

Q340A Thermocouple

INSTALLATION INSTRUCTIONS

APPLICATION

The Q340A Thermocouple is a single-junction thermocouple lead which provides a 30 mV electrical signal when the pilot is operating. Loss of the pilot removes the electrical current and shuts off the gas supply to the burner.

SPECIFICATIONS

Temperature Ratings:

Hot Junction area: 1400°F (760°C).

Cold Junction Area: 780°F (416°C).

Lead Lengths:

18 in. (0.5 m) to 48 in. (1.2 m) are available.

INSTALLATION

When Installing This Product...

1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Check the ratings given in the instructions and on the product to make sure the product is suitable for your application.
3. Installer must be a trained, experienced technician.
4. After installation is complete, check out product operation as provided in these instructions.

⚠ WARNING

Fire or Explosion Hazard.

Can cause property damage, serious injury or death.

Make sure the gas supply to the burner is turned off before removing or installing the thermocouple.

Replacement Installation

1. Disconnect and remove the old thermocouple.
2. Determine the type of thermocouple mount:
 - a. Screw-in type.
 - b. Clamp type.
 - c. Push-in type.
3. Follow the applicable installation instructions in Fig. 1.

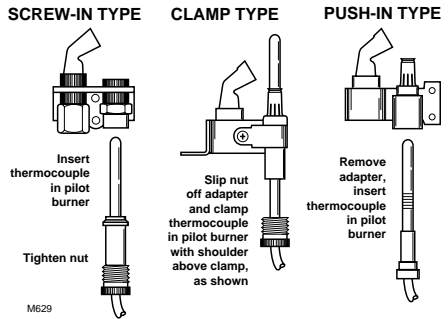


Fig. 1. Q340 Thermocouple installation.

New Installation

1. Determine the type of thermocouple mount (see step 2 in Replacement Installation).
2. Follow the applicable instructions in Fig. 1.

Completing the Connection

1. Connect the other end of the thermocouple to the safety control. Do not use thread compound; the connection must be clean and dry.



CAUTION

Equipment Damage Hazard.

Too much torque will damage the connection.

Tighten connector only 1/4 in. turn beyond finger-tight for good electrical continuity. Further tightening can result in damage.



2. Make sure to tighten all connection screws securely.
3. Connect the limit control wires to the thermocouple junction block terminals. If no limit control is used, jumper the terminals on the junction block with heavy gauge wire.
4. Turn on the gas supply and light the pilot light.
5. Wait one minute and turn on the main burner.

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