

# Electrically-Operated Combination Gas Valves





BASO Gas Products LLC

## G96 Series BASOTROL® CE Approved Gas Valve



### Description

The G96 Series gas valve is a combination, dual operator, automatic gas valve with a pressure regulator for intermittent pilot ignition systems. Typical applications include heaters, process burners, commercial dryers, commercial cooking equipment, rooftop units, and similar applications. The G96 can be used with natural gas and LP gas, at pressures up to 0.5 psi and is field convertible with a conversion kit.

### Specifications

- Pilot connection is 1/8-27 NPT
- Maximum inlet pressure is 0.5 psi
- Permissible ambient (surface) temperature is 32 to 160°F (0 to 70°C)

### Agency Listing

- CSA (AGA/CGA) Certificate Number 229521-1656041
- EC Type Examination Certificate Number C87AP58

### To Order

To order genuine BASO products, call 1-877-227-6427 (1-877-BASOGAS). Specify the code number from the following selection chart. The G96 valves are factory set for either natural gas or LP gas. Order the correct model for your requirements.

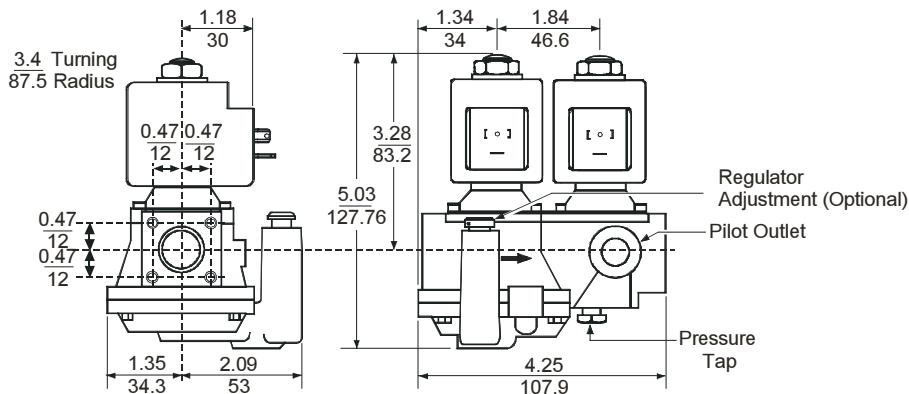
Other models may be made available depending upon customer requirements. Contact BASO Gas Products for availability of products not shown.

### Selection Chart

Code Number	Inlet and Outlet	VAC (50/60 Hz)	Pilot Tap (in.) NPT	Pressure Tap (in.) NPT	Regulator Adjustment Location
G96MG04HBL-8N	1/2 X 1/2 NPT	24	1/8-27 left and right	1/8-27 bottom	Top
G96TG04HBR-7A	1/2 X 1/2 BSPP	24	1/8-27 left and right	1/8-27 bottom	Top

### Conversion Kit Selection Chart

Conversion Kit	Regulator Adjustment Location	Part Number
Conversion Kit for Regulation to Non-Regulation	Top or Bottom	Y71AA-5
Conversion Kit for 6 to 12 in. W.C. (15 to 30 mbar) Regulation	Top	Y71GF-4
Conversion Kit for 3 to 6 in. W.C. (7.5 to 15 mbar) Regulation	Top	Y71QH-2



**G96 Dimensions (in. /mm)**

Only qualified personnel should install or service BASO Gas Products.

BASO Gas Products shall not be liable for damages resulting from misapplication or misuse of its products.



BASO Gas Products LLC

## G96 Series BASOTROL® Dual Operator Gas Valve



### Description

The G96 Series valve is a combination, dual operator, automatic gas valve with a pressure regulator. Typical applications include heaters, rooftop units, commercial dryers, commercial cooking equipment, and similar applications. The G96 can be used with natural gas or LP gas at pressures up to 0.5 psi and comes with an adjustable regulator which is field convertible with a conversion kit. The G96 is available with various voltages and cover options.

### Specifications

- Maximum inlet pressure is 0.5 psi
- Natural Gas Capacity Btu/hr at 1 in. pressure drop is 190,000
- Permissible ambient (surface) temperature is -20 to 175°F (-29 to 80°C) (-40 optional)

### Agency Listing

- CSA (AGA/CGA) Certificate Number 229521-1656041

### Electrical Connections

- #18 AWG stranded wire or 1/4 in. male quick-connect terminals

### To Order

To order genuine BASO products, call 1-877-227-6427 (1-877-BASOGAS). Specify the code number from the following selection chart. The G96 valves are factory set for either natural gas or LP gas. Order the correct model for your requirements.

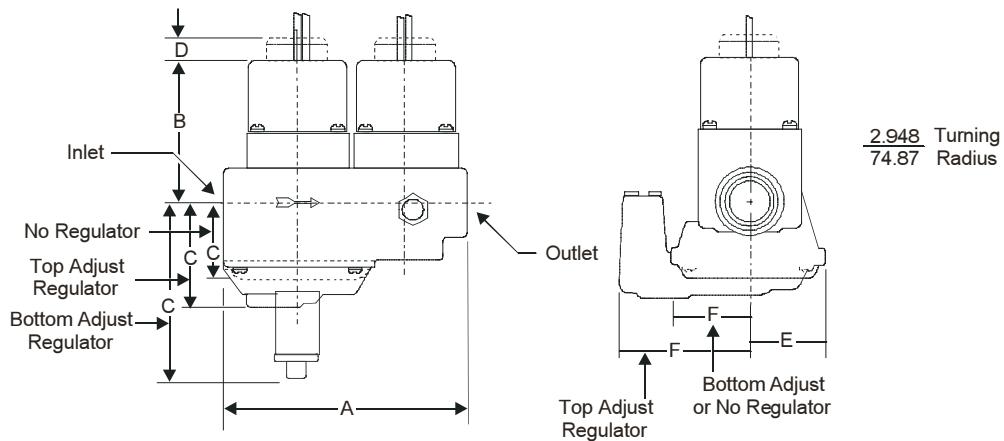
Other models may be made available depending upon customer requirements. Contact BASO Gas Products for availability of products not shown.

### Selection Chart

Code Number	Inlet and Outlet Female NPT	VAC (60 Hz)	Pilot Tap (in.) NPT	Pressure Tap (in.) NPT	Regulator Adjustment Location	Electrical Connection
G96AAQ-4	1/2 in. x 1/2 in.	120	1/8-27 left	1/8-27 bottom	None	1/4 in. male spade
G96HAA-2		120	None	1/8-27 left	Top	1/4 in. male spade
G96HAA-4		120	1/8-27 left and right	1/8-27 bottom	Top	30 in leads
G96HAA-8		120	1/8-27 left and right	1/8-27 bottom	Top	1/4 in. male spade
G96HGA-4		25	1/8-27 left and right	1/8-27 bottom	Top	1/4 in. male spade
G96HGA-7		25	1/8-27 left	1/8-27 bottom	Top	1/4 in. male spade
G96HGA-13		25	1/8-27 left	1/8-27 bottom	Top	1/4 in. male spade
G96HGA-17		25	1/8-27 right	1/8-27 left	Top	1/4 in. male spade
G96HGA-19		25	1/8-27 right	1/8-27 left	Top	1/4 in. male spade
G96HGC-9		25	1/8-27 left and right	1/8-27 bottom	Top	1/4 in. male spade
G96HGH-3		25	1/8-27 right	1/8-27 bottom	Bottom	40 in. leads
G96HGH-5		25	1/8-27 left	1/8-27 bottom	Bottom	18 in. leads
G96HKG-1		25	1/8-27 left	1/8-27 bottom	Bottom	18 in. leads
G96JGA-2	1/2 in. x 3/4 in.	25	1/8-27 left and right	1/8-27 bottom	Top	1/4 in. male spade

### Conversion Kit Selection Chart

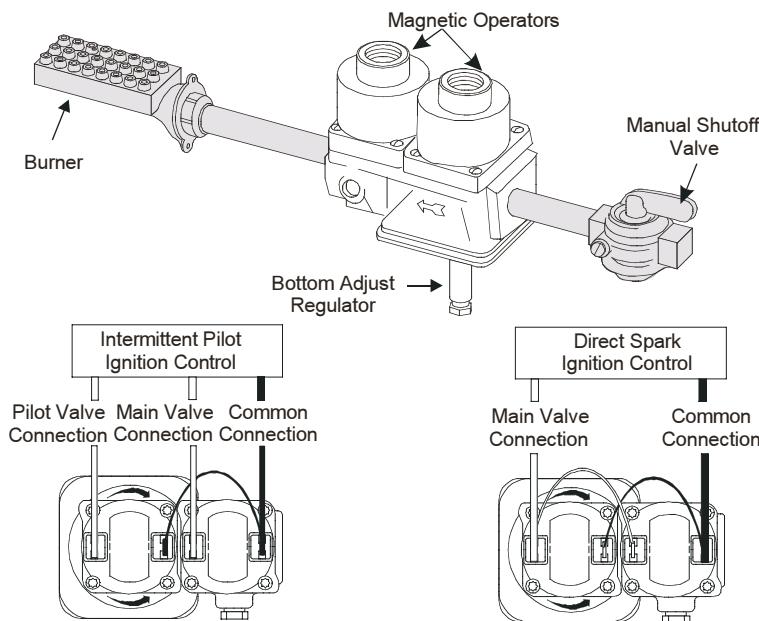
Conversion Kit	Regulator Adjustment Location	Part Number
Conversion Kit for Regulation to Non-Regulation	Top or Bottom	Y71AA-5
Conversion Kit for 6 to 12 in. W.C. (15 to 30 mbar) Regulation	Top	Y71GF-4
Conversion Kit for 3 to 6 in. W.C. (7.5 to 15 mbar) Regulation	Top	Y71QH-2
Conversion Kit for 8 to 12 in. W.C. (20 to 30 mbar) Regulation	Bottom	Y71GF-3
Conversion Kit for 3 to 6 in. W.C (7.5 to 15 mbar) Regulation	Bottom	Y71QH-3



### G96 Dimensions

#### Dimensions

Series Number	A		B		C		D		E		F	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
G96 without a Regulator	4.23	107	2.44	62	1.28	33	0.41	10	1.33	34	1.33	34
G96 with Top Adjust Regulator	4.23	107	2.44	62	1.66	42	0.41	10	1.33	34	2.10	53
G96 with Bottom Adjust Regulator	4.23	107	2.44	62	2.48	63	0.41	10	1.33	34	1.33	34



### Typical G96 Installation and Wiring



## G196 Series BASOTROL® Combination Gas Valve with Manual Shutoff Valve



### Description

The G196 Series valve is a combination, dual operator, automatic gas valve with a pressure regulator and manual "A" valve. Typical applications include unit heaters, rooftop units, agricultural heaters, commercial cooking equipment, and similar applications. The G196 can be used with natural gas or LP gas at pressures up to 0.5 psi and comes with an adjustable regulator which is field convertible with a conversion kit. The G196 is available with various voltages and cover options.

### Specifications

- Maximum inlet pressure is 0.5 psi
- Natural Gas Capacity Btu/hr at 1 in. pressure drop is 175,000 (G196NGH-1 is 155,000)
- Permissible ambient (surface) temperature is -20 to 175°F (-30 to 80°C) (-40 optional)

### Agency Listing

- CSA (AGA/CGA) Certificate Number 229521-1656041

### Electrical Connections

- #18 AWG stranded wire or 1/4 in. male quick-connect terminals

### To Order

To order genuine BASO products, call 1-877-227-6427 (1-877-BASOGAS). Specify the code number from the following selection chart. The G196 valves are factory set for either natural gas or LP gas. Order the correct model for your requirements.

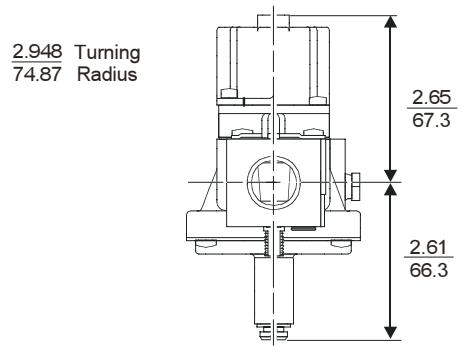
Other models may be made available depending upon customer requirements. Contact BASO Gas Products for availability of products not shown.

### Selection Chart

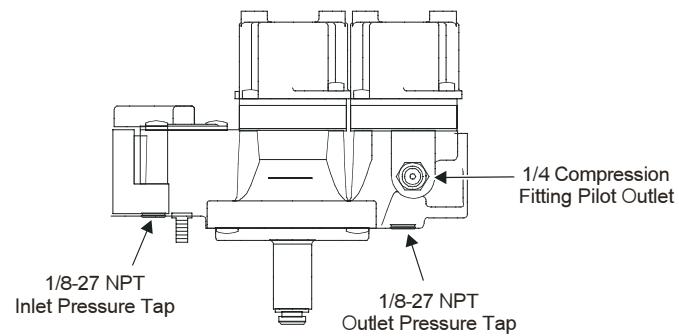
Code Number	Inlet and Outlet Female NPT	VAC (60 Hz)	Pilot Tap (in.) NPT	Pressure Tap (in.) NPT	Regulator Adjustment Location	Electrical Connection
G196GH-2	1/2 in. x 1/2 in.	25	1/4 cc right	1/8-27 bottom	Bottom	1/4 in. male spade
G196GH-7		25	1/8-27 left and right	1/8-27 bottom	Bottom	18 in. leads
G196HGK-2		25	1/8-27 left and right	1/8-27 bottom	Bottom	18 in. leads
G196JGA-1	1/2 in. x 3/4 in.	25	1/8-27 left and right	1/8-27 bottom	Top	1/4 in. male spade
G196NGH-1	1/2 in. x 3/8 in.	25	1/4 cc right	1/8-27 bottom	Bottom	1/4 in. male spade

### Conversion Kit Selection Chart

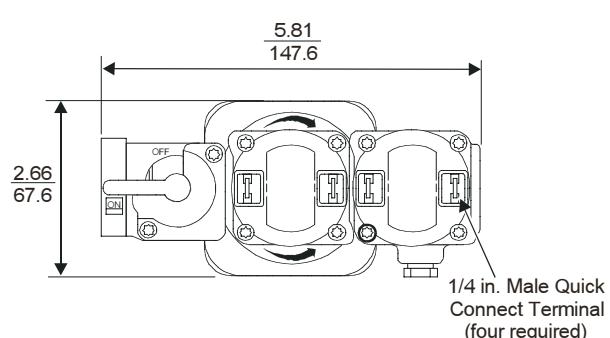
Conversion Kit	Regulator Adjustment Location	Part Number
Conversion Kit for Regulation to Non-Regulation	Top or Bottom	Y71AA-5
Conversion Kit for 6 to 12 in. W.C. (15 to 30 mbar) Regulation	Top	Y71GF-4
Conversion Kit for 3 to 6 in. W.C. (7.5 to 15 mbar) Regulation	Top	Y71QH-2
Conversion Kit for 8 to 12 in. W.C. (20 to 30 mbar) Regulation	Bottom	Y71GF-3
Conversion Kit for 3 to 6 in. W.C. (7.5 to 15 mbar) Regulation	Bottom	Y71QH-3



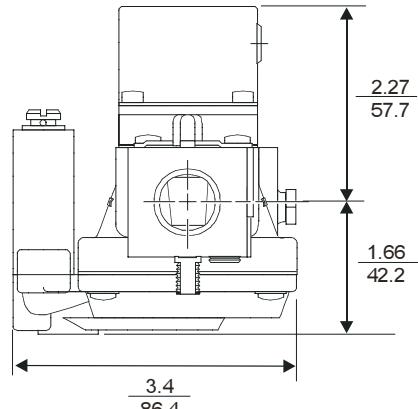
**Inlet View**  
**Bottom Adjust Regulator**



**Right Side View**  
**Bottom Adjust Regulator**

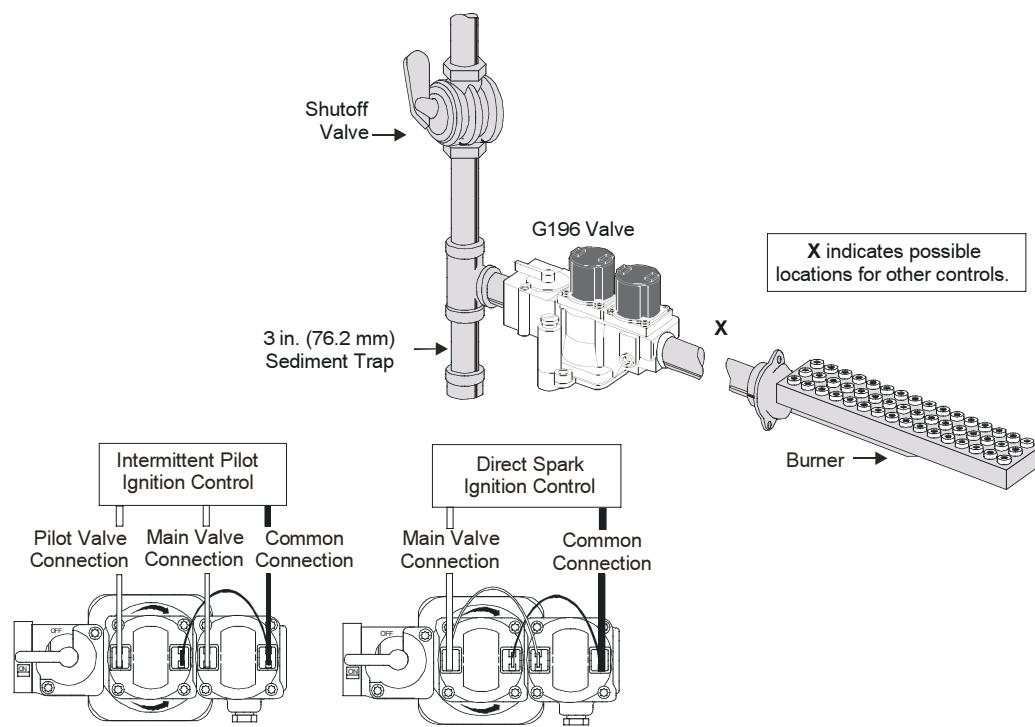


**Top View**  
**Top Adjust Regulator**



**Inlet View**  
**Top Adjust Regulator**

### G196 Dimensions (in./mm)



**Typical G196 Installation and Wiring**



## GM-7000 Series BASOTROL® CE Approved Gas Valve

BASO Gas Products LLC

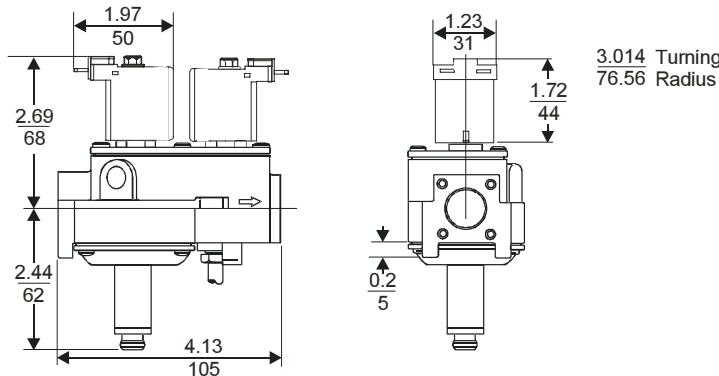


### Selection Chart

Code Number	Inlet and Outlet	VAC (50/60 Hz)	Pilot Tap (in.) NPT	Pressure Tap (mm)	Regulator Adjustment Location
GM-7532-3856	1/2 X 1/2 BSPP	24	7/16-24 UNS-2B/ 1/4 in. tube fitting	M5X.8	Bottom
GM-7532-3856M		24	7/16-24 UNS-2B/plugged		Bottom
GM-7532-3858		24	7/16-24 UNS-2B/plugged		Bottom

### Conversion Kit Selection Chart

Conversion Kit	Part Number
Conversion Kit for Regulation to Non-Regulation	GM-70-CBP
Conversion Kit for LP Regulation	GM-70-CLP
Conversion Kit for Natural Gas Regulation	GM-70-CNG



**GM-7000 Dimensions (in./mm)**

### Description

The GM-7000 Series gas valve provides fully automatic control for light commercial heating, commercial cooking appliances, commercial tumbler dryers, and similar applications. The GM-7000 can be used with natural gas and LP gas, at pressures up to 0.5 psi and is field convertible with a conversion kit.

### Specifications

- Maximum inlet pressure is 0.5 psi
- Natural Gas Capacity Btu/hr at 1 in. pressure drop is 100,000
- Maximum ambient (surface) temperature is 32 to 158°F (0 to 70°C)

### Agency Listing

- CSA (AGA/CGA) Certificate Number 229521-1656114
- EC Type Examination Certificate Number C87AP57
- Supplementary EC Certificate Number EC-87/94/57/M2

### To Order

To order genuine BASO products, call 1-877-227-6427 (1-877-BASOGAS). Specify the code number from the following selection chart. The GM7000 valves are factory set for either natural gas or LP gas. Order the correct model for your requirements.

Other models may be made available depending upon customer requirements. Contact BASO Gas Products for availability of products not shown.



## Q15HAA-1 BASOTROL® Retrofit Gas Control System

BASO Gas Products LLC



### Parts Included

- G600AX-1 spark ignition control
- G96JGA-3 gas valve
- Y75RJ-1 retrofit sensing probe kit
- 1/8 in. NPT to 1/4 in. cc pilot tap adapter
- four 1/4 in. female quick disconnects
- flame rectification extension
- spacers and cone shaped nut
- 3/4 in. to 1/2 in. reducer bushing
- sensing probe cable
- 1/4 in. compression fitting
- retrofit package installation instructions and a pressure sensitive lighting instruction sticker

### Description

The Q15 system uses a solid-state electronic ignition control to light a pilot burner by spark. Pilot gas is ignited and burns during each running cycle. The Q15 is typically used when converting a standing pilot application to a more fuel efficient intermittent spark pilot system. It permits the main gas valve to open only when the pilot burner is proven to be lit. The Q15 can be used with gas burning equipment that uses a proven pilot (**natural gas applications only**). With its fast response to loss of flame, the Q15 is ideal for power vent or gravity vent equipment.

### Specifications

- Maximum inlet pressure is 0.5 psi
- Natural Gas Capacity Btu/hr at 1 in. pressure drop is 190,000
- Permissible ambient (surface) temperature is -20 to 150°F (-30 to 66°C)
- Turning radius 3.875 in./98.43 mm
- 25 VAC, 60 Hz
- 1/2 in. x 3/4 in. inlet and outlet

### Agency Listing

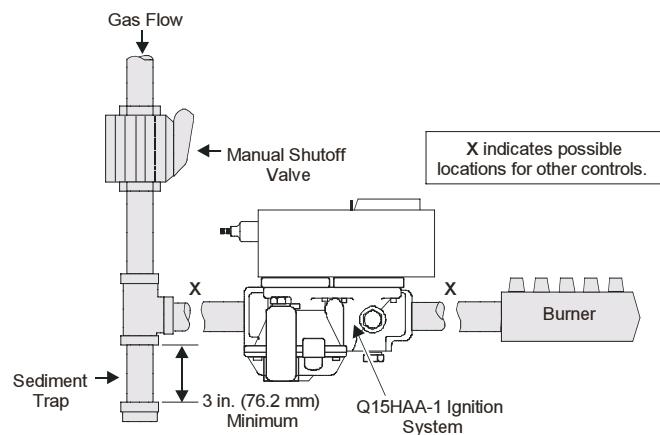
- None

### Electrical Connections

- 1/4 in. male quick-connect terminals

### To Order

To order genuine BASO products, call 1-877-227-6427 (1-877-BASOGAS).

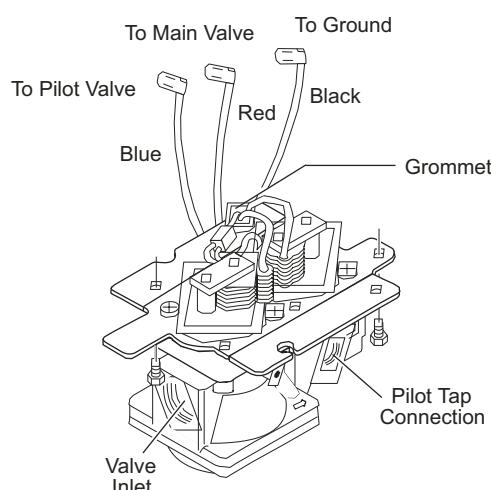
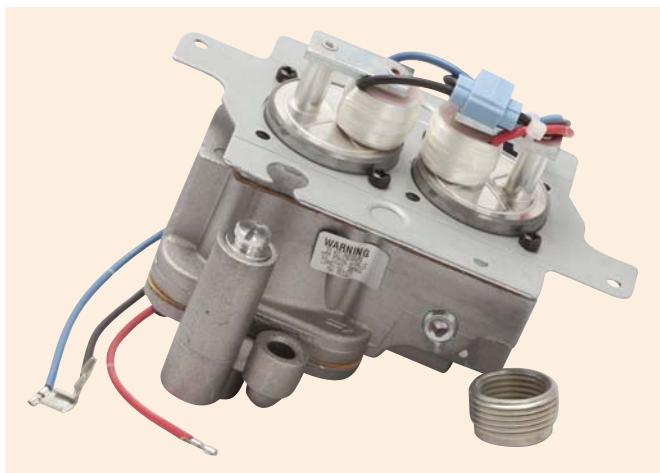


### Typical Q15HAA-1 Installation



BASO Gas Products LLC

## VLV Series BASOTROL® Universal Replacement Gas Valve



**Typical VLV Wiring**

**Selection Chart**

Code Number	Inlet and Outlet Female NPT	VAC (60 Hz)	Pilot Tap (in.) NPT	Pressure Tap (in.) NPT	Regulator Adjustment Location	Electrical Connection
VLV34A-648R	1/2 in. x 3/4 in.	25	1/8-27 left and right	1/8-27 bottom	Top	13 in. leads
VLV49A-600R		25	1/8-27 left and right	1/8-27 bottom	Bottom	8.5 in. leads
VLV49A-601R		25	1/8-27 left and right	1/8-27 bottom	Top	8.5 in. leads
VLV49A-602R		25	1/8-27 left and right	1/8-27 bottom	None	8.5 in leads

**Conversion Kit Selection Chart**

Conversion Kit	Regulator Adjustment Location	Part Number
Conversion Kit for Regulation to Non-Regulation	Top or Bottom	Y71AA-5
Conversion Kit for 15 to 30 mbar (6 to 12 in. W.C.) Regulation	Top	Y71GF-4
Conversion Kit for 20 to 30 mbar (8 to 12 in. W.C.) Regulation	Bottom	Y71GF-3