

**36G22-254**

## 36G / J Series HSI / DSI / Intermittent / Proven Pilot

Electronic ignition gas valve. The versatile 36G/36J series combination gas valve covers a wide range of applications. Designed for use with common ignition systems (HSI/DSI/ Intermittent/Proven Pilot). This series is our most compact footprint combination gas valve.

### Features

- Designed for hot surface, direct spark and intermittent pilot ignition systems and features a compact footprint and versatile range
- Fast open, slow open, single and two stage models
- Electric on-off switch and convenient quick connect coil terminals and built-in pressure taps
- Tamper resistant screws and controlled gasket compression to withstand high inlet pressures
- Mounts in any position including upside down

### Specifications

Operating voltage.....24 VAC 50/60 Hz  
 Electrical rating - single stage .....3 amps  
 Electrical rating - two stage .....43 amps  
 Ambient operating range.....-40 to 175°F (-40 to 79°C)  
 Maximum pressure rating.....1/2" PSI (14.0" WC)  
 CSA/CUS certificate number.....1175379  
 .....CE (36J)

Valve (stages)	Pipe size	1" Pressure drop capacity Natural gas .64 Sp. Gr. (1000 Btu/ft <sup>3</sup> )	1" Pressure drop capacity LP gas 1.53 Sp. Gr. (2500 Btu/ft <sup>3</sup> )	Range of regulation Natural gas .64 Sp. Gr. (1000 Btu/ft <sup>3</sup> )	Range of regulation LP gas 1.53 Sp. Gr. (2500 Btu/ft <sup>3</sup> )
Single	1/2" x 1/2"	140,000	226,800	40,000-210,000	60,000-340,000
Two	1/2" x 1/2"	140,000	226,800	20,000 Low-210,000 High	32,000 Low-340,000 High
Modulating	1/2" x 1/2"	140,000	226,800	20,000-210,000	32,600-340,000

### 36G / J Series HSI / DSI / Intermittent / Proven Pilot

Voltage	Stages / opening	Pipe size	Regulator setting	Natural gas adj. Range (wc)	Lp gas adj. Range (wc)	Lp kit included	Reducer bushing kit	Flow direction	Side taps	Inlet / outlet Pressure tap	Hsi / dsi	Intermittent / Proven pilot	Flange mount capable	Model number	Item number
24 VAC 50/60Hz	1 - Stage Fast Open	1/2" X 1/2"	3.5"	2.5"-5.0"	7.0"-12.0"	No**	No	Str. Thru	No	Yes / Yes*	Yes	No	No	36G22-254	36G22-254
24 VAC 50/60Hz	1 - Stage Fast Open	1/2" X 1/2"	3.5"	2.5"-5.0"	7.0"-12.0"	Yes	No	Str. Thru	No	Yes / Yes* NPT & Towers	Yes	Yes	Yes	36G32-500	36G32-500
24 VAC 50/60Hz	1 - Stage Slow Open	1/2" X 1/2"	3.5"	2.5"-5.0"	7.0"-12.0"	Yes	No	Str. Thru	No	Yes / Yes* NPT & Towers	Yes	Yes	Yes	36G33-500	36G33-500
24 VAC 50/60Hz	1 - Stage Fast Open	1/2" X 1/2"	3.5"	2.5"-5.0"	7.0"-12.0"	Yes	Yes	Str. Thru	No	Yes / Yes	Yes	No	No	36J22-214	36J22-214
24 Vac 50/60Hz	1 - Stage Fast Open	1/2" X 1/2"	3.5"	2.5"-5.0"	7.0"-12.0"	Yes	No	Str. Thru	No	Yes / Yes	Yes	No	No	36J22Y-212	36J22Y-212
24 VAC 50/60Hz	1 - Stage Slow Open	1/2" X 1/2"	3.5"	2.5"-5.0"	7.0"-12.0"	Yes	Yes	Str. Thru	No	Yes / Yes	Yes	No	No	36J24-214	36J24-214

\* NOTE: Not for Standing Pilot.

\*\* To measure outlet pressure on valves, loosen outlet pressure tap screw one quarter turn and put manometer hose over the top of the outlet pressure tap.  
 Use F92-0659 to convert to regulated L.P. gas.  
 See White-Rodgers General Information for capacities of other gases.

## 36G / J series HSI / DSI / Intermittent / Proven Pilot &lt;cont'd&gt;

Voltage	Stages / opening	Pipe size	Regulator setting	Natural gas adj. Range (wc)	Lp gas adj. Range (wc)	Lp kit included	Reducer bushing kit	Flow direction	Side taps	Inlet / outlet Pressure tap	HSI / dsi	Intermittent / Proven pilot	Flange mount capable	Model number	Item number
24 VAC 50/60Hz	Modulating	1/2" X 1/2"	3.5"	0.4"-4.0"	1.3"-11.5"	Yes	Yes	Str. Thru	No	Yes / Yes	Yes	No	No	36J27-554	36J27-554
24 VAC 50/60Hz	2 - Stage Fast Open	1/2" X 1/2"	1.5" Low 3.5" High	1.0"-4.0" Low 2.0"-5.0" High	4.0"-10.0" Low 6.0"-12.0" High	Yes	Yes	Str. Thru	No	Yes / Yes*	Yes	No	No	36J54-214	36J54-214
24 VAC 50/60Hz	2 - Stage Slow Open	1/2" X 1/2"	1.5" Low 3.5" High	1.0"-4.0" Low 2.0"-5.0" High	4.0"-10.0" Low 6.0"-12.0" High	Yes	Yes	Str. Thru	No	Yes / Yes*	Yes	No	No	36J55-214	36J55-214
24 VAC 50/60Hz	1 - Stage Slow Open	1/2" X 1/2"	3.5"	2.5"-5.0"	7.0"-12.0"	Yes	No	90° Bottom Outlet	No	Yes / Yes*	Yes	No	No	36J24-614	36J24-614
24 VAC 50/60Hz	2 - Stage Slow Open	1/2" X 1/2"	1.5" Low 3.5" High	1.0"-4.0" Low 2.0"-5.0" High	4.0"-10.0" Low 6.0"-12.0" High	Yes	No	90° Bottom Outlet	No	Yes / Yes*	Yes	No	No	36J55-614	36J55-614

NOTE: Not for Standing Pilot / Intermittent / Proven Pilot.

See White-Rodgers General Information for capacities of other gases.

- \* To measure outlet pressure on valves, loosen outlet pressure tap screw one quarter turn and put manometer hose over the top of the outlet pressure tap.
- \*\* Use F92-0659 to convert to regulated L.P. gas.

## Parts and accessories




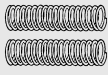
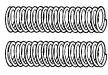
Image	Description	Model number	Item number
	LP to Natural Gas Conversion Kit for Use On Single Stage 36C, D, E, F, G, H, J Valves, Regulation Range 2.5" to 5.0"W.C.	F92-0656	F0092 065600S1
	Natural to Regulated LP Gas Conversion Kit for Use On Single Stage 36C, D, E, F, G, H, J Valves. Regulation Range 7.0" to 12.0"W.C.	F92-0659	F0092 065900S1
	Adapter Kit for The 36G Gas Valves. Kit Includes: Connector (5/16" to 1/4" Hose Barb), Tube (5/16" O.D.) and Hex Wrench (3/32")	F92-1003	F0092 100300S1
	Natural to Regulated LP Gas Conversion Kit for Use On Two Stage 36G, H, J, Valves, Regulation Range 4.0" to 10.0"W.C. Low Fire, 6.0" to 12.0"W.C. High Fire	F92-1008	F0092 100800
	Regulated LP to Natural Gas Conversion Kit for Use On Two Stage 36G, H, J, Valves, Regulation Range 1.0" to 4.0"W.C. Low Fire, 2.0" to 5.0"W.C. High Fire	F92-1011	F0092 101100

Fig. 1: Single stage valve features, terminals and wiring

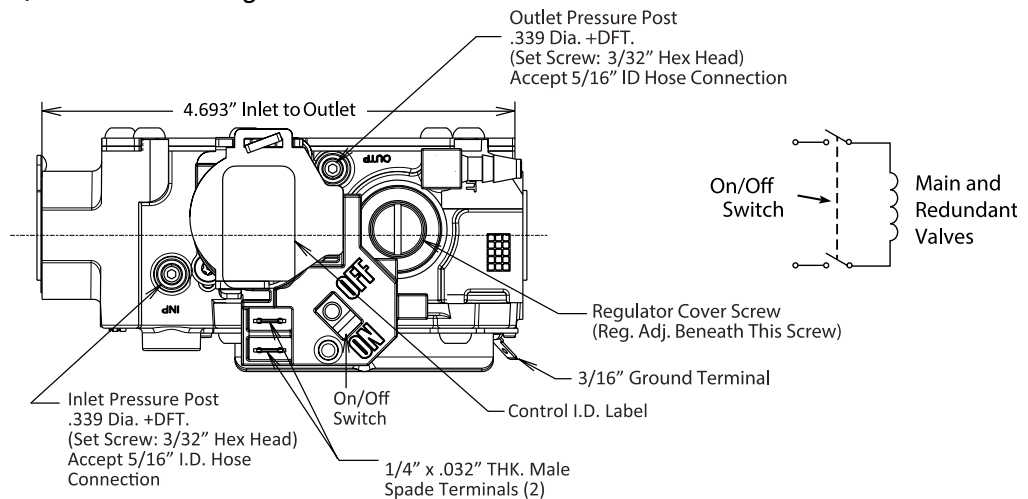


Fig. 2: Two-stage valve features, terminals and wiring

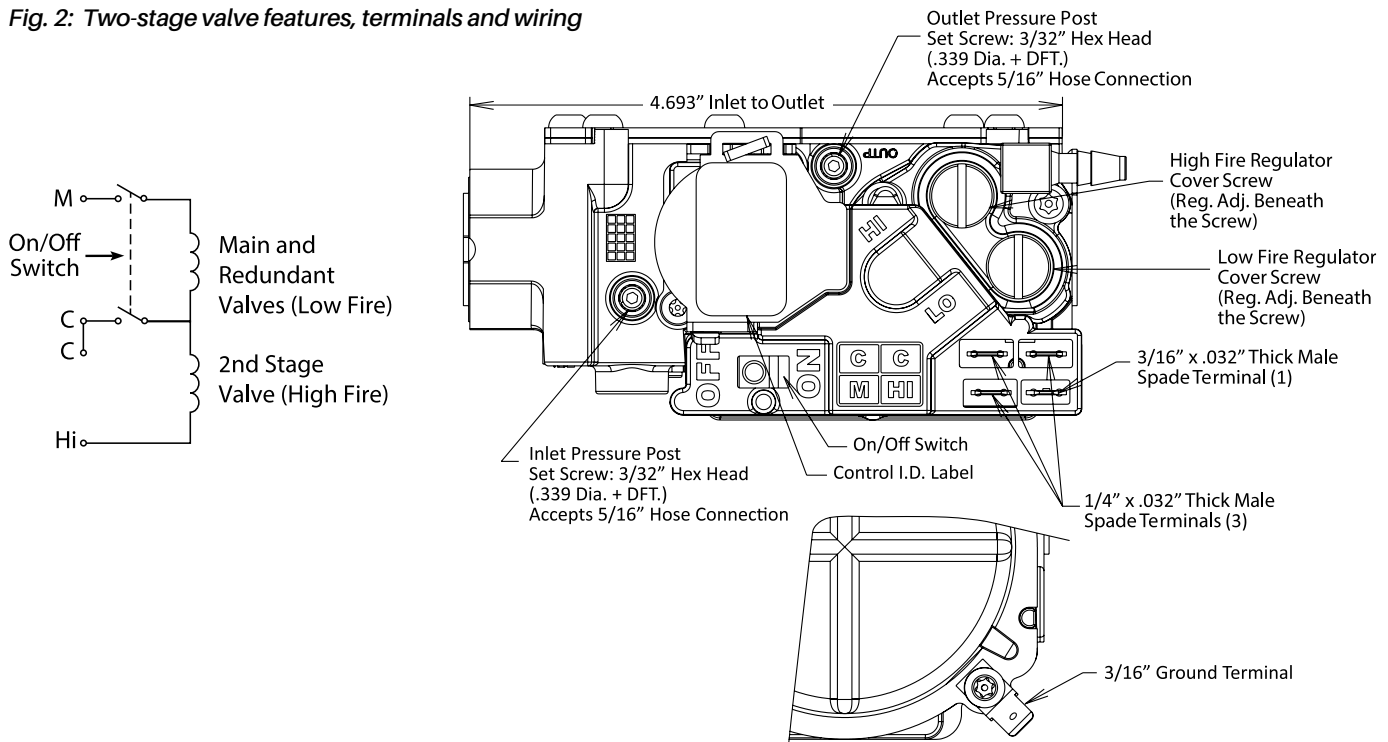
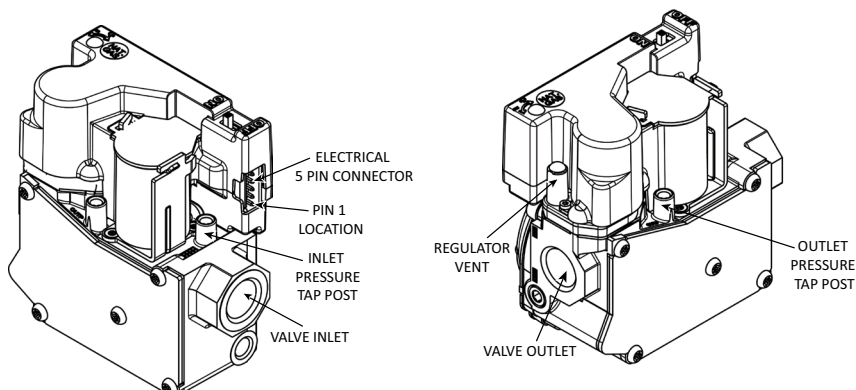


Fig. 3: 36J27 modulating valve features



Electrical 5 PIN Connector Pin Out

- PIN 5 - TH - Main Valve 24 VAC (top pin, with the cover pointing up)
- PIN 4 - TR - Ground
- PIN 3 - TX - Communication to IFC
- PIN 2 - RX - Communication to Stepper
- PIN 1 - TH - Board 24VAC (bottom pin, with the cover pointing up)