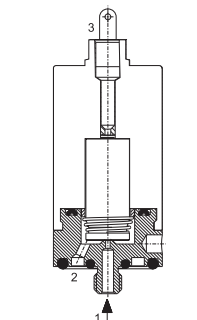
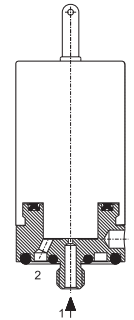
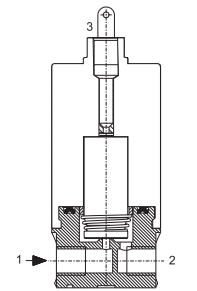
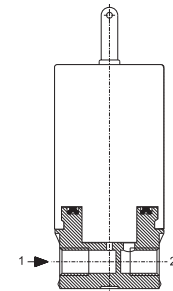
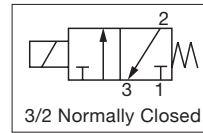
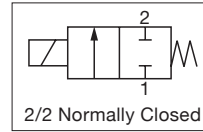


# ASCO™ MINIATURE SOLENOID VALVES

## GENERAL SERVICE VALVES

- The S Series solenoid valves are designed for use with air and inert gases
- Compact light-weight architecture and low power consumption make them ideal for portable medical devices
- Larger orifice sizes and vacuum capability make these valves extremely versatile across multiple disciplines
- Available in a variety of different porting configurations for manifold and in-line mounting
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
  - Respiratory Therapy
  - Anesthesia Delivery
  - Dental
  - Industrial Gas Analyzers



Fluids*	Temperature Range	Seal Materials*
Air or Inert Gases <sup>1</sup>	-23 °C to 66 °C (-10 °F to 150 °F)	FKM (fluoroelastomer), (EPDM on request)

<sup>1</sup> Filtered at 10µm

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

General Valve Information	
Body	Stainless steel
Others	Stainless steel
Response Time	< 10ms
Vacuum Rating	-1 bar (-14.5 psi)

Electrical Characteristics	
Standard Voltages	12 VDC, 24 VDC
Power Consumption	0.65, 2.0 W

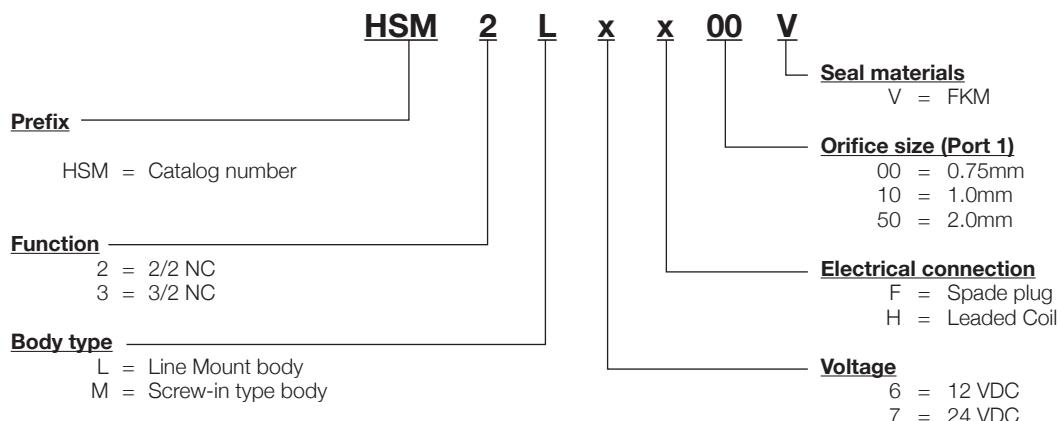
Insulation Class	Coil Insulation	Protection	Power Ratings				Ambient Temperature Range	Electrical Connection	Type <sup>1</sup>
	°C (°F)		Inrush	Holding	Hot/Cold				
B	-	IP40 (EN 60529)	VA	VA	W	W	-23 to 66 (-10 to 150)	Spade plug or lead wires 20 AWG, length 300mm (11.8in)	01

<sup>1</sup> Refer to the dimensional drawings on the following page

Specifications											
Connection	Orifice Size		Flow Coefficient		Operating Pressure, bar (psi)			Power Rating		Catalog Number	
	mm (inches)		Kv (m³/h)	Cv	min.	max.					
						air and gases		W	Line Mount Body	Screw-in Type Body	
2/2 NC - Normally Closed											
M5	0.75 (0.03)		0.025	0.016	-0.9 (-13)	-	7 (102)	-	1.5	HSM2Lxx00V	HSM2Mxx00V
	1 (0.04)		0.041	0.027	-0.9 (-13)	-	7 (102)	-	1.5	HSM2Lxx10V	HSM2Mxx10V
	2 (0.08)		0.085	0.057	-0.9 (-13)	-	3.5 (51)	-	1.5	HSM2Lxx50V	HSM2Mxx50V
3/2 NC - Normally Closed											
	Port 1	Port 2									
M5	0.75 (0.03)	1 (0.04)	0.025	0.016	-0.9 (-13)	-	7 (102)	-	1.5	HSM3Lxx00V	HSM3Mxx00V
	1 (0.04)	1 (0.04)	0.041	0.027	-0.9 (-13)	-	7 (102)	-	1.5	HSM3Lxx10V	HSM3Mxx10V
	2 (0.08)	1 (0.04)	0.085	0.057	-0.9 (-13)	-	3.5 (51)	-	1.5	HSM3Lxx50V	HSM3Mxx50V

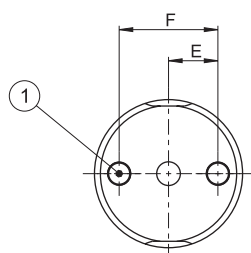
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## How to Order

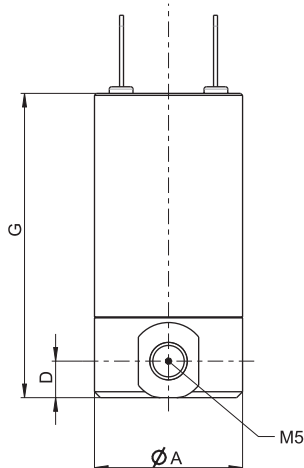


## Dimensions: mm (inches)

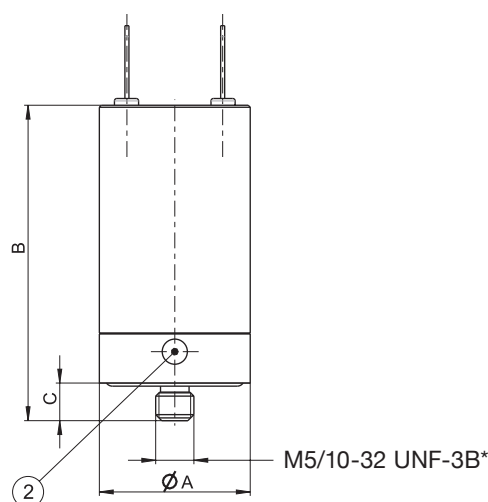
### HSM2Lxx00V/HSM2Lxx10V/HSM2Lxx50V HSM2Mxx00V/HSM2Mxx10V/HSM2Mxx50V



- ① 2 mounting holes  
ØM3x0.5
- ② Mounting with hook  
spanner wrench DIN 1810B

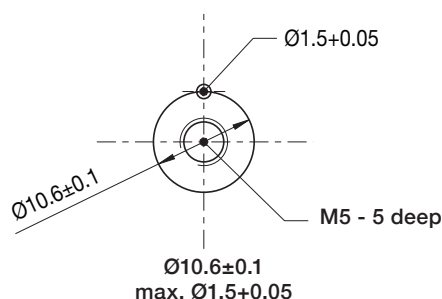


- ① 2 mounting holes ØM3x0.5
- ② Mounting with hook spanner wrench DIN 1810B



\* Supplied with 10-32 UNF-3B male thread compatible with M5 female counter-thread

### Screw-in Mounting Pattern



Connection Type	Catalog Number	A	B	C	D	E	F	G
Line Mount body	HSM2Lxx00V/HSM2Lxx10V/HSM2Lxx50V	19.05 (0.75)	-	-	4.7 (0.18)	6.35 (0.25)	12.7 (0.50)	39.11 (1.54)
Screw-in type body	HSM2Mxx00V/HSM2Mxx10V/HSM2Mxx50V	19.05 (0.75)	39.62 (1.56)	4.8 (0.19)	-	-	-	-

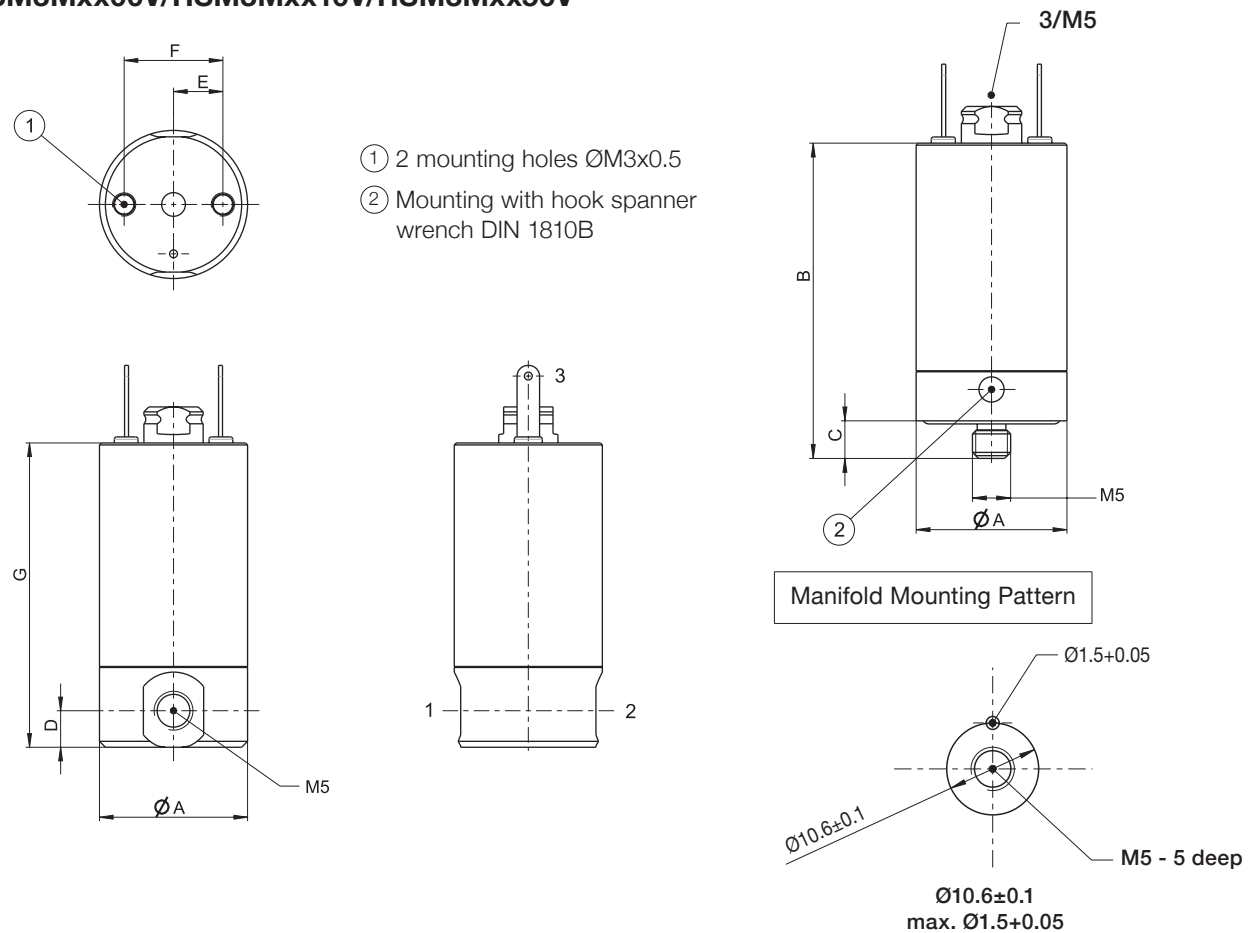
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# ASCO™ MINIATURE SOLENOID VALVES

## GENERAL SERVICE VALVES

**Dimensions: mm (inches)**

**HSM3Lxx00V/HSM3Lxx10V/HSM3Lxx50V**  
**HSM3Mxx00V/HSM3Mxx10V/HSM3Mxx50V**



Connection Type	Catalog Number	A	B	C	D	E	F	G
Line Mount body	HSM3Lxx00V/HSM3Lxx10V/HSM3Lxx50V	19.05 (0.75)	-	-	4.7 (0.18)	6.35 (0.25)	12.7 (0.50)	39.11 (1.54)
Screw-in type body	HSM3Mxx00V/HSM3Mxx10V/HSM3Mxx50V	19.05 (0.75)	39.62 (1.56)	4.8 (0.19)	-	-	-	-

### Options

- EPDM seals available on request
- Oxygen service
- Other pipe connections available on request (10-32 UNF-3B)

### Installation

- The solenoid valves can be mounted in any position without affecting operation
- Line Mount solenoid valves have 2 mounting holes in body

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