



SERVICE BULLETIN

Model B Service Kit

When performance is on the line, rely on AMOT parts!

Valve Overview:

AMOT Model B Thermostatic Valves are 3-way, fully automatic fluid temperature controllers. These valves are suitable for process control and industrial applications where fluids must be mixed or diverted depending on their temperatures. They are used for reliable, automatic control of fluid temperatures in turbines, compressors and engine jacket water and lubricating oil cooling systems, as well as cogeneration systems.

Maintenance & Servicing:

When properly applied and installed, AMOT Model B Thermostatic Valves require minimal maintenance. Field adjustments are not required as the operating temperature of each valve is permanently set at the factory by trained technicians. Once installed, this valve will provide years of trouble-free service.

Over time, exposure to foreign chemicals and particulate matter as well as prolonged operation at extreme temperatures, pressures and flows may reduce the effectiveness of your control valve. At such time, AMOT thermostatic valves can be restored to original performance simply by installing an AMOT Thermostatic Valve Service Kit. Service Kits include all new thermostatic elements and seals and can be easily installed by unbolting the valve housing.

AMOT recommends servicing of thermostatic control valves with each regularly scheduled major overhaul of your turbine, engine, compressor or other associated equipment.

Thermostatic Service Kits may also be used for adapting valves to new service temperatures.

Service Kit Identification:

AMOT Thermostatic Valve Service Kit model numbers closely follow the valve model numbers for which they are associated.



First, identify your valve model, located on the valve nameplate. An example is shown below for a valve with model number 2BOCT18003C-RSK

Example Valve:

A	B	C	D	E	F	G	-H
2	BO	C	T	180	03	C	-RSK

A – Size

B – Configuration

C – Body Material

D – Connection Type

E – Temp (°F)

F – Element/Seal Material

G – Leak Hole

-H – Special (only as req'd)

For the corresponding Model B Service Kit, use the valve model, except replace the Body Material (C) and Connection (D) with “KIT-”. The corresponding service kit becomes:

A	B	C	D	E	F	G	-H
2	BO	KIT-		180	03	C	-RSK

In addition, some AMOT valves will contain “-00-AA” or “-0-AA” in the suffix location (H). These two suffixes should be omitted from the Service Kit number.

Additional examples as follows:

Valve Model

2BOCT18003C-RSK

2BFCF19503

1 1/2BOCT14001

3BOCF14001E

4BOCF18501-E4-AA

2BFCB19501-00-AA

Corresponding Service Kit

2BOKIT-18003C-RSK

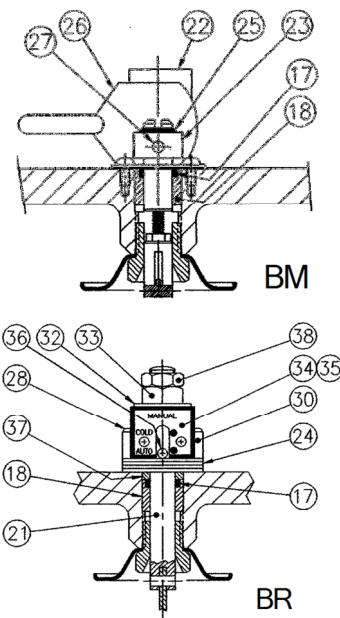
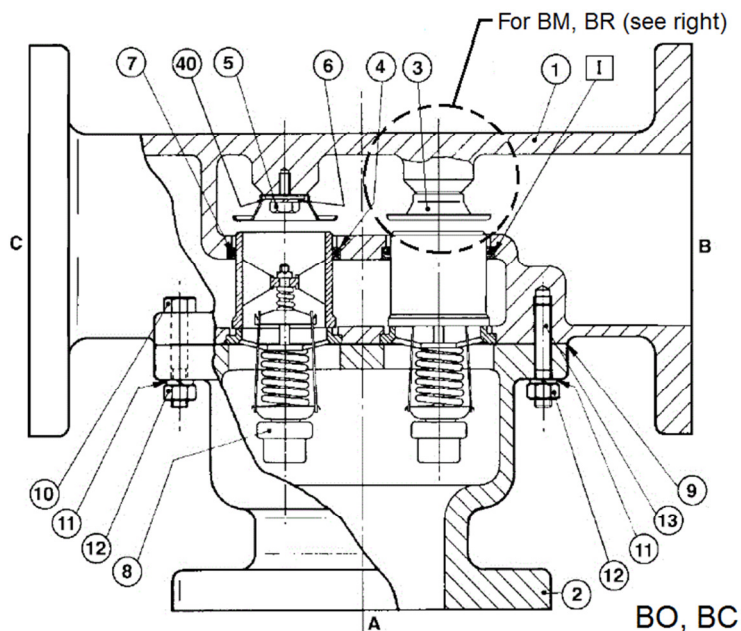
2BFKIT-19503

1 1/2BOKIT-14001

3BOKIT-14001E

4BOKIT-18501-E4

2BFKIT-19501



Model B Service Kit Installation: The following instructions are for servicing a valve which has already been removed from service, cleaned and prepped. Consult the Primary Equipment OEM's Operation and Maintenance Manual for instructions on lock-out of equipment, isolation and removal of the thermostatic control valve.

- 1) Remove Nuts & Bolts ⑫ and separate the Lower Housing ② from the Upper Housing ①.
- 2) Remove Element Assembly ⑧ and Element O-Ring Seal ⑦.
- 3) Remove Housing O-Ring ⑨ (Gasket* on some sizes) and clean any foreign material from sealing surfaces.
- 4) Lubricate new Element O-Ring Seal ④ with high-grade petroleum grease and insert in the groove in the Upper Housing ①.
- 5) Insert Element Assembly ⑧ through Element Seal ⑦ with a twisting motion.
- 6) Install housing seal O-Ring ⑨, or Housing Gasket, around the Element Assembly Flange.
- 7) Bolt on Lower Housing ② to torque requirements specified in table.

Valve Size Code	Housing Fastener Torque Requirements (based on Seal Type)			
	O ring		Gasket	
	Nm	lb•ft	Nm	lb•ft
1 ½	54	40	N/A	N/A
2	54	40	N/A	N/A
2 ½	80	60	N/A	N/A
3	80	60	N/A	N/A
33	80	60	N/A	N/A
4	54	40	68	50
5	80	60	122	90
6	80	60	122	90
8	80	60	122	90

***NOTE:** Some Service Kits are supplied with BOTH Housing **O-Rings** and Housing **Gaskets**. Replace your original housing seal using only the same style seal, and discard the extra component. Do NOT attempt to install both the O-Ring AND the gasket, or the seal will fail. If your valve was originally supplied with a gasket, do NOT attempt to use an O-Ring, as the seal will leak without a groove to accept the O-Ring.

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