

2-Way Normally Closed Low Temperature Gas Shutoff Valve

With Proof of Closure

2/2 SERIES HV434696 (DC Peak & Hold) HV434562 (AC)

Stainless Steel Body • 1" NPT

Features

- Proof-of-Closure Switch Class I, Div. 1 enclosure
- Ambient temperature range; -40°F to 125°F (-40°C to 52°C)
 Low power DC Peak & Hold constructions reduce
- Low power DC Peak & Hold constructions reduce energy consumption to 0.85 watt (Hold)
- Zero minimum pressure differential
- Maximum operating pressure differential up to 50 psi
- Resilient soft seating for tight shutoff
- Complies with ANSI/ISA-12.27.01.2003 single seal requirements
- Meets the metallurgical requirements of NACE MR0175-2003 (DC only)
- For on-off or gas pilot control of commercial and industrial gas burners

Fluid: Fuel Gas

Construction

Valve Parts in Contact with Fluids							
Body	304 Stainless Steel						
Seals and Disc	- Low Temp. NBR						
Diaphragm							
Core Tube	305 Stainless Steel						
Rider Ring	PTFE						
Core and Plugnut	430F Stainless Steel						
Springs	Stainless Steel (AC), Inconel (DC)						

Electrical

		DC	Peak & Hold			
Standard Coil and Class of	Watt Rating Consu	and Power	Hold PWM Duty Cycle (@ 500-2000 Hz)	Spare Coil Number	Nominal Ambient	
	Peak Watts	Hold Watts	Min.	Explosionproof		
F	23.6	0.85 ①	19%	501696	-40 to 125 (-40 to 52)	
Standard	Voltages: 12,	24VDC				

D Peak and hold design requires full line voltage for 0.2 to 0.5 seconds to open valve; then refer to the specified Hold PWM Duty Cycle in the above table. External PWM controller required; Consult factory for additional information.

IMPORTANT: Supervisory and leakage current above .010 amp will cause improper operation. Consult your local ASCO sales office for additional assistance.

			AC			
Standard Coil and		Rating and Consumptio		Spare Coil Number	Nominal	
Class of Insulation	Watts	VA Holding	VA Inrush	Explosionproof	Ambient Temp. °F (°C)	
F	16.1	35	180	272614	-40 to 125 (-40 to 52)	
Standard Vol	tages: 24, 1	20, 240 Vol	ts AC, 60Hz	c (or 110, 220, 230 vo	Its AC, 50 Hz)	

Solenoid Enclosures

Explosionproof and Watertight Types 3, 3S, 4, 4X, 6, 6P, 7, and 9

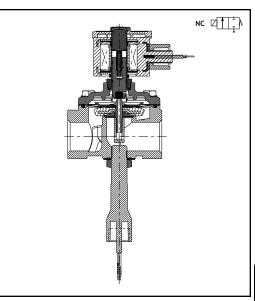
Leads

Standard 72" for coil & POC switch

Valve Response Time

Opening Time: Less than 1 second; Closing Time: Less than 1 second





Approvals

CSA Certified

- 1) Valves for Hazardous Locations, File 013976
- 2) Automatic Gas Valves Z21.21 CSA 6.5 C/I Safety Shutoff, File 112872
- 3) Standard C22.2 No. 139 "Electrically Operated Valves, File 112872

4)ANSI/ISA- 12.27.01- 2003 Single Seal requirements *Consult factory for Canadian Registration Numbers (CRN)*

Proof of Closure Switch

Switch is factory set and non-adjustable Type: Hermetically Sealed SPDT Electrical Load: 2 amp at 120/60 / 1 amp at 24 VDC Enclosure: 303 Stainless Steel, Class I, Div. 1



Specifications

cy	Agency	Const. Ref.	tage	Vol	Catalan	Fluid Temp. Range	Operating Pressure Differential (psi) ③		Gas Capacity			Orifice	Pipe
A Wattage	CSA		AC	DC	Catalog Number	°F (°C) @	Max.	Min.	Btu/hr. @	Btu/hr. ①	Cv Flow	Size (in)	Size (in)
							ized)	n de-energ	ed (Closed whe	- Normally Clos	iel Gas)	STION (F	COMBU
23.6		4	-	12 VDC	HV434696011		50						
23.0	0		-	24 VDC	HV434696012		50						
			24/60	-	HV434562001 -								
			120/60	-	HV434562002	-40 to 125		0	00 6,509,000	544,000	10.2	4	4
16.1		2	240/60	-	HV434562004	(-40 to 52)	35						1
10.1	0	2	110/50	-	HV434562003		30						
			220/50	-	HV434562005								
			230/50	-	HV434562006								
						Gravity Gas	64 Specific	or more 0	1.000 Btu/Cu.ft	Inlet Pressure		ety Shuto	

2 Per CSA 6.5 at 25% Inlet Pressure / 10% pressure drop

3 Dewpoint - To prevent freezing of condensed water vapor in the valve, the fuel gas must have a dewpoint of at least 18°F (10°C) below the minumum temperature to which any point of the system will be exposed.

④ Safe Working Pressure (SWP): 100 psi, is the line or system pressure to which the valve may be subjected without being damaged. To ensure proper operation, the Maximum Operating Pressure Differential (MOPD) stamped on the nameplate must be adhered to.

Dimensions: Inches (mm)

