

oventrop





Valve insert cartridge

The heart of the Oventrop radiator valve is the insert. All the working functions of the valve have been incorporated into a removable cartridge. This cartridge is designed to be removed with the aid of a service tool that allows the system to remain in operation during maintainence. All Oventrop valve inserts are made with dezincificationresistant bodies and stainless-steel stems. All stems are constructed with a double o-ring seal to increase service life and decrease the potential for leaks. The Oventrop valve insert is universal to all Oventrop radiator valve bodies. A single sized insert is designed to operate in all Oventrop two-way radiator valve bodies.

Thermostatic proportional control, 2K.

The typical room thermostat controls the heat to a room by sensing whether the room is too cold or too hot. When the room is too cold, the thermostat signals to the heating system to send all the heat possible to the room. Once the thermostat senses that the room is too hot, it signals the heating system to shut off all the heat going to the room. This cycle continues to keep the room at the desired temperature. By its nature this method of control causes temperature swings and does not keep a steady desired temperature.

A thermostatic radiator valve is a proportional control device. It is designed to maintain a steady desired temperature. As the thermostat senses the room growing colder, it allows only a matching flow of heat into the room. This method creates an even, comfortable, desired temperature in the room.

Oventrop radiator valves are rated to deliver the full flow of heat to the room only when the room temperature drops 3.5 °F (2K) or lower below the desired temperature. For room temperatures closer to the desired temperature, the thermostat allows only allows a proportionally smaller amount of heat into the room. Because the heat flow into the room is controlled precisely, there is minimal fluctuation in room temperature.

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oventrop		Steam Radiator Valve Part No. 189
Job Name:	Submitted by: Spec Section:	Date:
Job Location:	Engineer/Architect: Approval:	Date:
Stainless steel stem Setting nut Body seal Insert thread Ajustable size Insert inlet	ing O-Ring	ve closed

Setting	1	2	3	4	5	6
Recommended flow range [GPM]	0.04 - 0.11	0.13 - 0.34	0.24 - 0.62	0.34 - 0.88	0.43 - 1.11	0.50 - 1.28
Full flow recommended range [GPM] 0.69 - 1.77						0.69 - 1.77
Assumes DP of 0.44 to 2.9 PSID						

Setting	1	2	3	4	5	6
2K Cv	0.064	0.197	0.363	0.517	0.65	0.75
Cv full						1.04

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	Recommended flow range [GPM]	0.04 - 0.11	0.13 - 0.34	0.24 - 0.62	0.34 - 0.88	0.43 - 1.11	0.50 - 1.28
Full flow recommended range [GPM]						0.69 - 1.77	
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Setting 1 2 3 4 5 6 2K Cv 0.064 0.197 0.363 0.517 0.65 0.75 Cv full 1.04

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oventrop		Thermostatic Radiator Valve Inserts Specialty Valve Inserts Accessories
Job Name:	Submitted by: Spec Section:_	Date:
Job Location:	Engineer/Archi	tect:
	Approval:	Date:
Stainless steel stem Setting nut Setting nut Getting nut Setting nut	Body sealing D-Ring	<text><text><text><text><text><text><text></text></text></text></text></text></text></text>
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oventrop		Thermostatic Radia Speci	ator Valve Inserts alty Valve Inserts Accessories
Job Name: Job Location:	Submitted by Spec Section: Engineer/Arcl Approval:	: Da hitect:Da Da	ate:
Stainless steel stem	ly sealing Ring	 6 - "Series KT" Item no. 114 71 69 Opens valve upon rising room ter Designed for cooling applications thermostats. 2K Cv = 0.58 Maximum body pressure: Maximum pressure drop: Temperature range: 	nperature. using non-electric 145 PSI 14.5 PSID 14 to 250 °F

oventrop		Thermostatic Rac Spec	liator Valve Inserts cialty Valve Inserts Accessories
Job Name:	Submitted by	: ۲	Date:
	Spec Section:		
Job Location:	Engineer/Arc	hitect:	
	Approval:	C	Date:
Stainless steel stem Body O-Ri Unsert thr Valve dis	y sealing ing ead	 7 - "Special" Item no. 118 70 70 Reduced Cv to correct reversed hook-up. Provides a solution for installation of the valve to be corepiping the valve body. 2K Cv = 0.52 Maximum body pressure: Maximum pressure drop: Temperature range: 	supply/ return the reversed rrected without 145 PSI 14.5 PSID 35 to 250 °F



Thermostatic Radiator Valve Inserts Specialty Valve Inserts Accessories

Job Name: _____

Submitted by: _____ Date:_____

Spec Section:_____

Job Location: _____

- Engineer/Architect:_____
- Approval:____

Date:_____



1. After having removed the thermostat from the valve, slightly loosen the valve insert by means of a corresponding tool (M $30 \times 1.5 - 19 \text{ mm} / 30 \times 1 - 17 \text{ mm}$). The "Demo-Bloc" is now screwed onto the valve.



2. Where space is limited or where radiators are inside a casing, screw attachment of "DemoBloc" onto valve first.



3. Thread "Demo-Bloc" onto the coupling.



4. Introduce stem of the "Demo-Bloc" until it clicks into position. Unscrew valve insert and pull back stem slowly until it stops.



5. Close "Demo-Bloc" by means of the handle and drain the tool by opening the drain-off valve at the bottom.



6. Loosen the inner cap of the "DemoBloc" and remove the valve insert for replacement or cleaning. The re-installation is carried out in reverse order.

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Job Name:	Submitted by: Date:		
	Spec Section:		
Job Location:	Engineer/Architect:		
	Approval:	_Date:	

Failures of thermostatic radiator valves are frequently caused by impurities in the system (solder, dirt particles etc.). This may affect the shut-off function of the thermostatic radiator valve or may damage the seal of the valve disc.

The Oventrop "Demo-Bloc" allows a quick and simple exchange of valve inserts for repair or cleaning without the necessity to drain the system.

Moreover, Oventrop thermostatic radiator valves already installed may be upgraded with presettable valve inserts.

The "Demo-Bloc" may be used for all Oventrop valves of the series "AV 6", "ADV 6", "AZ", "S", "KT", "TM".



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C) ove	ntrop		Thermostatic Radiator Valve Inse Specialty Valve Inse Accessor	erts erts ries
Job Name:		Submitted by:	Date:	
		Spec Section:		
Job Location:		Engineer/Archite	ect:	
		Approval:	Date:	
Thermostatic radiator valve diffe This tool enables the system pre without the installation of extra p service tool can be used for com systems.	erential pressure measuring t issures to be verified at each pressure test ports. This missioning or trouble shooti	rool. radiator valve ng		
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Job Name:	_ Submitted by:	Date:
	_ Spec Section:	
Job Location:	_ Engineer/Archite	ect:
	_ Approval:	Date:
Image: Constraint of the second se	Image: Content of the second secon	Value outlet Image: Construction of the second of
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