Dual Solenoid Gas Valve



Description

The Flynn Dual Solenoid Gas Valve consists of 2 solenoid valves in 1 body. The Flynn Dual Solenoid Gas Valve can be used with any clean gaseous fuel, natural gas, propane, butane, LPG, LNG, etc, at pressures up to 2 PSIG.

Specifications

3/8" & 1/2" NPT/BSPP

Maximum inlet pressure is 2 PSIG

Permissible ambient (surface) temperature is -20 to 175°F (-29 to 79°C)

24 VAC, 120 VAC, 240 VAC

Agency Listing

UL Approved

CSA (AA/CGA) Certificate Number 23226265

EC Type Examination Certificate Number EC-86/10/062/M16

Other

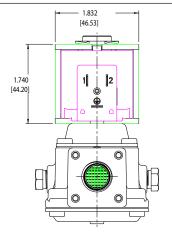
Meets dual solenoid valve requirement of NFPA 86 for inputs ≤ 150,000 BTU/HR & Canadian Standard CAN I-6.5

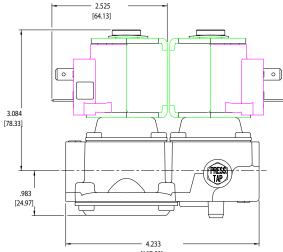
Selection Chart

Part Number	Inlet & Outlet	VAC (50/60 Hz)
408 329	3%" x 3%" NPT	24 VAC
408 328	3%" x 3%" NPT	120 VAC
408 311	¾" x ¾" NPT	240 VAC
408 130	3%" x 3%" BSPT	24 VAC
408 129	%" x %" BSPT	120 VAC
408 519	¾" x ¾" BSPT	240 VAC
408 321	½" x ½" NPT	24 VAC
408 040	½" x ½" NPT	120 VAC

Dual Solenoid Gas Valve

Dimensions





Technical Specifications

recilinear specimeations	[107.57]	
Types of Gas	2nd (Natural Gas), and 3rd (LP Gas) Family Gases	
Permissible Ambient (Surface) Temperature	-20 to 175°F (-29 to 79°C)	
Electrical Ratings	24 VAC, 50/60 Hz, 0.595A	
	120 VAC, 50/60 Hz, 0.13A	
	240 VAC, 50/60 Hz, 0.063A	
Maximum Operating Pressure	North America: 2 ps i	
	Europe: 138 mbar	
Reverse Pressure Ratings	150 mbar (15 kPa) (60 in. W.C.); Class A (EN 161)	
Inlet Pipe Size	3/8 in. NPT or 1/2 in. NPT, 3/8 BSPP or 1/2 BSPP	
Outlet Pipe Size	3/8 in. NPT or 1/2 in. NPT, 3/8 BSPP or 1/2 BSPP	
Valve Torsion Group	Group 2 (EN 161)	
Pressure Connection	1/8 in. NPT or M5 x 0.8 thread bottom	
Dirt Strainer	0.9 mm (0.035 in.) Mesh	
Operating Time Rating	100% Continuous	
Valve Timings Power Rating	Closing Time: ≤ 1 Second	
	Opening Time: ≤ 1 Second	
	Dead Time: < 1 Second	
Power Rating	15 VA per Coil	
Agency Listings	UL Listed	
	CSA Certificate Number 23226265	
	EC Type Examination Certificate Number EC-86/10/062/M16	
Specification Standards	EN 161	
	Standards Complying with the EMC Directive	
	Standards Complying with the Low Voltage Directive	
	ANSI Standards Z21.21	
	Canadian Standard CSA 6.5	
	EC Certificate EC-86/10/062/M16	

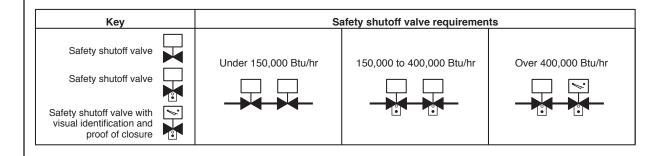
Dual Solenoid Gas Valve

Dual Valve Requirement of the 2015 edition of NFPA 86 Standards - *Ovens & Furnaces*-Section 8.8.2, 8.8.2.1 and A.8.8.2

8.8.2* Fuel Gas Safety Shutoff Valves.

- **8.8.2.1** Each main and pilot fuel gas burner system shall be separately equipped with either of the following:
- (1) Two safety shutoff valves piped in series
- (2) For radiant tube–fired burner systems only, a single safety shutoff valve where either of the following conditions is satisfied:
 - (a) The tubes are of metal construction and open at one or both ends with heat recovery systems, if used, that are of explosion-resistant construction.
 - (b) The entire radiant tube heating system, including any associated heat recovery system, is of explosion-resistant construction.

A.8.8.2 (from NFPA-86 2011)



Reproduced with permission from NFPA 86, *Ovens & Furnaces*, Copyright© 2015, National Fire Protection Association. This reprinted material is not the complete and official position of the NFPA on the referenced subject, which is represented only by the standard in its entirety.

FLYNN BURNER DUAL SOLENOID VALVE INSTALLATION INSTRUCTIONS

Installation

IMPORTANT: These instructions are intended as a guide for qualified personnel installing or servicing equipment. Carefully follow all instructions in this bulletin and all instructions on the appliance. Limit repairs, adjustments, and servicing to the operations listed in this bulletin or on the appliance.



WARNING: Risk of Fire or Explosion.

The system must meet all applicable local, national, and regional regulations. Improper installation may cause gas leaks, explosions, property damage, and injuries.



WARNING: Risk of Fire or Explosion.

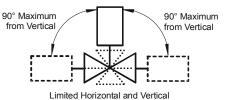
To prevent leakage of upstream gas, shut off the gas supply at the main manual shutoff valve before installing or servicing the dual solenoid valve. Failure to shut off the gas supply can result in the release of gas during installation or servicing, which can lead to an explosion or fire, and may result in severe personal injury or death.

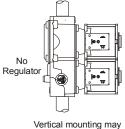
Mounting

caution: Risk of Equipment Damage. To prevent damage to the valve when mounting to pipework, do not use a wrench on any surface other than the casting flats provided at the inlet and outlet ends of the valve body.

To install the dual solenoid valve:

- 1. Ensure that the specified maximum ambient (surface) temperature is not exceeded 175 degrees Farenheit.
- 2. Ensure that the power supply voltage is compatible with the required control valve voltage.
- 3. When installing the valve on the manifold, ensure that the gas flows through the valve body in the direction indicated by the arrow on the valve body. If the valve is installed with the gas flow in the opposite direction of the arrow, leakage can occur.
- 4. Shut off the gas at the main manual shutoff valve.
- 5. Mount the valve to the pipework. The dual solenoid valve may be mounted on a horizontal manifold with the solenoid coils pointed up (vertical) or in any position not exceeding 90° from the vertical. The valve also may be mounted on a vertical manifold in any position around its axis (see Figure 1). Do not install the solenoid coil upside down. Install vertically wherever possible.





Vertical mounting may be 360° around its axis with the gas flow either up or down, but always in the direction of the arrow.

Figure 1: Flynn Dual Solenoid Valve Mounting Positions