

PILOT BURNERS

Pilot Burner Q179A

Atmopsheric gas pilot assembly for operation with natural and mixed, manufactured and LP gas.

Overview



The Q179A is a gas pilot assembly which includes an electrode for electric spark ignition of the pilot, and a flame electrode for electronic flame detection when used with an R190 or similar device. Flame electrodes are provided for use with the various burner tips, and orifices are provided for operation with natural and mixed, manufactured and LP gas. The assembly is provided with a third electrode which acts as a ground for the flame and as a shield between the ignition port and the flame electrode. The current through the flame rod when used with an R190 relay is approximately 2 microamperes.

Specifications

PRESSURE SPECIFICATIONS

Inlet Gas Pressure Range

- 2 to 8 in. WC

ELECTRICAL SPECIFICATIONS

Flame Signal Voltage

- Min. 1.25 VDC (Honeywell 7800 Series)

CONNECTIONS & INTERFACES

Electrical Connector

- Rajah connectors (male and female)

Inlet Connection

- 1/4 in compression coupling (factory installed)

IGNITION, FLAME & SUPERVISION SPECIFICATIONS

Electrodes Included

- Ignition electrode + flame electrode (Q179A1183: ignition only)

Flame Signal Range

- Min. 2.0 µA flame current

Flame Detection

- Flame rectification via flame electrode (rod)



Ignition Type

- Spark ignition electrode (requires 6,000 V grounded secondary transformer)

Electrode Gap

- 1/16 to 3/32 in

TEMPERATURE CONTROL/MEASUREMENT

Temperature Rating

- Flame/ignition electrodes 1750 deg F; ground shield 1300 deg F; pilot tip 1500 deg F

OVERVIEW

Product Category

- Electrically ignited gas pilot burner

Product Type

- Q179A Gas Pilot Burner Assembly

Burner Type

- Primary aerated burner with stainless steel fins

COMBUSTION, FUEL & MIXING SUB-SYSTEMS

Pilot Tip Styles

- I-port, 45 deg I-port, 45 deg RH Ell, 45 deg LH Ell, T-port, Y-port, Large I-port

INSTALLATION & MOUNTING SPECIFICATIONS

Mounting Options

- Side-mounting holes + end-mounting ears

COMBUSTION, MIXING & FUEL DYNAMICS

Gas Consumption

- Approximately 2 cu ft/hr

DIMENSIONS & SIZE SPECIFICATIONS

Orifice Sizes

- Natural Gas 0.025 in; LP 0.013 in; T/Y-port 0.028 in

APPLICATIONS & COMPATIBILITY

Applications

- Gas pilot assembly using flame rectification to prove flame, Gas burners and gas-pilot-ignited oil burners

FUEL, GAS & MEDIA SPECIFICATIONS

Fuel Type

- Natural gas (LP requires separate orifice)

STANDARDS & CERTIFICATIONS

Approvals

- UL Listed, CSA certified, FM Approved, AGA Certified

Filters

▼ CATEGORY

- ☒ Base Part

☒ Spare Part

▼ TYPE

- ☒ Gas Pilot Assembly
- ☒ Pilot Tip
- ☒ Burner Tip
- ☒ Connector
- ☒ Pilot Burner Assembly

 Search

Part Number 37356/520/U
Description RAJAH CONNECTOR FOR IGN ELECTRODE-Q179A
Category Spare Part
Type Connector
[Order Online](#)

Part Number Q179A1001/U
Description GAS PILOT
Category Base Part
Type Gas Pilot Assembly
[Order Online](#)

Part Number Q179A1035/U
Description GAS PILOT
Category Base Part
Type Gas Pilot Assembly
[Order Online](#)

Part Number Q179A1050/U
Description T PILOT TIP
Category Spare Part
Type Burner Tip
[Order Online](#)

Part Number Q179A1076/U
Description GAS PILOT
Category Base Part
Type Gas Pilot Assembly
[Order Online](#)

Part Number Q179A1092/U
Description 45 DEG T PILOT TIP
Category Base Part
Type Pilot Tip
[Order Online](#)

Part Number Q179A1118/U
Description GAS PILOT
Category Base Part
Type Gas Pilot Assembly
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Part Number Q179A1126/U
Description 1 PILOT TIP, FOR HIGH TEMPERATURE APPL
Category Base Part
Type Pilot Tip
[Order Online](#)

Part Number	Q179A1183/U
Description	PILOT BURNER ASSY
Category	Base Part
Type	Pilot Burner Assembly
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Part Number	Q179B1182/U
Description	SAME AS Q179B1042 EXCEPT ORIFICE HAS .0
Category	Base Part
Type	Gas Pilot Assembly
	Order Online

Product Number



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37356/520/U
RAJAH CONNECTOR FOR IGN ELECTRODE-Q179A

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Q179A1001/U
GAS PILOT

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Q179A1092/U
45 DEG T PILOT TIP

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45 DEG T PILOT TIP

Q179A1118/U



GAS PILOT

Q179A1118/U

GAS PILOT

Q179A1126/U

1 PILOT TIP, FOR HIGH TEMPERATURE APPL

Q179A1126/U

1 PILOT TIP, FOR HIGH TEMPERATURE APPL

Q179A1183/U

PILOT BURNER ASSY

Q179A1183/U

PILOT BURNER ASSY

Q179B1182/U

SAME AS Q179B1042 EXCEPT ORIFICE HAS .0

Q179B1182/U

SAME AS Q179B1042 EXCEPT ORIFICE HAS .0