  
Representative For:



(Formerly Dunham Division of Dunham-Bush Inc.)

MARSHALL ENGINEERED PRODUCTS CO.

-Inspect the seating surface of the original valve seat for excess wear or corrosion. If necessary use a factory available reseating tool to renew the surface and remove any resulting debris.



## B.) Conversion Kit Installation

-Slide the Valve Adapter Stem into the body as shown below making sure the O-Ring on the bottom is intact. It should turn freely inside the body.



-Install the supplied O-Ring over the male thread of the valve body as shown above.

-Apply Loctite to the male thread of the valve body prior to screwing the valve adapter onto the valve body with a 1 1/32" wrench. It will thread freely down onto the o-ring and capture it in the o-ring groove on the end of the adapter. Once you have brass to brass seating and you can't see the o-ring tighten the adapter 1/8 to 1/4 additional turn (22-26 ft/#) to seal the adapter to the body. The resulting assembly will look as follows:





-You can now install the Mepco Thermostatic Actuator of your choice.