



# 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.

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)

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.

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

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

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.

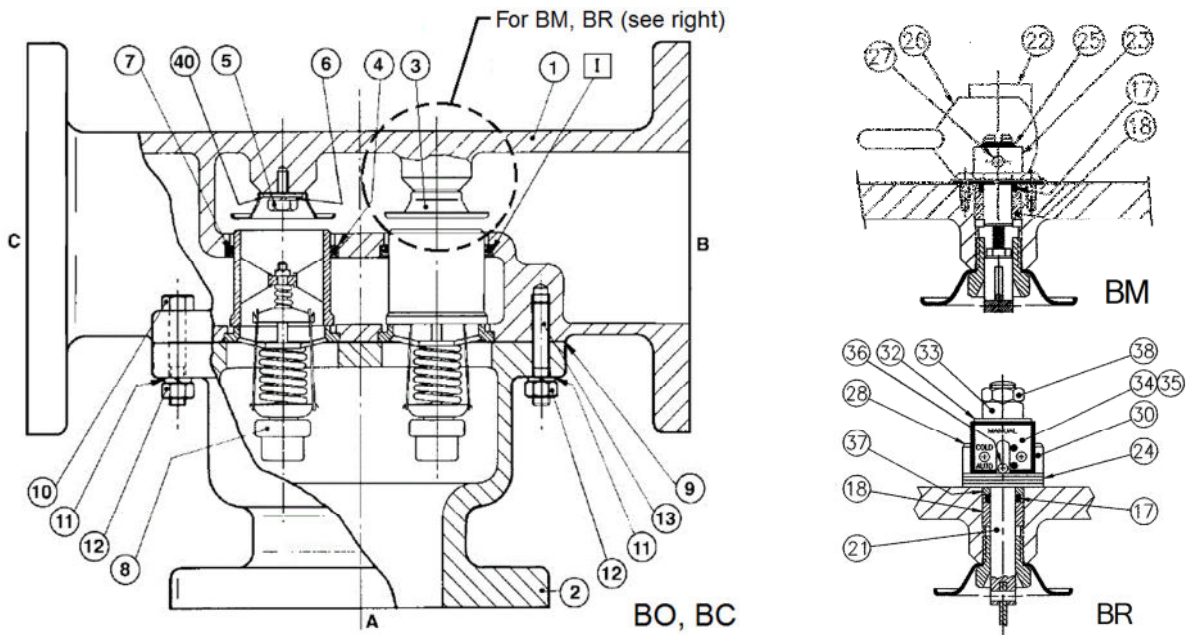
Thermostatic Service Kits may also be used for adapting valves to new service temperatures.

Additional examples as follows:

### Service Kit Identification:

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

Valve Model	Corresponding Service Kit
2BOCT18003C-RSK	2BOKIT-18003C-RSK
2BFCF19503	2BFKIT-19503
1 1/2BOCT14001	1 1/2BOKIT-14001
3BOCF14001E	3BOKIT-14001E
4BOCF18501-E4-AA	4BOKIT-18501-E4
2BFCB19501-00-AA	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 1/2	54	40	N/A	N/A
2	54	40	N/A	N/A
2 1/2	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.

#### Americas

AMOT Americas  
 8824 Fallbrook Dr  
 Houston, TX 77064 USA  
 Tel +1 (281) 940 1800  
 Fax +1 (713) 559 9419  
 Email: sales@amotusa.com

#### Asia Pacific

AMOT Asia Pacific  
 RM 4102 - 4104 United Plaza  
 1468 Nanjing Road West  
 Shanghai 200040 China  
 Tel: +86 (0) 21 6279 7700  
 shanghai@amot.com

#### Europe, Middle East & Africa

AMOT UK  
 Western Way  
 Bury St Edmunds  
 Suffolk, IP33 3SZ, United Kingdom  
 Tel: +44 (0) 1284 762222  
 info@amot.com