### Features

- Designed for high flow piloting with no minimum operating pressure required; e.g. power plants, refineries, chemical processing
- Balanced Poppet construction for high flow at minimum power levels
- PTFE rider rings and graphite-filled seals reduce friction and eliminate sticking to provide exceptional service life
- 316 Stainless Steel construction for highly corrosive atmospheres
- Available with manual reset (See Special Service Section)
- Low power construction available for applications with power limitations
- NAMUR construction available

### Construction

	Star	dard Power	Low Power				
Body	Brass 316 Stainless Steel Brass 316 Stainles						
Core Tube	Sta	inless Steel	304 Stainless Steel				
Stem and Insert		303 Stain	less Steel				
Core and Plugnut	430F Stainless Steel						
0-ring Holder	430F Stainless Steel						
Springs	302 Stainless Steel						
	NBR	FKM	FKM				
Seals and Discs	VMQ (Low-1	Temp. Construction)	FVMQ (Low-Temp. Construction), PTFE (Hydraulic Construction)				
Rider Ring	PTFE						

### Electrical

	w		ng and Po umption	wer	Spare Coil Part Number						
Standard Coil and			AC		General Purpose Explos			onproof	Explosionproof EV		
Class of Insulation	DC Watts	Watts	VA Holding	VA Inrush	AC	DC	AC	DC	DC		
F	11.6	12	12	12	276000	238710	276002	238714	-		
F	2.0	-	-	-	-	501695	-	501696	521364		
F	2.4	-	-	-	-	-	-	521368	521372		
Н	2.7	-	-	-	-	440162	-	501694	521365		
Н	2.9	-	-	-	-	-	-	521369	521373		
Н	3.4	-	-	-	-	-	-	501694	521365		

Note. See next page for low power electrical information.

## Solenoid Enclosures

#### Standard:

**For Brass Valves:** Standard Solenoid enclosure is Types, 1, 2, 3, 3S, 4, and 4X. **For 316 Stainless Steel valves:** Standard Solenoid enclosure is Explosionproof and Watertight Types 3, 3S, 4, 4X, 6, and 6P.

**Optional:** Explosionproof and Watertight, Types 3, 3S, 4, 4X, 6, 6P, 7, and 9. (To order, add prefix "EF" or, for Explosionproof Stainless Steel trim and hub on Brass-Bodied valves, add "EV" to catalog number.

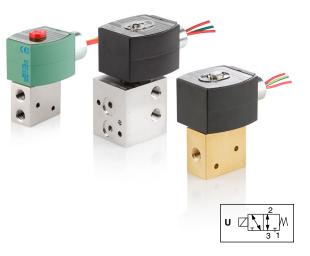
See Optional Features Section for other available options.

#### SIL (Safety Integrity Level) Information:\*

• SIL 3 capable, see engineering for FITs information.

\*Excludes constructions with manual operators





## Nominal Ambient Temp. Ranges

**8327G041 & 042:** -4°F to 131°F (-20°C to 55°C)

8327G051 & 052: -40°F to 131°F (-40°C to 55°C)

#### 8327H301, 302 & 305:

Class F: -4°F to 140°F (-20°C to 60°C) Class H: -4°F to 194°F (-20°C to 90°C)

8327H311 & 312: -58°F to 140°F (-50°C to 60°C)

**X327532287001F1, X327532287002F1:** -40°C to 60°C (-40°F to 140°F)

Refer to Engineering Section for details.

## Approvals

- UL & CSA solenoid only approvals for Explosionproof versions (8327 H Series)
- Meets applicable CE directives (General Purpose versions only)
- CSA certified, UL listed General Purpose Valves for (8327 G Series)

(Excludes low-power General Purpose coil constructions)

- Explosionproof/EV constructions carry:
- ATEX/IECEx approvals
- ATEX: II2G Ex db mb IIC Tx Gb
  II2D Ex mb tb IIIC Txx Db
- IECEx: Ex db mb IIC Tx Gb
  Ex mb tb IIIC Txx Db
- SIL 3 capable per IEC 61508. Third party certification by Exida. Refer to Engineering Section for details.



### **Electrical - Low Power**

Low Power Description	Wattage	Max. Ambient Temp.	UL/CSA T Code*	ATEX/IECEx T Code*	Insulation Class
Standard Ambient Version	2.0	140°F (60°C)	T6/85	T6/85°C	F
Surge Suppression Version	2.4	140°F (60°C)	10/00	10/00 0	F
High Ambient Version	2.7	194°F (90°C)	TC (100	T4/405	Н
Surge Suppression Version High Ambient	2.9	194°F (90°C)	(T6/85 @ 70°C Amb.)	T5/100 T4/135 T6/85 @ 70°C Amb.) (T5/100 @ 80°C Amb.)	
Battery Charging Circuit Version	3.4	194°F (90°C)	(10/05 @ 70 C AIIID.)	(15/100 @ 60 C AIIID.)	Н

\* Explosion-proof version only

Low Power Description	Prefix	Wattage	Voltage (DC)	Min Pull In (mA)	Drop Out (mA)	Coil Resistance @68°F (20°C) (ohms)
		2.0W	12V	108	39.7	75
Standard Ambiant Varaian			24V	50	19	290
Standard Ambient Version	-		48V	28	9.8	1155
			120V	10	3.7	7255
		2.4W	12V	115	42	53
Surge Suppression Version	ME		24V	54	20	235
(Explosionproof version only)	MF		48V	28	11	995
			120V	12	4.3	6075
			12V	117	41	60
lieb Ambient Mensier		0 7111	24V	57	19.7	215
High Ambient Version	HT	2.7W	48V	29	10	920
			120V	11	4	5700
		2.9W	12V	118	41	46
Surge Suppression Version	NALL.		24V	59	18.7	185
High Ambient (Explosionproof version only)	MH		48V	30	9.4	810
			120V	12	4	5115
Battery Charging (Explosionproof version only)	HC	3.4W	125V	12	4.3	4635

## Specifications English (Metric units)

Pipe	Cv Flow Cv Flow (Kv = m³/hr)		Maximum Operating Pressure Differential pși (bar)		Max. Fluid	Catalog Number			Watt Rating/ Class of Coil Insulation				
Size (in)	Size (in)	Ports 1-2	Ports 2-3	Air-Inert Gas	Water	Light Oil @ 300 SSU	Temp. °F (°C)	Brass Body	316 Stainless Steel Body	Const. Ref.	AC	DC	
UNIVERSA	UNIVERSAL OPERATION (Pressure at any port)												
1/4	1/4	0.49 (0.42)	0.56 (0.48)	150 (10.3)	150 (10.3)	150 (10.3)	176 (80)	8327G041	-	1	12.0/F	11.6/F	
1/4	1/4	0.49 (0.42)	0.56 (0.48)	150 (10.3)	150 (10.3)	150 (10.3)	248 (120)	-	EV8327G042	1	12.0/F	11.6/F	
UNIVERSAL LOW-TEMPERATURE OPERATION (Pressure at any port)													
1/4	1/4	0.49 (0.42)	0.56 (0.48)	150 (10.3)	-	-	131 (55)	8327G051	-	1	12.0/F	11.6/F	
1/4	1/4	0.49 (0.42)	0.56 (0.48)	150 (10.3)	-	-	131 (55)	-	EV8327G052	1	12.0/F	11.6/F	
UNIVERSA	L LOW-POW	ER OPERATION	N (Pressure at	any port)									
1/4	1/4	0.49 (0.42)	0.56 (0.48)	150 (10.3)	-	-	140 (60)	8327H311	8327H312	2	-	2.0/F ①	
1/4	1/4	0.49 (0.42)	0.56 (0.48)	150 (10.3)	150 (10.3)	150 (10.3)	140 (60)	8327H301	8327H302	2	-	2.0/F ①	
1/4	1/4	0.49 (0.42)	0.56 (0.48)	150 (10.3)	150 (10.3)	150 (10.3)	194 (90)	HT8327H301	HT8327H302	2	-	2.7/H ①	
UNIVERSA	L LOW-POW	ER OPERATION	NAMUR (Pre	ssure at any port	t)								
1/4	1/4	0.49 (0.42)	0.56 (0.48)	150 (10.3)	150 (10.3)	150 (10.3)	140 (60)	-	8327H305	3	-	2.0/F	
1/4	1/4	0.49 (0.42)	0.56 (0.48)	150 (10.3)	150 (10.3)	150 (10.3)	194 (90)	-	HT8327H305	3	-	2.7/F	
NORMALLY CLOSED OPERATION (Pressure at port 3)													
1/4	1/4	0.49 (0.42)	0.56 (0.48)	-	-	150 (10.3) ②	140 (60)	-	X327532287001F1 3	2	-	2.0/F	
1/4	1/4	0.49 (0.42)	0.56 (0.48)	-	-	150 (10.3) ②	140 (60)	-	X327532287002F1 ④	2	-	2.0/F	

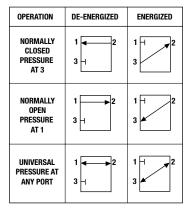
① Wattage will vary depending on prefix. ② Viscosity: 395 cST (1,800 SSU/SUS) maximum. Hydraulic Oils, UNIVIS HVI 13, MIL-H-5606 & Aeroshell Fluid #4.
 ③ X327532287001F1 - EF explosion-proof coil. ④ X327532287002F1 - EV explosion-proof coil.

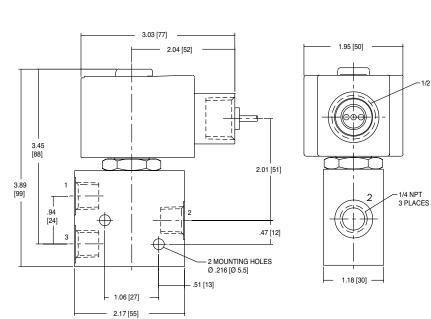


1/2 NPT

## Dimensions: inches (mm)

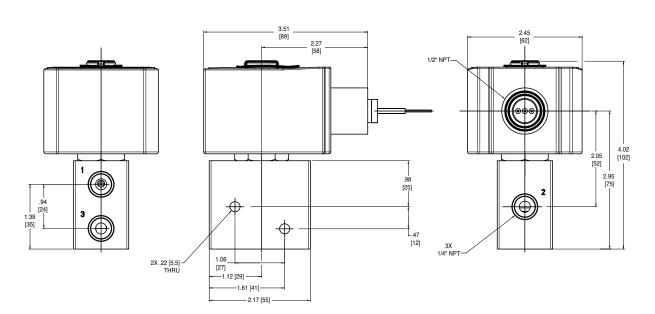
### **Flow Diagrams**





Const. Ref. 1

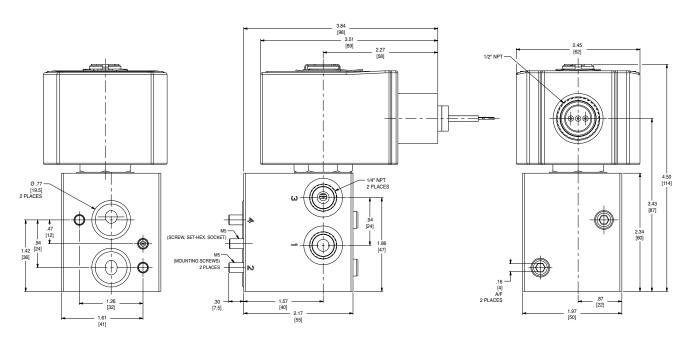
Const. Ref. 2



IMPORTANT: Valves may be mounted in any position.



# Dimensions: inches (mm)



Const. Ref. 3

