#### Thermocouples and Thermopiles

#### **Q313 Thermopile Generators**



The Q313 Thermopile generates 750 mV, which is sufficient to operate an automatic millivolt gas control system, independent of any outside power source.

- Push-in clip, split nut, and adapter assembly for easy pilot burner installation.
- Spade or quick-connect terminals available for millivolt gas control connections.

Application: Thermopile

Voltage: 750 mV; Open circuit output - 600 mV to 750 mV

Temperature Ratings: Hot Junction – 1400°F; Cold Junction – 780°F

(Hot Junction – 760°C; Cold Junction – 416°C)

Used With: Q314, Q324, Q327, Q377, Q379, Q382 Pilot Burners

Approvals: CSA International: 112395

	Material Number	Length	Connection Type	Resistance	Includes			
Г	Q313B1005/U	35 in. (889 mm)	Spade Terminals	2.89 ohms	Terminal Block			
U	Q313U3000/U	35 in. (889 mm)	Spade Terminals	2.89 ohms	1/2 in. attaching nut, split nut, spade to quick connect adapter, push-in clip, PG9 adapter			
	Q313A1055/U 47 in. (1194 mm) Spade Terminals 2.90 ohms 1/2 in. attaching nut							
U	U Universal Service Parts							

#### Q340 Universal 30 mV Thermocouple



The Q340A premium thermocouples generate 30mV. They are used to sense the pilot flame on gas-fired heating systems. The Q340's have the maximum amount of Copel, which provides long-lasting service.

- Push-in clip, split nut, and adapter assembly for easy pilot burner installation.
- Male nut connector for Pilotstat® safety control power units.
- · Available in a variety of lead lengths.

Application: Thermocouple

Voltage: 30 mV; Open circuit output - 26 mV to 32 mV

Temperature Ratings: Hot Junction – 1400°F; Cold Junction – 780°F

(Hot Junction – 760°C; Cold Junction – 416°C)

Approvals: CSA International: 112395

	Material Number	Length	Connection Type	Resistance	Includes	
U	Q340A1066/U	18 in. (457 mm)	11/32 32 Male Connector Nut	0.02 ohms	Adapter and Push In Clip	
U	Q340A1074/U	24 in. (610 mm)	11/32 32 Male Connector Nut	0.02 ohms	Adapter and Push In Clip	
U	Q340A1082/U	30 in. (762 mm)	11/32 32 Male Connector Nut	0.02 ohms	Adapter and Push In Clip	
U	Q340A1090/U	36 in. (914 mm)	11/32 32 Male Connector Nut	0.02 ohms	Adapter and Push In Clip	
U	Q340A1108/U	48 in. (1219 mm)	11/32 32 Male Connector Nut	0.03 ohms	Adapter and Push In Clip	
U Universal Service Parts						

### Q390 Thermocouple



The Q390A thermocouples generate 30mV that is used to sense the pilot flame on gas-fired heating systems.

- Push-in clip, split nut, and adapter assembly for easy pilot burner installation.
- Male nut connector for Pilotstat® safety control power units.
- · Available in a variety of lead lengths.

**Application:** Thermocouple

Voltage: 30 mV; Open circuit output - 26 mV to 32 mV

Temperature Ratings: Hot Junction – 1400°F; Cold Junction – 780°F

(Hot Junction – 760°C; Cold Junction – 416°C)

Approvals: CSA International: 112395

Material Number	Length	Connection Type	Resistance	Includes
Q390A1095/U	18 in. (457 mm)	11/32 32 Male Connector Nut	0.02 ohms	Adapter and Push In Clip
Q390A1046/U	24 in. (610 mm)	11/32 32 Male Connector Nut	0.02 ohms	Adapter and Push In Clip
Q390A1053/U	30 in. (762 mm)	11/32 32 Male Connector Nut	0.02 ohms	Adapter and Push In Clip
Q390A1061/U	36 in. (914 mm)	11/32 32 Male Connector Nut	0.02 ohms	Adapter and Push In Clip
Q390A1103/U	48 in. (1219 mm)	11/32 32 Male Connector Nut	0.03 ohms	Adapter and Push In Clip

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## Thermopiles and Thermocouples Selection Guide

## **Q370A Thermocouple**



## The Q370 Thermocouple is a quick dropout thermocouple that generates 30mV.

 The Q370 has various adapters for different mounting possibilities in various pilot burners.

**Application:** Thermocouple

Voltage: 30 mV; Output after 60 S: 22mV minimum

Drop Out Time: 30 sec

Temperature Ratings: Hot Junction – 650°C ± 50°C; Cold Junction –

415°C

Material Number	Description	Length	Resistance
Q370A 1014	This 30 mV Thermocouple includes 900 mm leads with 8 adapters.	35 1/2 in. (900 mm)	0.025 to 0.031 ohms

## Thermocouple and Thermopile Accessories

Material Number	Description	
394530/U	Thermocouple Tester	

# Thermopiles and Thermocouples Selection Guide

Thermocouples							
Lead Length (in.)	(in.) Universal	Tradeline	Cross Reference	Cross Reference			
			White-Rodgers	Robertshaw	Husky	Johnson Controls	
18	Q340A1066/U	Q390A1095/U	H06E-518, H06E-18		K16BT-18	K19AT-18	
24	Q340A1074/U	Q390A1046/U	H06E-524, H06E-24	1970-24, 1980-24	K16BT-24	K19AT-24	
30	Q340A1082/U	Q390A1053/U	H06E-530, H06E-30	1970-30	K16BT-30	K19AT-30	
36	Q340A1090/U	Q390A1061/U	H06E-536, H06E-36	1970-36, 1980-36	K16BT-36	K19AT-36	
48	Q340A1108/U	Q390A1103/U	H06E-548, H06E-48	_	K16BT-48	K19AT-48	

Thermopiles							
Lead Length (in.)	Universal	Connection	Includes	Replaces			
35	Q313U3000		3	Q313A1022, Q313A1139, Q313A1170, Q313A1188			
47	Q313A1055		1/2" attaching nut				

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