



Omron controls
CORPORATION

Richmond,
Calif. U.S.A.

THERM
STATIC
VALVE

MODEL

2-1/2B0C-105-01

TEMP.

SER.

C781

MAX. PRESS. MAIL

PAT. NO. 2136937

AMOT CONTROLS LIMITED
 BURY ST. EDMUNDS
 ENGLAND

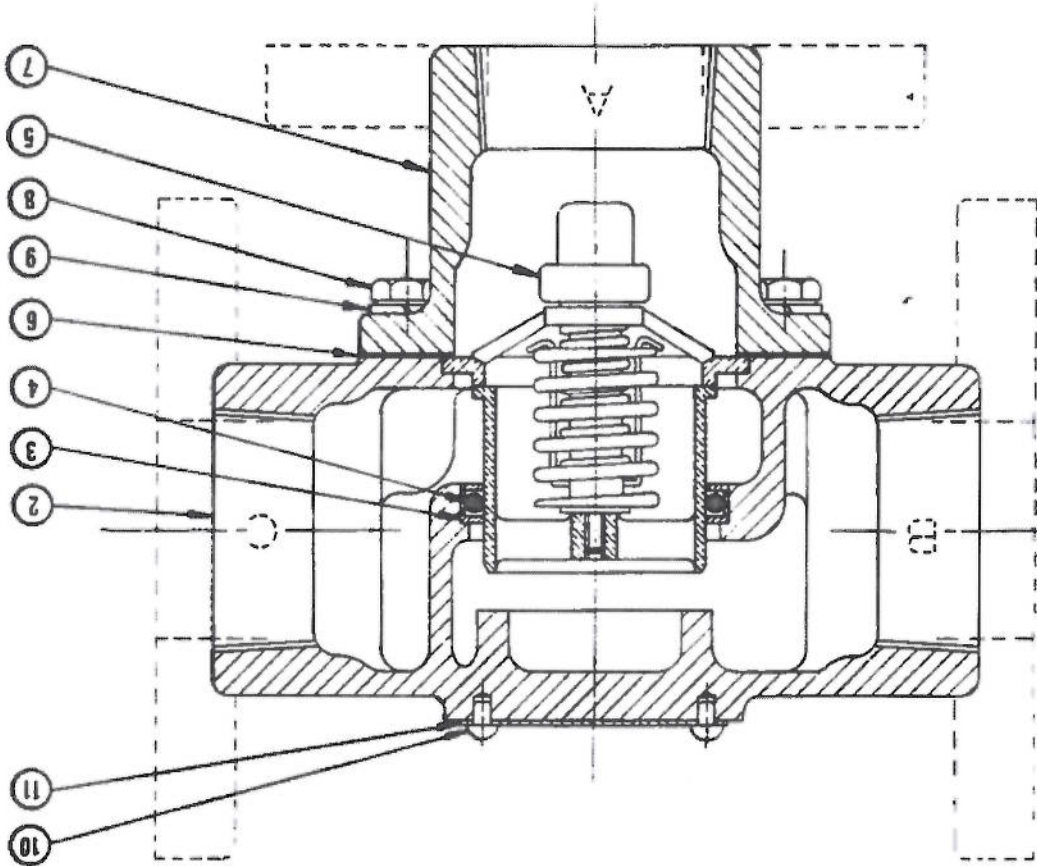
MODEL 1½"EO, 1½"EF AND 1½"EF
 THERMOSTATIC VALVES

FORM 595E
 REV. 1
 DATE 2-8-67

BODY PRESSURE RATING-----125 PSI
 (Water and Oil)
 MAX. RECOMMENDED DIFFERENTIAL---20 PSI
 BETWEEN VALVE PORTS
 MAX. CONTINUOUS TEMPERATURE
 UP TO 6 INCH. 150°F UNIT---200°F
 160°F AND HIGHER UNITS-----220°F
 FLANGES ON F TYPE UNITS-----125 LB.
 (USE WITH FULL AREA GASKETS)
 EACH VALVE USES (1) TYPE 5635X-(TEMP.)
 STANDARD ELEMENT

AVAILABLE NOMINAL
 TEMPERATURE SETTINGS
 °F
 °C
 110 (43)
 120 (49)
 130 (55)
 140 (60)
 150 (66)
 160 (71)
 170 (77)
 175 (79)
 180 (82)
 190 (88)

DESCRIPTION	REF.	QTY.	NO.	REQ.
UPPER HOUSING	2	1	2	
SLEEVE	3	1	3	
1/8" RING	4	1	4	
ELEMENT ASSEMBLY	5	1	5	
GASKET	6	1	6	
LOWER HOUSING	7	1	7	
CAPSCREW	8	4	8	
LOCKWASHER	9	4	9	
DRIVE SCREW	10	4	10	
NAME PLATE	11	1	11	



WHEN ORDERING PARTS OR COMMUNICATING WITH AMOT REGARDING
 OPERATION OF A CONTROL, ALWAYS GIVE THE UNIT SERIAL NO., REF. NO.
 DESCRIPTION, QUANTITY DESIRED, ALSO MENTION NO. AND DATE OF THIS FORM.



GENERAL INSTALLATION INSTRUCTIONS FOR AMOT MODEL E THERMOSTATIC VALVES

Except for truck thermostats which are held in position entirely by rubber hose, Amot thermostats should be held in position by connecting them rigidly to the piping. On threaded models, rubber hose over nipples can be used on some of the connections if desired. The thermostat should be installed at the most convenient location for piping. Amot thermostats will operate in any position. Connections are made according to the piping diagrams. Letters A, B, and C are cast on the housing. The piping diagrams are schematic, so connections A, B, and C may be in slightly different positions on the thermostat itself.

The temperature of Amot Thermostat Elements is set at the factory and cannot be adjusted. If element replacement is ever necessary, it can be done by unbolting the housing and lifting out the element.

All series E Amot Thermostatic Valves can be used either as diverting valves, as shown in Figs. 1 to 3 or as mixing valves as shown in Fig. 4. Fig. 1 shows a jacket water piping diagram on a stationary or marine engine with heat exchanger. Fig. 2 shows a jacket water piping diagram suitable for trucks, stationary, or marine engines using raw water cooling. Fig. 3 shows a diverting oil piping diagram with the Amot Thermostat installed in the oil sump outlet line so as to maintain a constant desired oil sump temperature. Fig. 4 shows a lubricating oil piping diagram with the Amot Thermostat installed as a mixing valve on the oil inlet line so as to maintain a constant desired oil-to-bearings temperature. In Fig. 1 it there is difficulty due to trapped air, a small line from the engine outlet to the surge tank will help the trouble.

To test an Amot element, place it in hot water at 150° F. above its nominal rating and stir the water vigorously with the element for 5 minutes. Then immediately place the element in the housing. If the element is fully stroked, the seating can be felt as it is pushed down.

