

For Balancing and Flow Measurement Applications

Job Name _____
 Job Location _____
 Engineer _____
 Approval _____

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

Series CSM-61-T Flow Measurement Valves

Sizes: 1/2" – 3"

Series CSM-61-T Flow Measurement Valves are designed for application on low or medium flow rate HVAC units recirculation system. Their compact size allows for easy installation and use in crowded piping compartments. The CSM-61-T's ball-type design, extended throttling range, and large indicator plate, make for accurate flow measurement, even in very low flow ranges.

The CSM-61-T's positive memory feature is easy to see, access, and operate, facilitating system balancing and flow measurement. These valves are also bi-directional, so there is no chance of installing the valve in the incorrect flow direction.

Series CSM-61-T valves provide positive shutoff, eliminating the need for a separate service valve. These valves are also provided with blowout resistant stems.

Features

- Flow measurement
- Easy to use memory
- Bi-directional flow
- Positive shutoff
- Safe "blowout" resistant
- Integral drain port

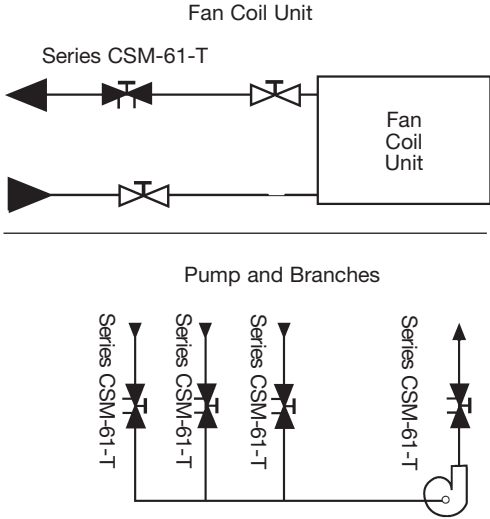
Applications

- Fan coil units
- Water source heat pumps
- Reheat coils
- Panel coils
- Small branch lines
- Unit heaters
- Unit ventilators
- Finned radiation
- Small domestic hot water lines
- Convector
- Small pumps



CSM-61-T

Typical Installation



NOTICE

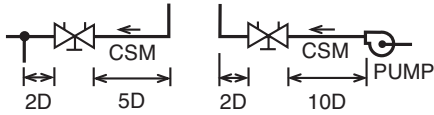
The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.



Specifications

A flow measurement valve shall be installed on each hot/chilled water unit or as otherwise shown on plans. The valve shall be of the bi-directional, blow-out resistant, tight shutoff, ball design, with position indicator, memory device, checked metering ports with drip caps and integral drain ports opposite the metering ports. The valve shall be a Watts Series CSM-61-T.



Materials

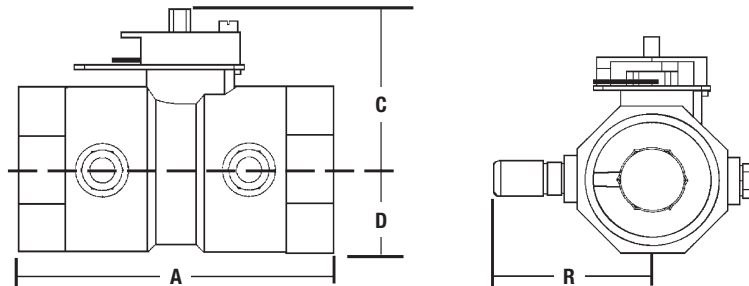
Housing/Body	Bronze
Packing Material	Viton® ½" – 2" Neoprene 2½" – 3"
Pressure Taps	Brass ¼" SAE 45° Flare
Seats	Carbon/Glass filled PTFE - ½" – 1", 3" Virgin PTFE 1¼" – 2"
Drain Plug	Brass

Pressure -Temperature

Pattern	Size	Working Temp		Max. Working Pres.	
		°F	°C	psi	bars
Thread	½"-3"	250	121	300	21

Viton® is a registered trademark of Dupont Dow Elastomers

Dimensions - Weights



MODEL	SIZE	DIMENSIONS								WEIGHT	
		A		C		D		R		lbs.	kgs.
	in.	in.	mm	in.	mm	in.	mm	in.	mm		
CSM-61-M1-T	½	2¾	60	1⅝	41	½	13	1¼	45	1.0	0.45
CSM-61-M1-T	¾	2⅝	67	1⅞	43	⅞	15	1⅞	47	1.3	0.59
CSM-61-M1-T	1	3⅞	80	1⅞	47	1⅜	20	2⅛	52	1.9	0.86
CSM-61-M1-T	1¼	3¾	94	1⅞	47	1	25	2⅝	56	1.9	0.86
CSM-61-M1-T	1½	3⅝	100	2	50	1⅞	27	2⅝	59	2.3	1.04
CSM-61-M1-T	2	4½	114	2⅞	66	1⅝	33	2⅞	66	4.0	1.81
CSM-61-M1-T	2½	6½	165	4⅞	104	2⅞	55	3⅞	80	13.0	5.90
CSM-61-M1-T	3	6⅜	173	4⅞	112	2⅞	73	3⅞	92	17.0	7.71



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