



G92 Model Rev. B Series BASOTROL® Automatic Pilot Gas Valve

The G92 Model Rev. B Series BASOTROL gas valve combines the automatic pilot valve and automatic main valve functions in one valve. Typical applications include central heating units, unit heaters, commercial clothes dryers and similar applications. Potted coil construction provides dependable operation and longer life.



Figure 1: G92 Model Rev. B Automatic Gas Valve

Features and Benefits	
☐ Potted Coil Construction	Provides dependable operation and longer life
☐ Compact Design	Permits installation in dimensionally restricted applications
☐ Selectable Pilot Tap Positions	Provides application flexibility

Application

The G92 valves can be used with natural gas, Liquefied Petroleum (LP) gas or LP gas-air mixtures, at pressures up to 0.5 psi (35 mbar). The G92 is suitable for operation over a temperature range of -20 to 175°F (-29 to 79°C). Models with a pilot adjust valve are suitable for operation over a temperature range of 32 to 175°F (0 to 79°C).

Note: This unit should be used only in applications that are within the limitations and provisions of the applicable American National and/or Underwriters Laboratories® (UL) standards.

Description

The G92 valves are 100% shutoff valves. They are supplied with a standard potted coil.

Valve Constructions

The G92 Series is available with 1/2 x 1/2 in. or 1/2 x 3/4 in. body connections with a 25, 120 or 240 VAC 2-wire or 3-wire connections. Some models are also available with a 12 VDC or 240 VAC coil. Refer to the *Ordering Information* section for more information.

Additionally, the G92 Series is available with other optional configurations.

Pressure Connection

The G92 valve is available with 1/8-27 NPT pressure taps when required. (Y99AX Series Test Nipple) Contact BASO Gas Products for details and ordering.

Solenoid Connections

Solenoids are supplied with 1/4 in. (6.35 mm) terminals. You can use DIN connectors with strain relief (see Figure 2) or 1/2 NPT conduit connection (see Figure 3). Contact BASO for more information.

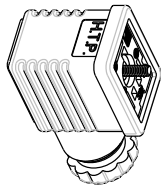


Figure 2: SVC200 Wire Connect Strain Relief DIN Type Connector

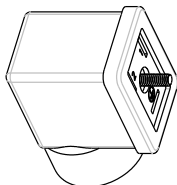


Figure 3: SVC210 Conduit 1/2 NPT DIN Type Connector

Pilot Gas

External or internal pilot gas flow is available. Pilot connections from the thermo-electric valve options are 1/8-27 NPT or 1/4-inch cc (contact BASO Gas Products).

Pilot Adjust Valve

Figure 6 illustrates a typical installation showing a pilot adjust valve. (Y99AY Series Straight or 90° Elbow)

A pilot adjust valve (for pilot flame) with pilot flow adjuster is available. Various outlet positions are available.

Contact BASO Gas Products for details and ordering.

Pilot Tap Options

Right- or left-hand pilot tap options take advantage of space or access limitations.

Mounting

G92 valves may be mounted on a horizontal manifold with the magnetic operator pointed up (vertical) or in a position not exceeding 90° from vertical. They may also be mounted on a vertical manifold in any position around its axis (see Figure 4).

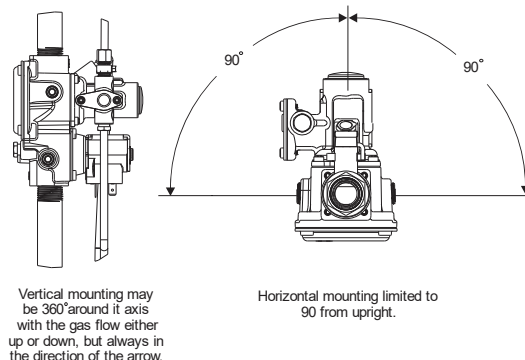


Figure 4: Mounting Positions

Table 1: Thermocouple Output

Thermocouple		mV Range	
Lead Type	Turn Down	Normal	Not Less Than
K15	4 mV	20-28	15
K16	4 mV	25-35	17
K17	4 mV	30-30	25
K19	4 mV	25-35	17

Table 2: Dropout Range

mA Range of Power Unit Assembly	
Low	High
100	300

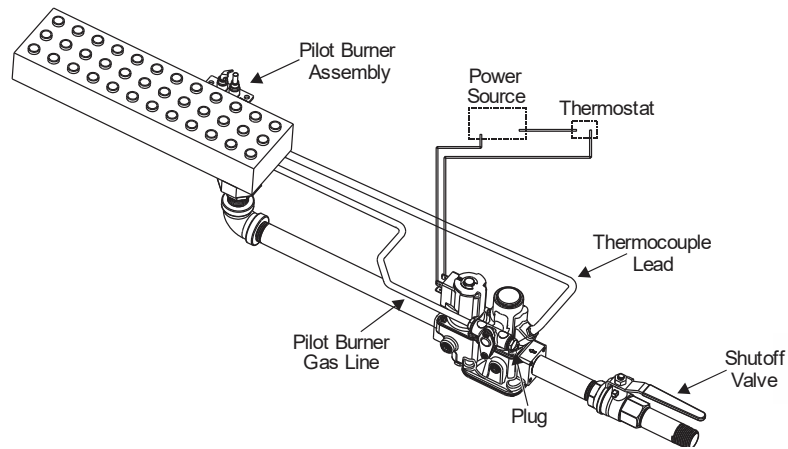


Figure 5: Typical Installation for Internal Pilot Gas Flow

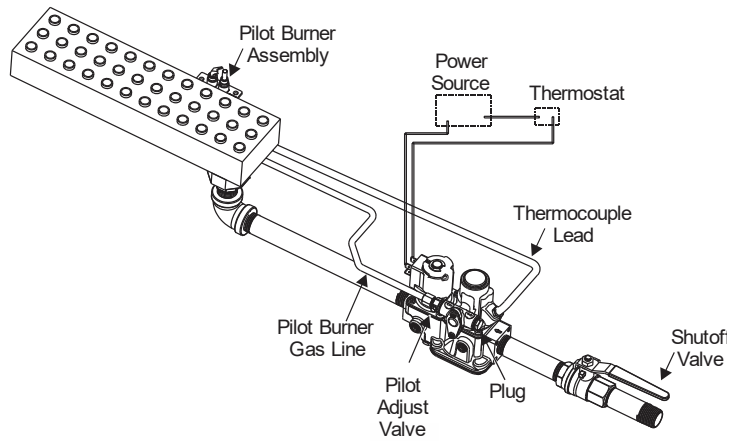


Figure 6: Typical Installation for Internal Pilot Gas Flow with Pilot Adjust Valve

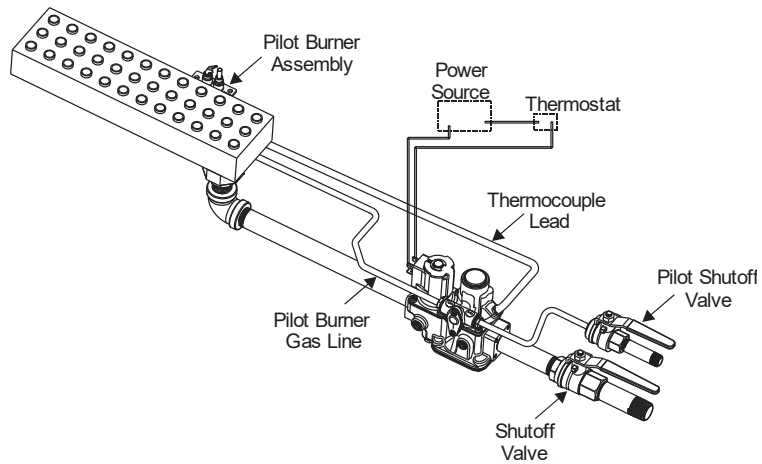


Figure 7: Typical Installation for External Pilot Gas Flow

Dimensions

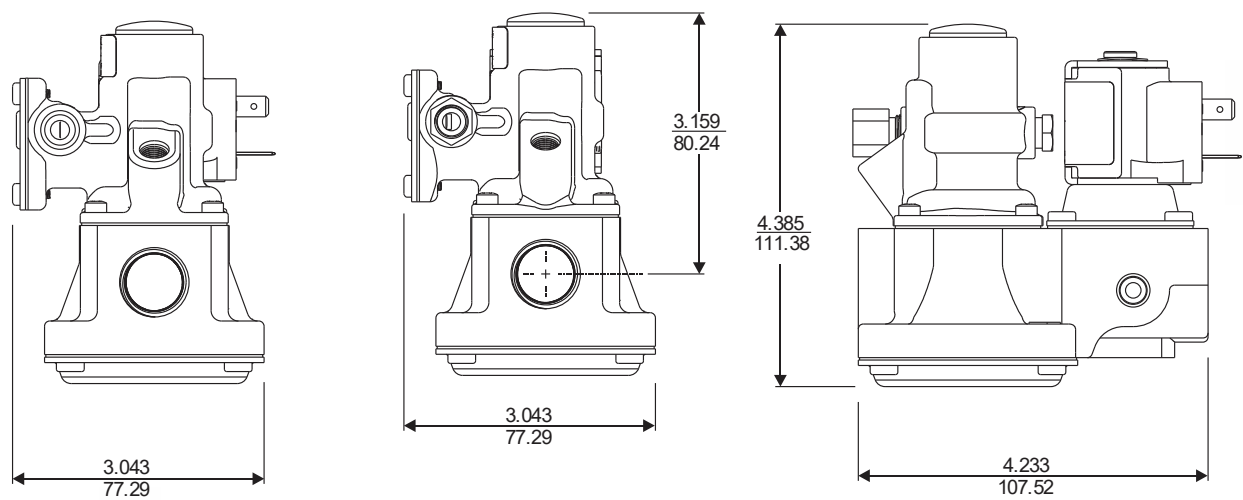
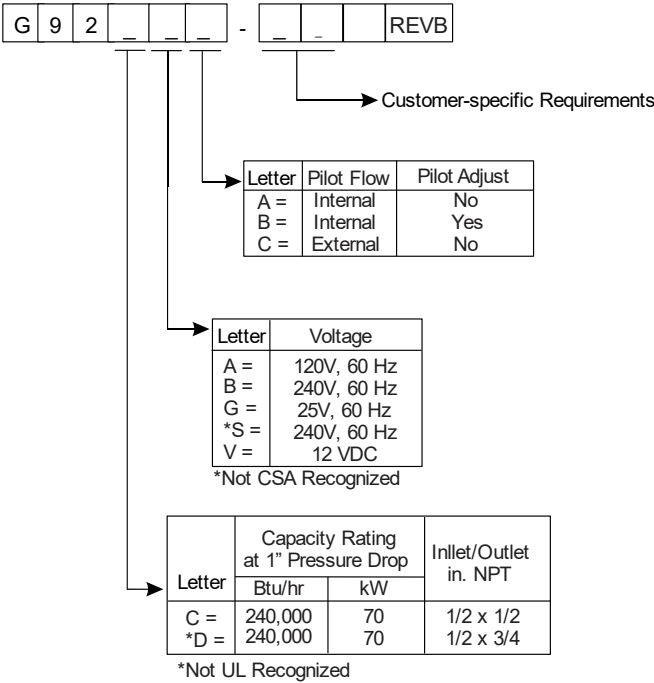


Figure 8: Dimensions

Ordering Information



The presence of a particular construction in this information does not guarantee its availability. Consult BASO Gas Products for available constructions.

Figure 9: Ordering Matrix

Technical Specifications

Product	G92 Model Rev. B Series BASOTROL Automatic Pilot Gas Valve
Maximum Operating Pressure	0.5 psi (35 mbar)
Valve Body	Aluminum
Permissible Ambient Temperature (Min./Max.)	G92__ A and G92__ C models without rotor valve CSA: -20 to 175°F (-29 to 79°C) UL: -20 to 125°F (-29 to 52°C) G92__ B models with rotor valve CSA: 32 to 175°F (0 to 79°C) UL: 32 to 125°F (0 to 52°C)
Electrical Rating	25 VAC, 60 Hz, 0.3 ampere draw 120 VAC, 60 Hz, 0.05 ampere draw 240 VAC, 60 Hz, 0.03 ampere draw 12 VDC, 0.5 ampere draw (CSA only)
Recommended Thermocouple Lead Lengths	K15: 12 to 48 in. (305 to 1,220 mm) K16: 12 to 72 in. (305 to 1,830 mm) K17: 12 to 72 in. (305 to 1,830 mm) K19: 18 to 72 in. (457 to 1,830 mm)
Inlet Body Connection	1/2 in. NPT
Outlet Body Connection	1/2 or 3/4 in. NPT
Types of Gas	Natural, Liquefied Petroleum (LP) or LP gas-air mixtures
Packaging	Bulk pack supplied to original equipment manufacturer (individual pack optional)
Bulk Pack Quantity	32
Bulk Pack Weight	48 lb (22 kg)
Agency Listing	CSA Certificate Number 229521-1656050 (excludes G92CS_) UL File Number MH2926 (excludes G92CV_ and G92D__)
Specification Standards	ANSI Z21.78, CSA 6.20 UL Standard 372 and 429

Performance specifications are nominal and conform to acceptable industry standards. All agency certification of BASO products is performed under dry and controlled indoor environmental conditions. Use of BASO products beyond these conditions is not recommended and may void the warranty. Product must be protected if exposed to water (dripping, spraying, rain, etc.) or other harsh environments. The original equipment manufacturer or end user is responsible for the correct application of BASO products. Consult BASO Gas Products LLC for questionable applications. BASO Gas Products LLC shall not be liable for damages or product malfunctions resulting from misapplication or misuse of its products.

Refer to the G92 Model Rev. B Series BASOTROL Automatic Pilot Gas Valve Installation Instructions (Part No. BASO-INS-G92MODELREVB) for necessary information on the installation, use, and servicing of this product.



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