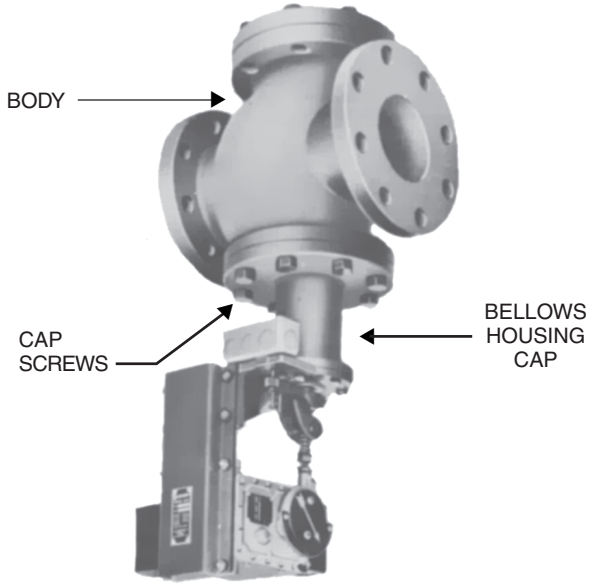
DUNHAM LLC
THE STEAM HEATING PROFESSIONALS
Manufacturers Representative For: MEPCO MARSHALL ENGINEERED PRODUCTS CO. Vent-Rite VARI-VAC® ELGE®
25-70 Ulmer St., College Point, NY 11354 • Phone 718-886-4232 • Fax 718-886-4301

VARI-VAC SECTION
Type RTMS Control Valve



Type RTMS Control Valve

APPLICATION

The **MEPCO Control Valve (Type RTMS)** is mounted in the zoned steam supply line as close to the main steam supply header as possible. It is used to control the amount of steam flowing into the zoned piping. It's opening and closing is controlled by the control center. It not only receives information, but also sends information to the control center indicating the degree that the valve is open, to allow the heat supply to be continuously controlled to exactly equal the heat losses through all extremes of weather.

CONSTRUCTION FEATURES

RUGGED CONSTRUCTION

Material:

Valve Body	Class 30 C.E.
Inner Valve	Naval Bronze
Valve Seat	Naval Bronze

Configuration

Valve Body	Flanged 125# Ansi
Inner Valve	Ported Sleeve Type
	Single Seat through 3"
	Double Seat 4" through 10"

UNIQUE DESIGN - Parabolic contour inner valve provides a linear curve when percent flow varies directly with percent of valve opening. IE: 40% open = 40% capacity. The ported sleeve inner valve provides a flexible throttling action from design demand through mild weather (low heat requirements.)

VALVE OPERATION - The operator linkage is of the short coupled design. The eccentric is rotated by a low voltage reversing motor controlled from the Panel. Adjustable limit switches open the circuit when the motor has traveled to its limit in either direction.

FLEXIBILITY - The ported sleeve inner valve provides the throttling action through the full range of steam flow, particularly when the demand for heat is light and the rate of steam flow is small.

CONTINUOUS FLOW - This throttling gives a continuous flow of steam and does not require periodic closing of the valve to prevent overheating in mild weather.

VALVE POSITION INDICATOR - The inner valve lift from the seat, in percent of the maximum possible lift, is indicated by a pointer mounted on the linkage eccentric.

RELIABILITY - The use of a bellows connection eliminates all packing around the stem and insures against air leakage when operating under a vacuum.

INSTALLATION

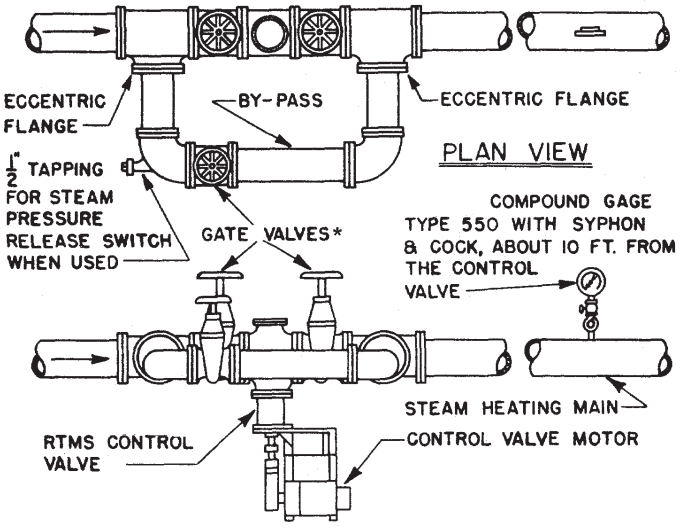
Install the Control Valve in an accessible location in the steam supply main in accordance with the typical installation details shown on reverse side or where shown on the plans or as directed.

If the location of the Control Valve will be such that the dial and pointer which indicates the percentage of valve opening cannot be easily seen from a convenient location, this can be easily corrected. To do so, remove the cap screws from the upper flange of the bellows housing and turn the lower valve assembly to any desired position within limits of the bolt holes. Allow the flange to drop away from the body of the valve only enough to allow clearance between the gasket and one of the castings after having separated the gasket from either of the casting.

DO NOT ATTEMPT TO MAKE THIS CHANGE AT THE BELLOWS HOUSING CAP AS DAMAGE TO THE BELLOWS WILL RESULT.

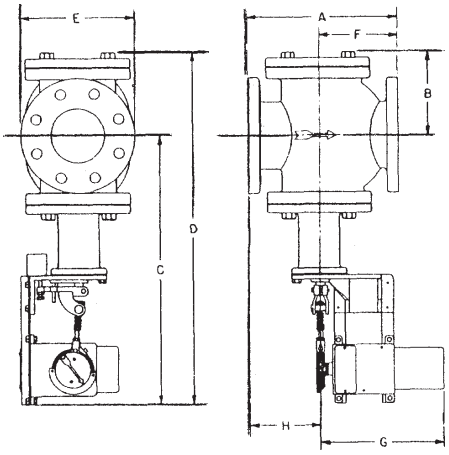
The protective covering shipped on the motor should not be removed until the electrician is ready to make the final wiring connections.

PIPING DETAILS - RTMS CONTROL VALVE



*INLET/OUTLET VALVES MUST BE FLANGED GATE TYPE. FULLY LUGGED VALVES NOT RECOMMENDED.

ROUGHING IN DIMENSIONS - RTMS CONTROL VALVE



CONTROL VALVE SIZE IN.	CAPACITY SQ. FT. EDR*	SIZE OF BYPASS INCH	DIMENSIONS IN INCHES							
			A	B	C	D	E	F	G	H
1-1/2	2,200	1	7-3/4	4	18-11/16	22-11/16	5	3-7/8	9-13/16	3-7/8
2	4,000	1-1/4	8-3/8	4-3/16	18-7/8	23-1/16	6	4-3/16	9-13/16	4-3/16
2-1/2	5,500	1-1/2	9	4-3/4	19-7/16	24-3/16	7	4-1/2	9-13/16	4-1/2
3	9,700	2	10-1/4	5-1/8	19-13/16	24-15/16	7-1/2	5-1/8	9-13/16	5-1/8
4	13,500	3	12	6-7/16	20-15/16	27-3/8	9	6-5/16	9-13/16	5-11/16
5	17,300	3	13	7-3/16	21-11/16	28-7/8	10	7-3/8	9-13/16	5-5/8
6	28,000	4	14-3/4	8-1/8	22-5/8	30-3/4	11	8-3/4	9-13/16	6
8	36,000	5	19	10-1/8	24-7/16	34-9/16	13-1/2	10-3/8	9-13/16	8-5/8
10	56,000	6	19-1/2	11-9/16	25-7/8	37-7/16	16	11-13/16	9-13/16	7-11/16

NOTE: If clearance beneath the valve is a problem and the valve cannot be installed with the motor beneath the steam main, it may be swung 180 degrees and installed with the motor above the steam main. The valve should not be installed in a horizontal or any other position off the vertical because of added wear on internal parts of the valve. The necessary dimensions for layout of this work are shown on reverse side of this page.

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