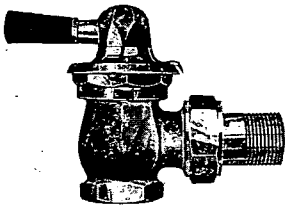
MARSH SYSTEM UNIT RADIATOR VALVES

Description



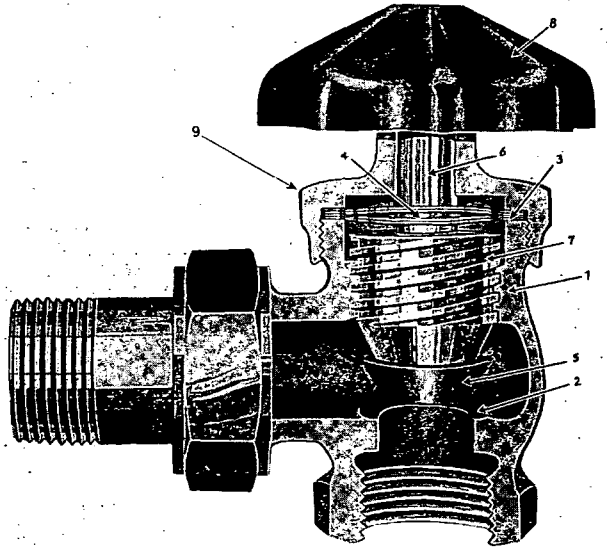
Marsh System Unit Radiator Valve

This unit, the Marsh Radiator Supply Valve, functions to control the operation and heat output of the individual radiator. As supplied in the illustrated graduated pattern the valve can be operated to restrict the flow of steam and as a result the heat output of the individual radiator as required. Also to shut off valve or to open full. The octagonal body lines of the Marsh System Unit Radiator Valve blend perfectly with the lines found in the modern tubular radiator, and as installed on the radiator in combination with the Marsh System Unit Radiator Trap, has a decided effect upon the appearance of the radiator as a whole. In direct contrast with surrounding interior decorations, the Marsh System Unit Radiator Valve stands out in pleasing relief in a two-tone chrome or nickel finish; the body in satin and the bonnet and tailpiece in polished finish. A handle of futuristic design crowns the Marsh Radiator Valve, lending itself to easy opening or closing of the valve.

The interior construction of this valve is unique, utilizing two monel metal discs and two stainless steel discs as the packless feature, which makes possible the elimination of the conventional spring, composition packing glands, bellows or multiple diaphragms found in most radiator valves today.

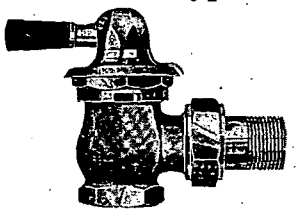
Bodies are regularly finished in angle, straightway, offset and right and left-hand corner types in sizes ranging from ½ inch to 2 inches inclusive.

Construction

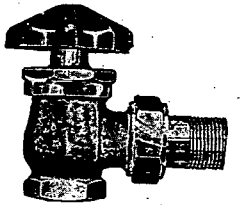


The body of the valve (1) is a steam bronze casting accurately machined and tested to 125 pounds pressure. The valve seat (2) is bu lt integrally into the valve body and in combination with the Flexcone valve disc (5) permits a large, full capacity flow through the valve. The lift thread in which the thrust screw (7) operates is cut integrally into the main body casting allowing a large deep thread and adding strength to the body casting. The patented Flexcone valve seat (5) is a drawn monel metal spring cup permanently riveted to the thrust screw. Integrally incorporated in the valve stem is a machined stem collar (4) which in conjunction with the Metalflex sealing discs (3) serve to make the valve perfectly packless. These sealing discs consist of two sets of thin metal diaphragms. The valve bonnet (9) is screwed onto the valve body around the valve stem (6), lining up the latter and at the same time compressing the upper set of Metalflex discs against the lower set, forming a perfect seal. The valve wheel (8) is made of Bakelite.

Different Types of Marsh System Unit Valves

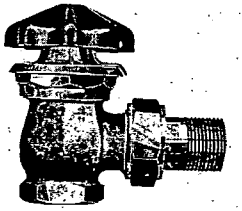


No. 102 Series (Lever Handle Graduated)



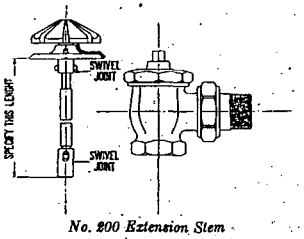
No. 100 Series (Oval Wheel Packless)

In the Marsh Graduated Type Packless Radiator Valve a means is provided whereby the total capacity of the valve is adjusted in proportion to the size of the radiator, operating the valve so as to limit the flow through the valve in quantities graded approximately according to weather requirements. The Flexcone valve disc, together with the valve seat, form an orifice arrangement which as the Flexcone valve disc is raised and lowered modulate the area through which the steam or liquid can flow and graduate the capacity of the valve.



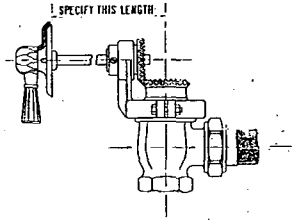
No. 101 Series (Oval Wheel—Graduated)

Radiator Valve Accessories



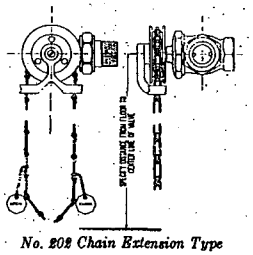
No. 200 Extension Stem

The unique universal swivel joints permit the handle of the extension to be located in an off center position where desired. Furnished with wheel or lever handle, indicator and dial and with extension rod in standard lengths which can be cut to correct lengths on the job. The entire distance of extension, as shown in the illustration, should always be specified for each valve.



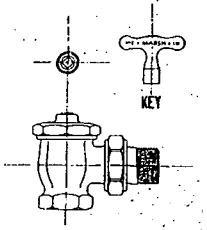
No. 201 Geared Extension Stem

This attachment permits installation of the wheel or lever, together with dial and indicator, on the face of the enclosure regardless of the type or position of the valve and is particularly adapted to use with concealed radiation. Furnished with wheel or lever handle, indicator and dial and with extension rod in standard lengths which can be cut to correct length on the job. The entire distance of extension should be specified for each valve.



No. 202 Chain Extension Type

For all sizes and types of Marsh Valves. Adaptable to use where radiators are located on the ceiling or on the wall near the ceiling out of reach. Consists of grooved sprocket operated by chain belt, requiring a minimum turn to open or close valve. Chain is furnished in any length to meet conditions for which it is intended, complete with tags indicating "open" and "closed" position.



No. 103 Lock Radiator Valve

The Marsh No. 103 Lock and Shield Radiator Valve can be furnished in all patterns and all sizes up to 2 inches, and No. 104 Graduated Lock and Shield Valves. Separable key permits only authorized persons to change the required setting of the valve.