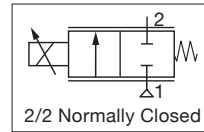


# ASCO™ MINIATURE SOLENOID VALVES

## FLAPPER PROPORTIONAL FLUID ISOLATION VALVES

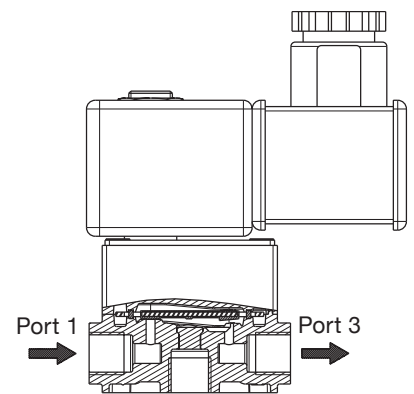
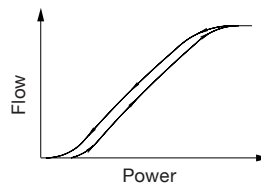
- Flapper proportional valves are designed to proportionally control the flow of neutral and aggressive liquids and gases by varying the electrical input signal to the coil
- Special Flapper mechanism results in no pumping or sticking effects
- Reduced heat transfer between control mechanism and fluid make them ideal for use with heat-sensitive reagents and biological samples
- Hysteresis (< 20%), excellent repeatability (< 5%), and high sensitivity (< 1%) make these valves ideal for high precision flow control of liquids
- Excellent self-draining capability and easy-to-flush internal cavity
- Valves do not require a minimum operating pressure
- Meets all relevant CE directives, and is RoHS compliant
- Typical Applications include:
  - Chromatography
  - DNA Sequencing
  - In-vitro Diagnostics
  - Industrial Liquid Analyzers



Fluids*	Temperature Range	Seal Materials*
Liquids or Gases <sup>1</sup>	5 °C to 50 °C (41 °F to 122 °F)	FKM/FFKM/EPDM

<sup>1</sup> Filtration: 50µm  
\* Ensure that the compatibility of the materials in contact with the fluids is verified

General Valve Information	
Body	PEEK
Others	Stainless Steel
Response Time	< 20ms
Internal Volume	0.48ml
Max. Viscosity	20 cSt (mm <sup>2</sup> /s)



Electrical Characteristics	
Coil Insulation Class	F
Connector	Lead Wires 24 AWG; L = 500mm (19.685in)
Electrical Safety	IEC 335
Electrical Enclosure Protection	IP65 (EN 60529)
Standard Voltages	12 VDC, 24 VDC (-5%/+10%)
Voltage Regulation	0-12 VDC, 0-24 VDC Pulse-width Modulation (> 1000Hz)
Flow Regulation Characteristics	Hysteresis typ. 20%; Repeatability typ. 5%; Sensitivity typ.1%

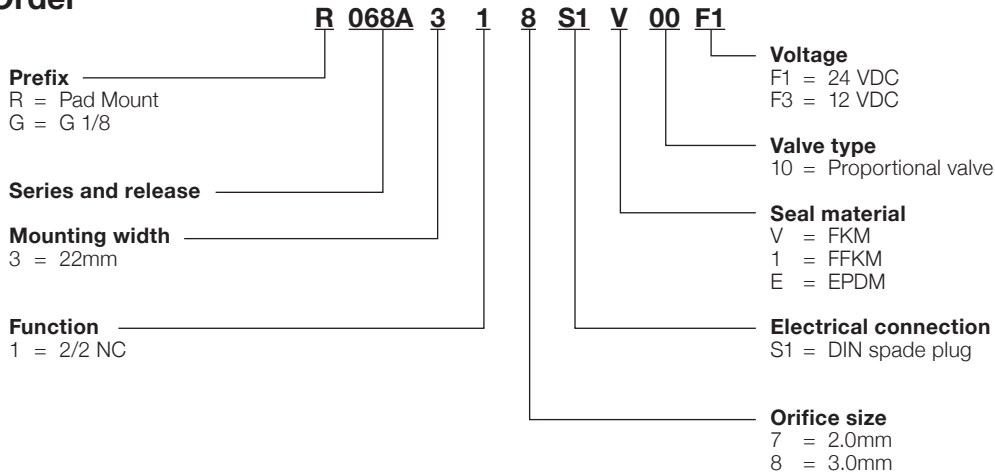
Voltage	Max. Operating Current	Power Ratings			Ambient Temperature Range	
		Inrush	Holding	Hot/Cold		
V	mA	VA	VA	W	W	°C (°F)
12	0	-	-	-	9	5 to 50 (41 to 122)
	750				9	
24	0	-	-	-	9	
	375				9	

Specifications							
Connection	Orifice Size	Flow Coefficient		Operating Pressure, bar (psi)		Power Rating (W)	Catalog Number
		mm (inches)	Kv (m3/h)	Cv	min.		
G1/8	2 (0.079)	0.069	0.080	0	4.5 (65)	9	G068A317xxx10xx
	3 (0.118)	0.123	0.142	0	2.0 (29)	9	G068A318xxx10xx
Pad Mounting <sup>1</sup>	2 (0.079)	0.069	0.080	0	4.5 (65)	9	R068A317xxx10xx
	3 (0.118)	0.123	0.142	0	2.0 (29)	9	R068A318xxx10xx

<sup>1</sup> 4 hexagon socket screws M3 x 8mm (0.315), stainless steel, ISO 4762 (supplied)

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**How to Order**

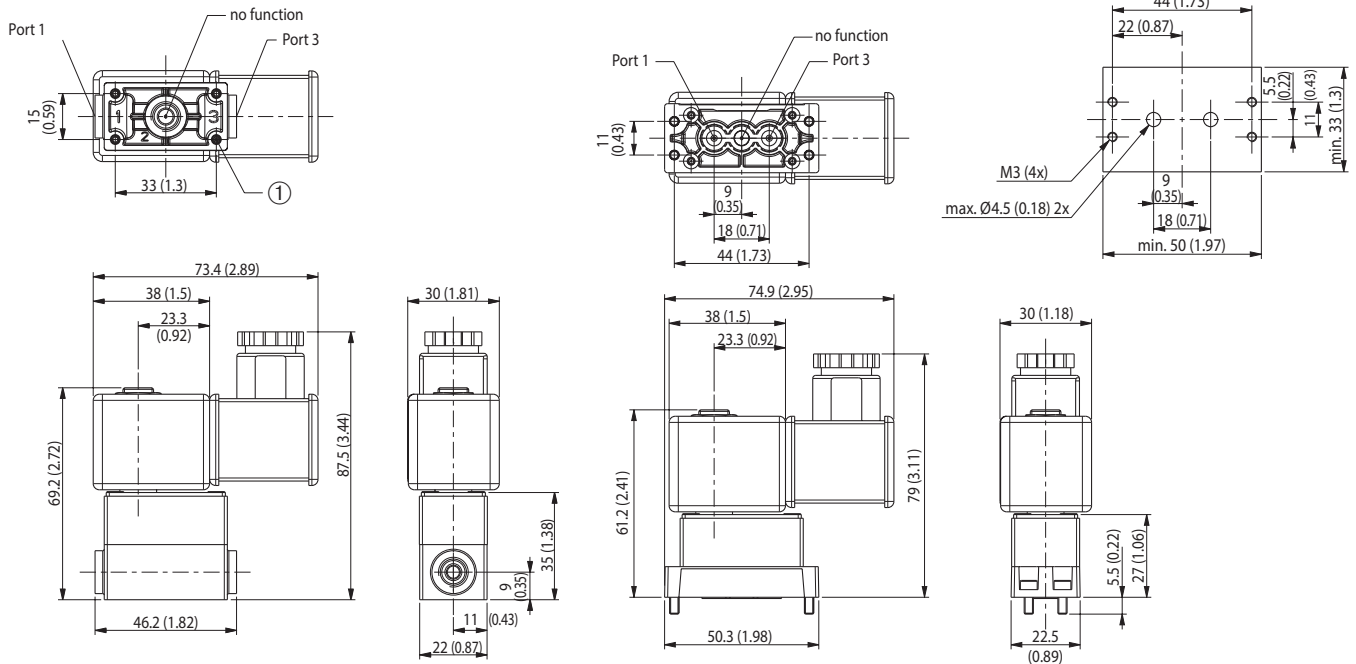


**Dimensions: mm (inches)**

**G 1/8**

**Pad-mounting Body**

**Subbase Mounting Pattern**



① 4 mounting holes, max. depth 7mm (0.276in), for self-tapping screw (type EJOT PT, K30)

**Options**

- Digital control module Control<sup>D</sup> for DIN EN 50022 rail mounting
  - Used as a current regulator in open loop applications
  - Used with an external sensor for closed-loop applications
- Other voltages and leaded coil on request
- Subbases available on request

**Installation**

- The solenoid valves can be mounted in any position without affecting operation
- Pad-mounting solenoid valve supplied with seal
- Pipe connections 1/8 have standard thread according to ISO 228/1

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