AMOT CONTROLS

Quality and reliability for over 50 years



Model 2470

APPLICATIONS

The 2470 is a two way temperature regulating valve with remote sensing to modulate or shut off flow resulting from temperature changes. Can be used to sense the regulated medium or another fluid circuit. Ideal for:

- Engine & Compressor Cooling Systems
- Cogeneration Heat Recovery Systems

- Lube Oil Systems
- Two Way Regulating of Cooling Circuits

FEATURES

- Tamper-Proof Temperature Settings
- Remote Sensing Capabilities

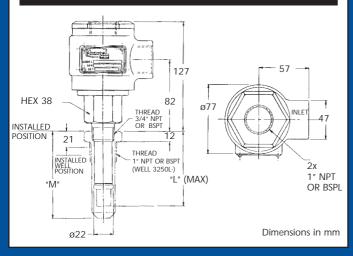
- Simple Operation
- Virtually no maintenance

SPECIFICATIONS

Housing: Seats and Sliding Valve: Temperature element & extension: Adaptor Assembly: Dynamic Seal: Maximum Pressure on Temperature Element: Maximum Shutoff Pressure: Maximum Pressure on Well (if used): Net Weight: Cast Iron Bronze Brass 316 Stainless Steel Ethylene Propylene Rubber 54 Bar (800 Psi) 8.62 Bar (125 Psi) *340 Bar (5000 Psi) 2 Kg (4.6 Ibs)

* Pressure shown is maximum allowable. To obtain working pressure, factors of safety should be applied as required by appropriate codes or regulations.

DIMENSIONS



1.20 1.00 (Jag 0.80 dror 0.60 ² 0.40 0.20 0.00 6 0 10 11 12 Flow (m³/h)

STAINLESS STEEL WELL

2470 FLOW RATE

Models 3250L and 4038O Stainless Steel Wells are available for the 2470 Thermostatic Valve. If valves and wells are ordered at the same time, they will be assembled at the factory using AMOT 40081 Heat Transfer Compound. When ordered separately, AMOT 40081 Heat Transfer Compound should be ordered and inserted in the well before installing the 2470 Valve. Sufficient compound should be used to fully cover the valve element extension. Excess pressure due to compound expansion will be vented via the small relief hole in the 3250L Well. If compound is not used, an excessive temperature lag between the sensed fluid and valve operating point may be experienced

Well Installed Depth Dimensions (mm)			
Temp. Element Extension Code No.	Element Installed Depth – L	Well Installed Depth – M	Well Part No.
0	50	Not Available	Not Available
3	87	100	3250L014 (NPT) 40380L014 (BSPT)
4	100	113	3250L015 (NPT) 40380L015 (BSPT)

ADDITIONAL INFORMATION

OPERATION

The 2470 utilises a highly reliable expanding-wax element encased in a Bronze retaining cup. This produces exceptional valve travel per unit of temperature change.

Where additional element insertion length is required extensions can be added as shown in model coding table below. Stainless Steel wells are also available for use in corrosive environments or where fluid containment is necessary.

Model 2470B(-)1

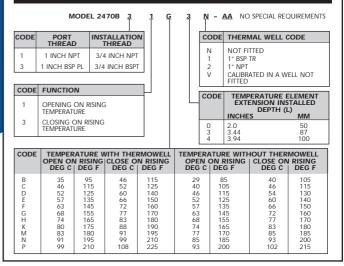
Opens with a rise in temperature above the setpoint and will close on falling temperature. With a valve seat of Nitrile rubber, this unit, when fully op leaking opened, will withstand 8.6 bar (125 psi) water pressure with no

Model 2470B(-)3

Closes with a rise in temperature above the setpoint and will open on falling temperature. With a valve seat of Nitrile rubber, this unit, when fully closed, will withstand 8.6 bar (125 psi) water pressure without leaking.

To obtain maximum life from the temperature elements the valve must not be operated continuously at more than 30°C (50°F) above the opening point on the 2470B(-)1 or more than 18°C (30°F) above the closing point on the 2470B(-)3. If it is necessary to operate at a continuous over-temperature, consult the factory for alternative elements.

2470 MODEL CODING



HOW TO ORDER

To order an Amot 2470 valve please construct the appropriate model number from the coding table above, or specify the following:

- 1) Amot Model 2470B
- 2) NPT or BSPT connections
- зí To open or close on rising temperature
- 4) Temperature setting required with or without a thermowell
 5) Element extension length required
 6) Type of thermal well, if required.

For any other special requirements please contact your nearest Amot representative or the factory direct.

Additional information on the Amot range of externally and internally sensed Thermostatic Valves is available in a range of Sales and Technical Data sheets. Please contact Amot Controls or your nearest representative for further information.

This sheet is distributed for information purposes only. It is not to be construed as becoming part of any contractual or warranty obligations of Amot Controls Limited, unless expressly so stated in a sales contract. Amot Controls Limited reserves the right to make product design changes at any time without notice.

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