ASCO®

2-Way Nomally Closed

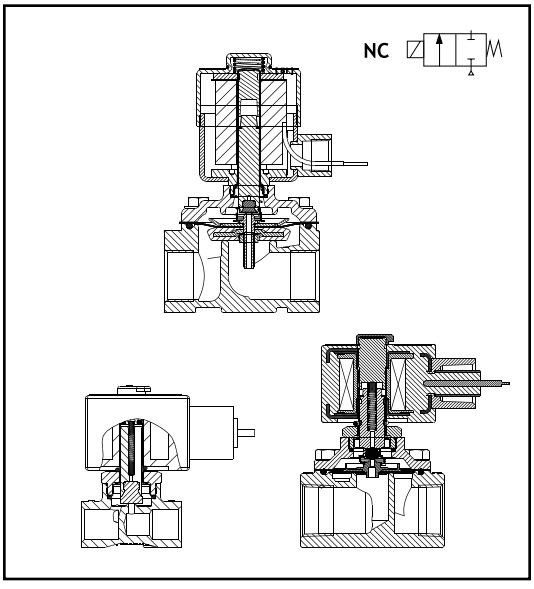
Low Temperature Gas Shutoff Valve (DC)

Stainless Steel Body • 1/4" to 1" NPT

2/2
SERIES
HV426716
HV426780
HV285926

Features

- Ambient temperature range; -40˚F to 125˚F (-40˚C to 52˚C)
- Zero minimum differential pressure
- Maximum operating pressure differential up to 50 psi
- Robust design provides consistent and reliable operation
- Meets Automatic Gas Valves Z21.21, CSA 6.5 C/I Safety Shutoff standard
- Complies with ANSI/ISA-12.27.01.2003 single seal requirements
- Meets the metallurgical requirements of NACE MR-0175
- Resilient soft seating for tight shutoff
- For on-off control of fuel gas in 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 (1/2", 3/4") Low Temp. FKM (1/4", 3/8", 1")
Diaphragm	Low Temp. NBR (1/2", 3/4") Low Temp. HNBR (1")
Core Tube	305 Stainless Steel
Core and Plugnut	430F Stainless Steel
Springs	Inconel
Rider Ring	PTFE (1/4" through 3/4")

Electrical

Standard Coil and Class of Insulation	Watt Rating DC (Watts)	Ambient Temp. ºF (ºC)	Spare Coil Family Explosionproof
H	10.6	-40 to 125˚F (-40 to 52˚C)	238514
	11.6		238914
	12.1		274646

Standard Voltages: 12, 24VDC
Note: Not for use with solenoid drivers or peak and hold external controllers.

Solenoid Enclosures

1/4" through 3/4" - Explosionproof & Watertight, Types 3, 3S, 4, 4X, 6, 6P, 7, and 9.
1" - Explosionproof, Types 3, 7, and 9.

Leads

Standard: 72" leads

Approvals

CSA Certified:

1) Solenoid (for HV426716 & HV426780 Series DC Constructions), and valve (HV285926 DC Construction) 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.

Consult factory for Canadian Registration Numbers (CRN).

UL Listed Explosionproof Solenoid.

Specifications

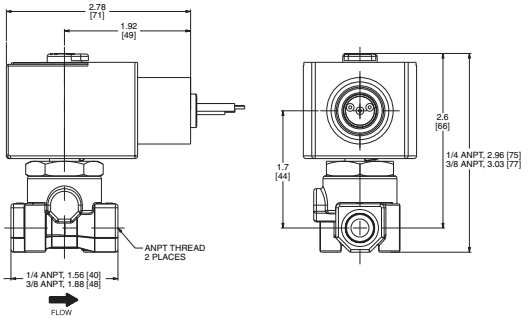
Pipe Size (in)	Orifice Size (in)	Cv Flow	Gas Capacity Btu/hr. ①	Gas Capacity Btu/hr. ②	Operating Pressure Differential (psi) ④ Min.	Operating Pressure Differential (psi) ④ Max.	Fluid Temp. Range °F (°C) ③	Catalog Number	Voltage	Const. Ref.	Agency UL	Agency FM	Agency CSA	Wattage
COMBUSTION (Fuel Gas) - Normally Closed (Closed when de-energized)														
1/4	5/32	0.52	27,000	410,000	0	50	-40 to 125°F (-40 to 52°C)	HV426716001	12 VDC	1	❒	-	❍	10.6
								HV426716002	24 VDC		❒	-	❍	
3/8	7/32	0.82	44,000	527,000	0	35	-40 to 125°F (-40 to 52°C)	HV426716101	12 VDC		❒	-	❍	
								HV426716102	24 VDC		❒	-	❍	
1/2	5/8	4.3	231,900	3,529,000	0	50	14 to 125°F (-10 to 52°C)	HV426780001	12 VDC	2	❒	-	❍	11.6
								HV426780002	24 VDC		❒	-	❍	
3/4	5/8	4.5	242,600	3,693,000	0	50	14 to 125°F (-10 to 52°C)	HV426780101	12 VDC		❒	-	❍	
								HV426780102	24 VDC		❒	-	❍	
1	1	13	701,000	8,268,480	0	35	14 to 125°F (-10 to 52°C)	HV285926001	12 VDC	3	-	-	❍	12.1
								HV285926002	24 VDC		-	-	❍	

❍ = Safety Shutoff Valve. ❒ UL Listed Hazardous Location, solenoid only. ① 1" W.C. Drop @ 2" W.C. Inlet Pressure, 1,000 Btu/cu.ft. or more, 0.64 Specific Gravity Gas.
② 10% of MOPD pressure drop @ 25% of MOPD inlet pressure, 1,000 Btu/cu.ft. or more, 0.64 Specific Gravity Gas (based on CSA 6.5).
③ Dewpoint - To prevent freezing of condensed water vapor in the valve, the fuel gas must have a dewpoint at least 10˚C (18˚F) below the minimum 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 nameplate must be adhered to.

Dimensions: inches [mm]

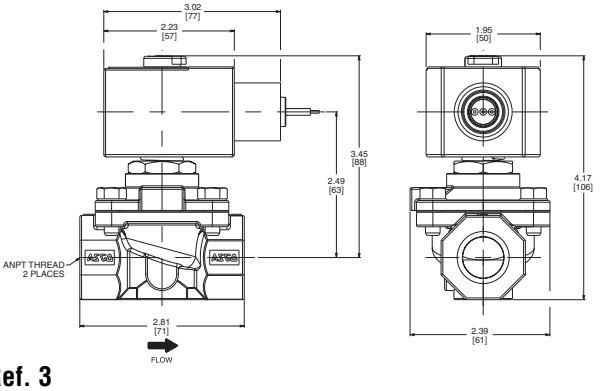
Const. Ref. 1

Can be mounted in any position.



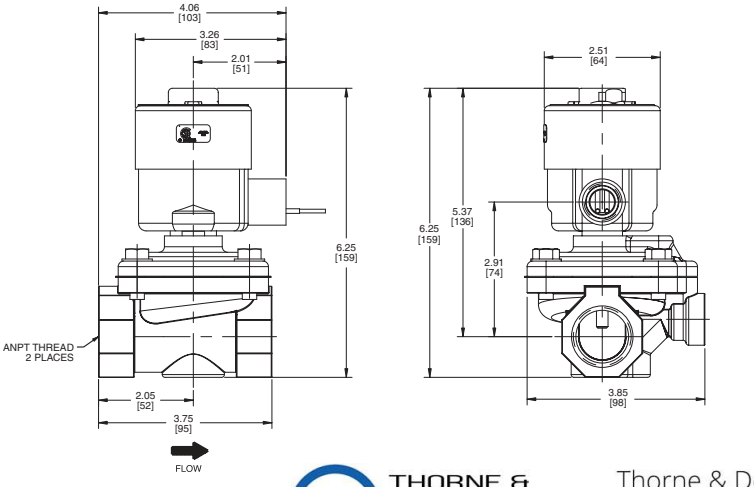
Const. Ref. 2

Can be mounted in any position.



Const. Ref. 3

Must be mounted with solenoid vertical and upright



COMBUSTION

THORNE & DERRICK INTERNATIONAL
Thorne & Derrick
+44 (0) 191 490 1547
www.heatingandprocess.com