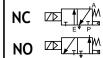


## Air Piloted • Spring Return • Shutdown System Zero Minimum Solenoid Valves

Brass or Stainless Steel Bodies Air and Inert Gas • 1/4" to 1/2" NPT



#### **Features**

- Brass body construction for general atmospheres; Stainless Steel for corrosive atmospheres.
- Can be internally piloted, or externally piloted to convert valve to zero minimum operation by flipping a gasket.
- When externally piloted, loss of electrical power or auxiliary air exhausts air from the actuator and shifts process valve to its original position.
- When internally piloted, loss of electric power returns the valve to its original position.
- Also available with Low Power or Intrinsically Safe solenoids. See Special Service Valve Section.

# Construction

Valve Parts in Contact with Fluids									
Body	Brass	316 Stainless Steel							
End Plate	304 Stainless Steel 316 Stainless Ste								
Seals and Discs	Low Temp Buna NBR	FKM (Suffix V)							
Core Tube	305 Stainless Steel								
Core Guide	CA								
Shading Coil	Copper Silver								

#### **Electrical**

	Wa		ng and P umption		Spare Coil Part No.								
Standard Coil and Class of	20		AC VA	VA	General Purpose		Explosionproof (EF)		Explosionproof (EV)				
nsulation	DC Watts	Watts	Holding	Inrush	AC	DC	AC	DC	AC	DC			
F	11.6	10.1	25	50	238610	238710	238614	238714	274614	274714			

Standard Voltages: 24, 120, 240, 480 volts AC, 60 Hz (or 110, 220 volts, AC, 50 Hz). 6, 12, 24, 120, 240 volts DC. Must be specified when ordering. Other voltages are available when required.

#### Solenoid Enclosures

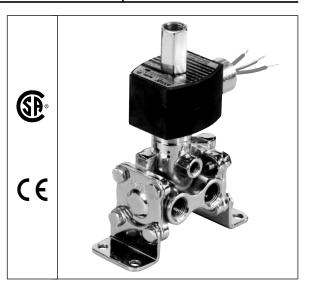
**Brass Body Valves:** 

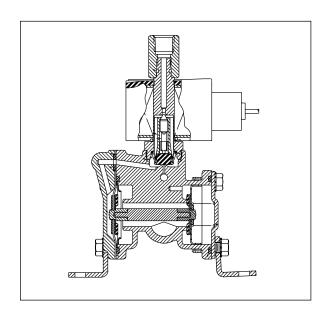
**Standard:** Watertight, Types 1, 2, 3, 3S, 4, and 4X. **Optional:** Explosionproof and Watertight, Types 3, 3S, 4, 4X, 6, 6P, 7, and 9.

(Add prefix "EF" to catalog number.)

Stainless Steel Valves:

Standard: Explosionproof and Watertight, Types 3, 3S, 4, 4X, 6, 6P, 7, and 9. See Optional Features Section for other available options.





## Nominal Ambient Temperature Ranges:

Standard Construction: AC: -4°F to 125°F (-20°C to 52°C)

DC: -4°F to 104°F (-20°C to 40°C)

-40°F on certain models (consult factory)

Suffix V Construction: AC: 32°F to 125°F (0°C to 52°C)

DC: 32°F to 104°F (0°C to 40°C)

### Approvals:

Valves with prefix "EF" or "EV"; UL approved and CSA certified solenoid. Meets applicable CE directives.

#### Installation:

All valves may be mounted in any position. 316 Stainless Steel mounting brackets available from ASCO. Add suffix "MB".



## **Specifications** (English units)

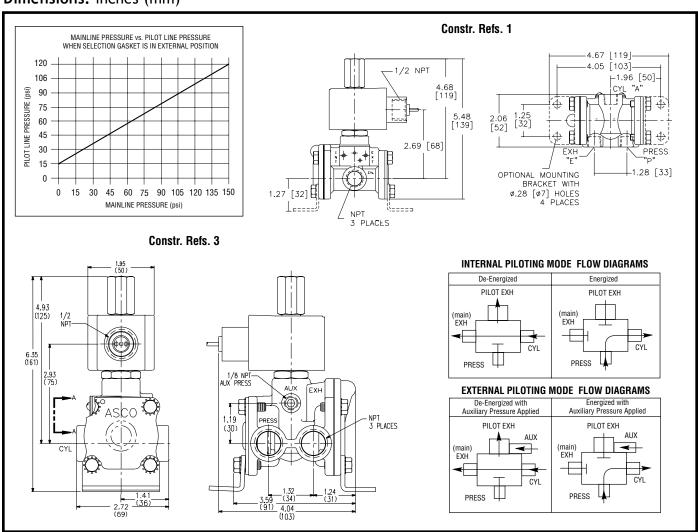
Pipe Size	Orifice Size				r Press. si)	Ca	talog Number	Constr.	Max. Fluid Temp.°F		Watt Rating/ Class of Coil Insulation			
(ins.)		Cv Flow Factor	Min.	AC	DC	Brass	Stainless Steel	Ref. No.	AC	DC	AC	DC		
NORMALLY CL	NORMALLY CLOSED (Closed when de-energized) ①													
1/4	5/16	1.5	2	150	120	8316G1	EV8316G81V	1	180	120	10.1/F	11.6/F		
3/8	5/16	1.8	2	150	120	8316G2	EV8316G82V	1	180	120	10.1/F	11.6/F		
3/8	5/8	4	2	150	120	8316G3	-	3	180	120	10.1/F	11.6/F		
1/2	5/8	4	2	150	120	8316G4	EV8316G84V	3	180	120	10.1/F	11.6/F		

IMPORTANT: Internal mode Minimum Operating Pressure Differential must be maintained between the pressure and exhaust ports. Supply and exhaust piping must be full area and unrestricted. ASCO flow controls and similar components must be installed in the cylinder lines only.

## **Specifications** (Metric units)

Pipe Size	Orifice Kv Flow Size Factor			Max. Air		Ca	talog Number	Constr.		Fluid 1p.°C	Class	Rating/ of Coil ation	
(ins.)	(mm)	(m3/h)	Min.	AC DC		Brass	Stainless Steel	Ref. No.	AC	DC	AC	DC	
NORMALLY	NORMALLY CLOSED (Closed when de-energized)*												
1/4	8	1.29	2	10	8	8316G1	EV8316G81V	1	81.4	48.4	10.1/F	11.6/F	
3/8	8	1.54	2	10	8	8316G2	EV8316G82V	1	81.4	48.4	10.1/F	11.6/F	
3/8	16	3.43	2	10	8	8316G3	-	3	81.4	48.4	10.1/F	11.6/F	
1/2	16	3.43	2	10	8	8316G4	EV8316G84V	3	81.4	48.4	10.1/F	11.6/F	

#### **Dimensions:** inches (mm)



Notes: ① Consult factory for Normally Open and other forms of flow.
② Zero minimum when valve selection gasket is in external position and proper auxiliary air pressure is applied. See graph below for pilot line pressure vs. mainline pressure. Minimum 15 psi (1 bar) operating pressure differential when selection gasket is in the internal position.