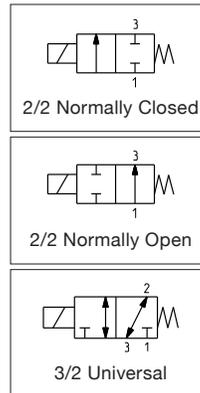


- Flapper isolation valves are designed for use with neutral or highly aggressive liquids in analytical and medical systems
- Special Flapper mechanism results in no pumping or sticking effects
- Reduced heat transfer between control mechanism and fluid make them ideal for use with heat-sensitive reagents and biological samples
- Hermetic separation of control mechanism prevents particulate contamination caused by friction of moving parts, assuring maximum purity of liquid samples
- Excellent self-draining capability and easy-to-flush low-volume internal cavity make these valves ideal in application where cross-contamination must be minimized
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
  - In-vitro Diagnostics
  - Hematology
  - DNA Sequencing
  - Industrial Liquid Analyzers



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

<sup>1</sup> Filtration: 50µm

\* Ensure that the compatibility of the fluids in contact with the materials is verified

General Valve Information	
Body	PEEK
Seals	FFKM (FKM/EPDM)
Diaphragm	FFKM (FKM/EPDM)
Others	Stainless Steel
Response Time	< 10ms
Internal Volume	0.48ml
Max. Viscosity	20 cSt (mm <sup>2</sup> /s)

Electrical Characteristics	
Coil Insulation Class	F
Connector	Spade plug (Ø6 to 8mm) or Lead Wires <sup>1</sup>
Connector Specification	DIN 43650, 11mm (0.43in), industry standard B
Electrical Safety	IEC 335 (lead wires: EN 60730)
Electrical Enclosure Protection	Molded IP65 (EN 60529)
Standard Voltages*	12 VDC, 24 VDC (-5%/+10%)

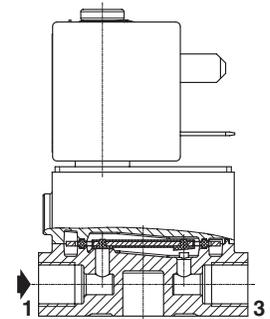
\* Other voltages on request

<sup>1</sup> 0.45m (17.7in) lead wires

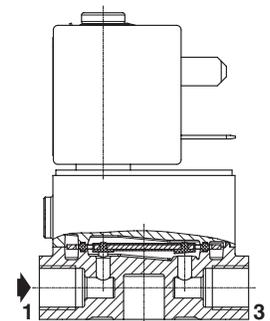
Prefix Option	Power Ratings			Ambient Temperature Ranges	Replacement Coil		Type <sup>1</sup>
	Inrush	Holding	Hot/Cold		12 VDC	24 VDC	
	VA	VA	W		W	W	
S1	-	-	9.6	10 to 50 (50 to 122)	400129-005	-	01
			10		-	400129-007	
L0	-	-	10	10 to 50 (50 to 122)	400119-011D	400119-008D	02

<sup>1</sup> Refer to the drawings on following pages

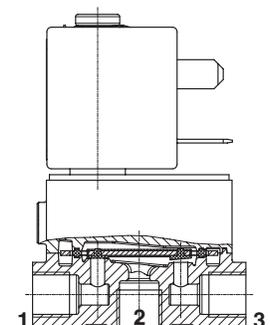
**Functional Principle**



Function 2/2 NC



Function 2/2 NO

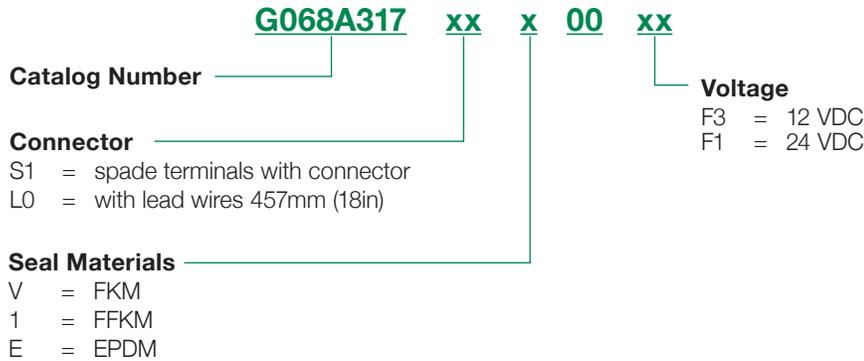


Function 3/2 U

Specifications							
Connection	Orifice Size	Flow Coefficient		Pressure Differential bar (psi)		Power Coil	Catalog Number
				min.	max. gases or liquids		Body PEEK
	mm (inches)	Kv (m3/h)	Cv			W	
<b>2/2 NC - Normally Closed</b>							
G1/8	2 (0.079)	0.10	0.12	-0.9 (-13)	5 (72.5)	10	G068B317xxx00xx
	3 (0.118)	0.16	0.18	-0.9 (-13)	3 (43)	10	G068A318xxx00xx
	4 (0.157)	0.30	0.35	-0.9 (-13)	1.5 (22)	10	G068A319xxx00xx
Pad Mounting <sup>1</sup>	2 (0.079)	0.10	0.12	-0.9 (-13)	5 (72.5)	10	R068B317xxx00xx
	3 (0.118)	0.16	0.18	-0.9 (-13)	3 (43)	10	R068A318xxx00xx
	4 (0.157)	0.30	0.35	-0.9 (-13)	1.5 (22)	10	R068A319xxx00xx
<b>2/2 NO - Normally Open</b>							
G1/8	2 (0.079)	0.10	0.12	-0.9 (-13)	5 (72.5)	10	G068A327xxx00xx
	3 (0.118)	0.16	0.18	-0.9 (-13)	2 (29)	10	G068A328xxx00xx
	4 (0.157)	0.30	0.35	-0.9 (-13)	1 (14.5)	10	G068A329xxx00xx
Pad Mounting <sup>1</sup>	2 (0.079)	0.10	0.12	-0.9 (-13)	5 (72.5)	10	R068A327xxx00xx
	3 (0.118)	0.16	0.18	-0.9 (-13)	2 (29)	10	R068A328xxx00xx
	4 (0.157)	0.30	0.35	-0.9 (-13)	1 (14.5)	10	R068A329xxx00xx
<b>3/2 U-Universal</b>							
G1/8	2 (0.079)	0.10	0.12	-0.9 (-13)	5 (72.5)	10	G068A337xxx00xx
	3 (0.118)	0.16	0.18	-0.9 (-13)	2 (29)	10	G068A338xxx00xx
	4 (0.157)	0.30	0.35	-0.9 (-13)	1 (14.5)	10	G068A339xxx00xx
Pad Mounting <sup>1</sup>	2 (0.079)	0.10	0.12	-0.9 (-13)	5 (72.5)	10	R068A337xxx00xx
	3 (0.118)	0.16	0.18	-0.9 (-13)	2 (29)	10	R068A338xxx00xx
	4 (0.157)	0.30	0.35	-0.9 (-13)	1 (14.5)	10	R068A339xxx00xx

<sup>1</sup> 4 hexagon socket head cap mounting screws M3 x 8mm (0.31in), stainless steel, ISO 4762 supplied

## How to Order



Ordering Example: **R068A317S1E00F1** = 2-way NC (normally closed), orifice size 2mm (0.079in), pad-mounting body width 22mm (0.867in), spade terminals with connector, EPDM seals, 24 VDC

## Options

- Subbases available on request
- Power-save connector (2.5 W after 140ms of operation), 24 VDC version: 88100934, 12 VDC version: 833-150063
- Impulse manual operator

## Installation

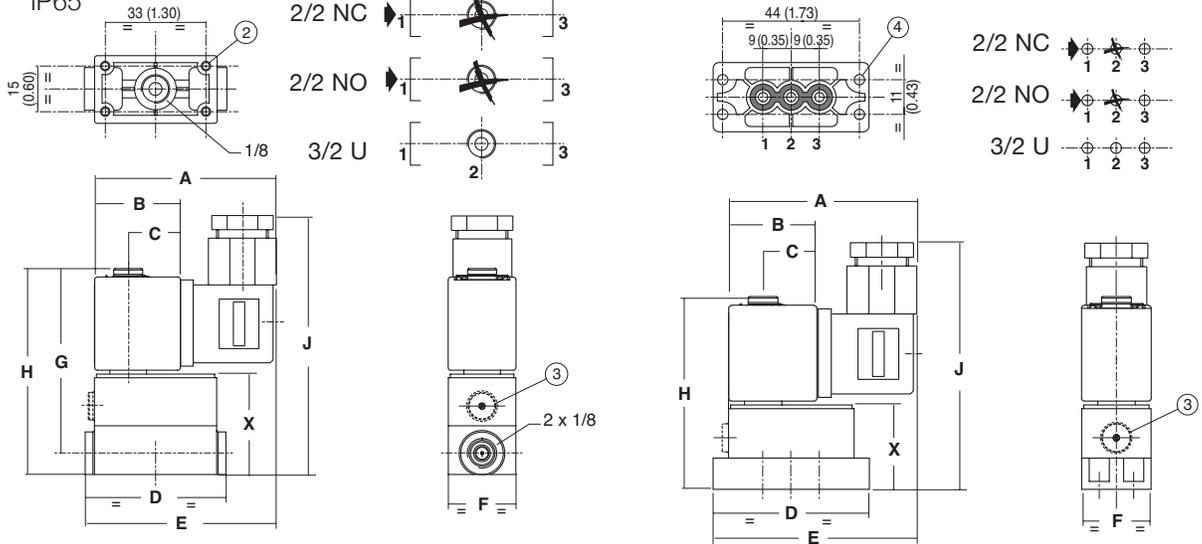
- The solenoid valves can be mounted in any position without affecting operation
- Pad-mounting solenoid valve supplied with seal
- Pipe connections 1/8 have standard thread according to ISO 228/1

**Dimensions: mm (inches)**

**Dimensional Drawings**

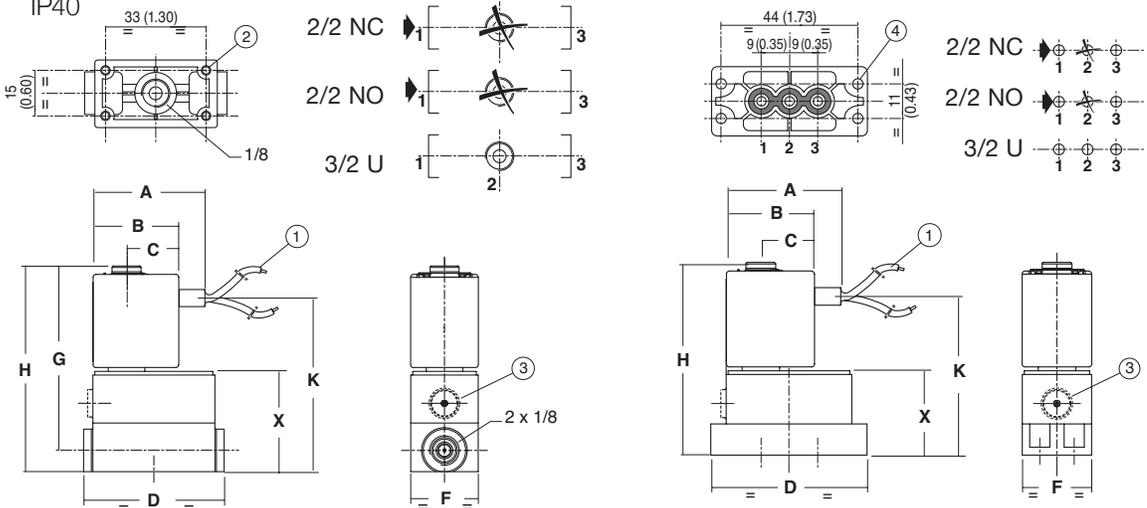
**Type 01**

Solenoid with spade plug connector (S1)  
Epoxy molded  
IEC 335/DIN 43650  
IP65



**Type 02**

Solenoid with lead wires (L0)  
IEC 335, lead wires:  
0.45m (17.7in) long  
IP40



Type	Prefix Option	Catalog Number	A	B	C	D	E	F	G	H	J	K	X	weight kg <sup>1</sup>
01	S1	G068A...S1..	60 (2.36)	28.5 (1.12)	17.5 (0.69)	46.2 (1.82)	62.5 (2.46)	22.3 (0.88)	60.8 (2.40)	67.8 (2.67)	82 (3.23)	-	33 (1.30)	0.130
		R068A...S1..	60 (2.36)	28.5 (1.12)	17.5 (0.69)	50 (1.97)	65 (2.56)	22.3 (0.88)	-	61.8 (2.43)	76 (3.00)	-	27 (1.06)	0.124
02	L0	G068A...L0..	35 (1.38)	28.5 (1.12)	17.5 (0.69)	46.2 (1.82)	-	22.3 (0.88)	60.8 (2.40)	67.8 (2.67)	-	56.5 (2.22)	33 (1.30)	0.124
		R068A...L0..	35 (1.38)	28.5 (1.12)	17.5 (0.69)	50 (1.97)	-	22.3 (0.88)	-	61.8 (2.43)	-	50.5 (1.99)	27 (1.06)	0.120

- ① 2 wires, length 0.45m (17.7in)
- ② 4 mounting holes, max. depth 7mm (0.27in), for self-tapping screw (type EJOT PT, K30)
- ③ Manual operator location
- ④ 4 mounting holes Ø3.2mm (0.126in) (4 hexagon socket head cap mounting screws M3 x 8mm (0.315in), stainless steel, ISO 4762 supplied)

<sup>1</sup> Type 01: includes coil(s) and connector(s); Type 02: with 0.45m (17.7in) lead wires

