

For Balancing and Flow Measurement Applications

Job Name _____
 Job Location _____
 Engineer _____
 Approval _____

Contractor _____
 Approval _____
 Contractor's P.O. No. _____
 Representative _____

Insulation Systems

Sizes: 2½" – 6" (65 – 150mm)

Watts Insulation Systems are available in sizes 2½" – 6" (65 – 150mm) to suit series CSM-91 circuit balancing valves and series TDV Triple Duty Combination Valves.

The outside shell is a preformed, removable PVC jacket to meet ASTM D 1784/class 14253-C, MEA #7-87, ASTM-E-84 and ASTM-136 with a flame spread rating of 50 or less. There is provided sufficient mineral fiberglass insulation to meet ASHRAE 90.1-1989 specifications in operating conditions with Maximum Fluid Design Operating Temperature Range of 141°F – 200°F (61°C – 93°C) and Mean Rating Temperature of 125°F (52°C).

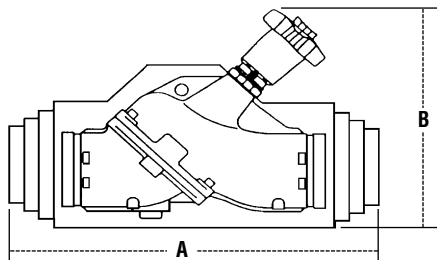


CSM-91-INS

Materials

Outside Shell (2): Zeston 2000 PVC
 Insulation Batten: Mineral Fiberglass
 Fastener (4): Stainless steel

Dimensions



Size (DN)	Dimensions				L x W x T	
	A		B		Insulation Batten Size	
in.	mm	in.	mm	in.	mm	
2½	65	20½	521	10	254	32 x 15 x 1½ 813 x 381 x 38
3	80	20	508	11	279	37 x 15 x 1½ 940 x 381 x 38
4	100	22½	572	12½	318	40 x 17 x 1½ 1016 x 432 x 38
5	125	26	660	14	356	48½ x 21 x 1½ 1232 x 533 x 38
6	150	30½	775	16	406	51½ x 22½ x 1½ 1308 x 572 x 38

Installation Instructions

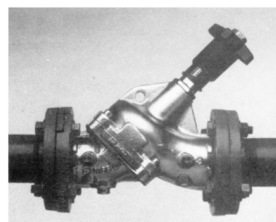


Fig. 1

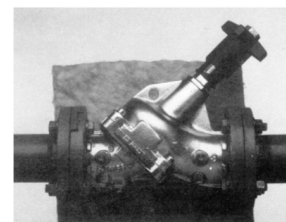


Fig. 2

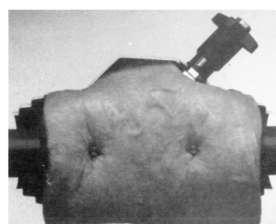


Fig. 3

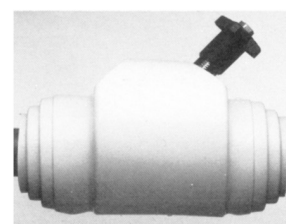


Fig. 4

1. Wrap fiberglass insulation around valve keeping insulation tight around valve neck and body as shown in figs. 2 & 3.
2. Cut out insulation around pressure taps so that when diagnostic checks are required, plugs are visible when outside shell is removed as shown in fig. 3.
3. Slide 2-Piece outer shell over insulation snugly and then use fastening tacks on top and bottom to secure shell as shown in fig. 4.

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