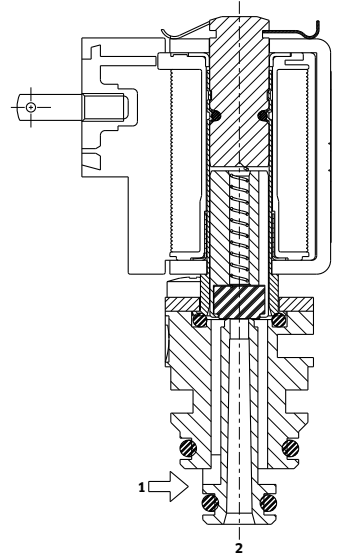
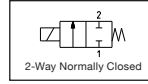


ASCO™ MINIATURE SOLENOID VALVES

2-WAY NORMALLY CLOSED - CARTRIDGE

- The Series 226 direct acting solenoid valve can be used with both liquids and gases
- Low power versions (0.5W), and latching coil versions (power consumption close to zero) results in a decrease in OEM instrument power consumption as well as a decrease in heat transferred to the fluid media
- Small form-factor saves space in OEM instruments and are well-suited for portable and hand-held field devices
- Multiple electrical connection options and a rotatable coil create greater flexibility in OEM instrument design and serviceability
- Various connections are available so that the valve can easily be integrated into virtually any fluidic path
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
 - Dental Equipment
 - Gas Chromatography
 - Industrial Analyzers
 - Respiratory Devices

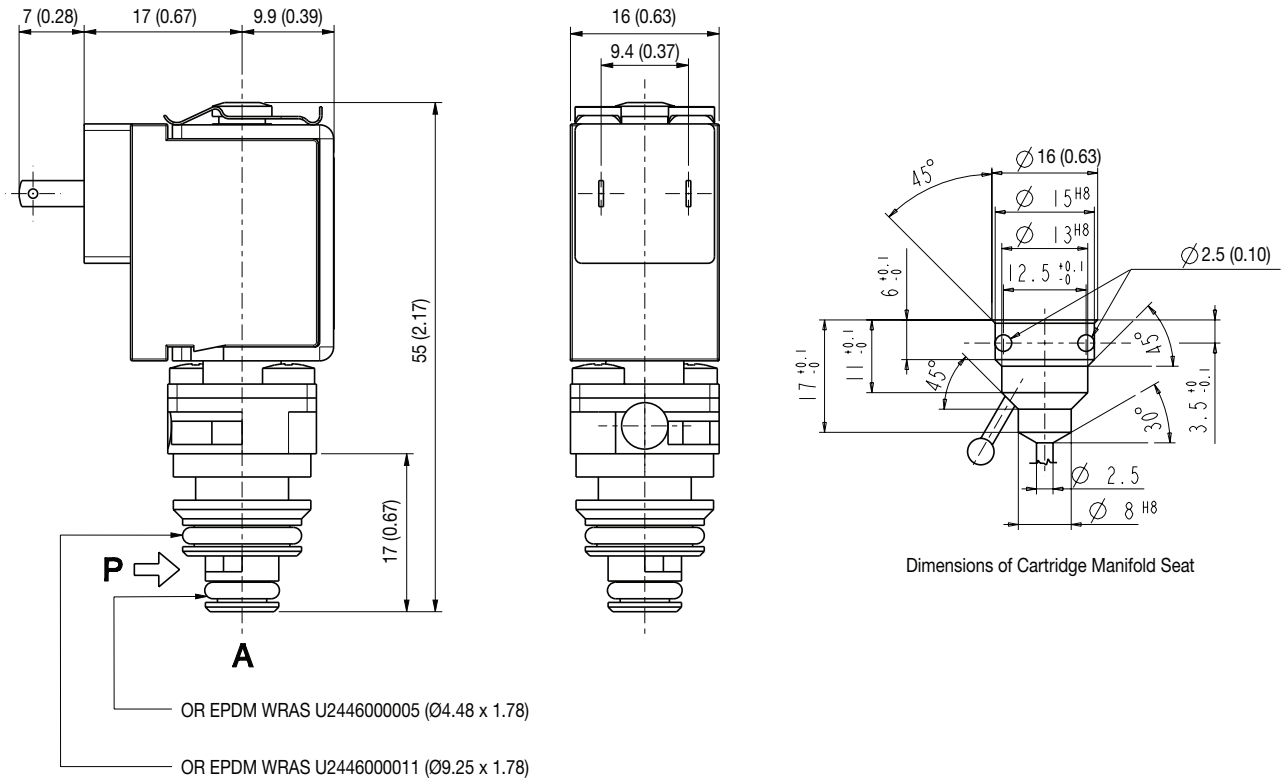


General Valve Information	
Body	POM
Sealing	EPDM
Internal components	Stainless steel
Seat	POM
Core tube	Stainless steel
Maximum allowable pressure	6 bar (87 psi)
Response Time	<10ms
Fluid temperature	-10°C to 100°C (14°F to 212°F)
Max viscosity	22 cStokes or mm ² /s

Electrical Characteristics	
Continuous duty	ED 100%
Encapsulation material	PA (Polyamide) fiberglass reinforced
Ambient temperature	-10°C to 60°C (14°F to 140°F)
Electrical Safety	DIN 46340
Electrical Enclosure Protection	IP 65 (EN 60529) with micro plug connector
Standard Voltages	12 VDC, 24 VDC (-5%/+10%)

Specifications																	
Connection	Orifice Size mm (inches)	Differential Pressure bar (psi)						Flow Coefficient		Power Coil			Seals	Catalog Number		Voltage	
		Δp Min	Δp Max				Kv (m ³ /h)	Cv	AC (VA)		DC (W)	Valve		12V DC	24V DC		
			Gases		Liquids				Inrush	Holding							
			AC	DC	AC	DC											
-	2 (0.079)	0	-	6 (87)	-	6 (87)	0.10	0.12	-	-	4	EPDM	P226A550S0A00	F3	F1		

Dimensions: mm (inches)



Installation

Solenoid valve can be mounted in any position; vertical with coil upwards preferred.

NOTE:

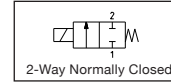
These micro-solenoid valves are not suitable for stagnating media subject to vaporization which deposit solid, calcareous, incrusting residues or similar.

Sealings: EPDM = WRAS approved ethylene-propylene elastomer

ASCO™ MINIATURE SOLENOID VALVES

2-WAY NORMALLY CLOSED - PROPORTIONAL INLINE

- Series 226 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
- Optional manual set-screw version available to optimize flow rate / electrical signal
- Reduced heat transfer between control mechanism and fluid make them ideal for use with heat-sensitive reagents and biological samples
- Small form-factor saves space in OEM instruments and are well-suited for portable and hand-held field devices
- Multiple electrical connection options and a rotatable coil create greater flexibility in OEM instrument design and serviceability
- Various connections are available so that the valve can easily be integrated into virtually any fluidic path
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
 - Dental Equipment
 - Gas Chromatography
 - Industrial Analyzers
 - Respiratory Devices



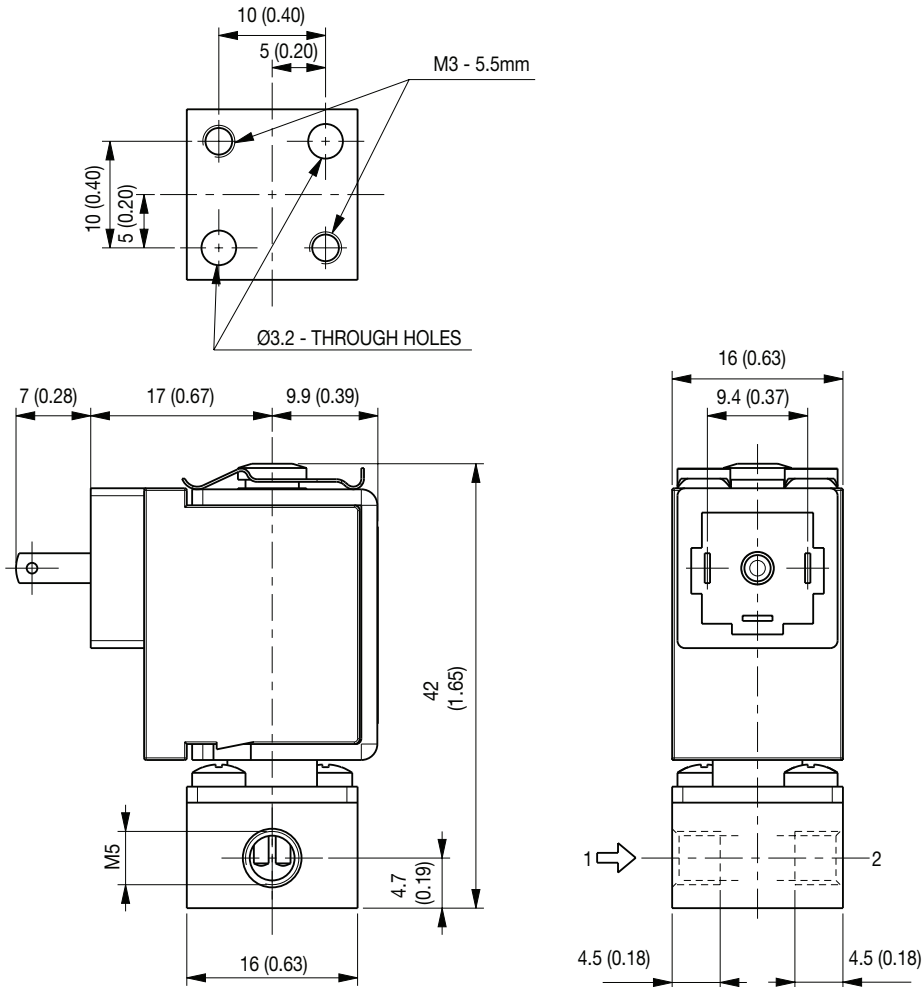
General Valve Information	
Body	Brass
Sealing	NBR
Internal components	Stainless steel
Seat	Brass
Core tube	Stainless steel
Maximum allowable pressure (PS)	5 bar (72.5 psi)
Fluid temperature	-10°C +90°C (14°F to 194°F)
Max viscosity	22 cStokes or mm ² /s

Electrical Characteristics	
Continuous duty	ED 100%
Encapsulation material	PA (Polyamide) fiberglass reinforced
Insulation class	F (155°C)
Ambient temperature	-10°C to 60°C (14°F to 140°F)
Electric connections	DIN 46340
Protection degree	IP 65 (EN 60529) with micro plug connector
Voltages*	12 VDC, 24 VDC (-5%/+10%)

* Other voltages on request.

Specifications												
Port size ISO-UNI 4534	Orifice Size mm (inches)	Differential Pressure bar (psi)		Flow Coefficient		Power Coil			Seals	Series and Type	Voltage	
				Kv (m ³ /h)	Cv	AC (VA)		DC (W)		Valve	12V DC	24V DC
		Min	Max			Inrush	Holding					
M5	1.6 (0.063)	0.5 (7.25)	5 (72.5)	0.04	0.05	-	-	4	NBR	H226A546S0A00	F3	-
		0.2 (2.90)	3 (43.5)							H226A546S0A00	-	F1
								2.5		H226A547S0A00	F3	-
										H226A545S0A00	-	F1

Dimensions: mm (inches)



Installation

Solenoid valve can be mounted in any position; vertical with coil upwards preferred.

NOTE:

These micro-solenoid valves are not suitable for stagnating media subject to vaporization which deposit solid, calcareous, incrusting residues or similar.

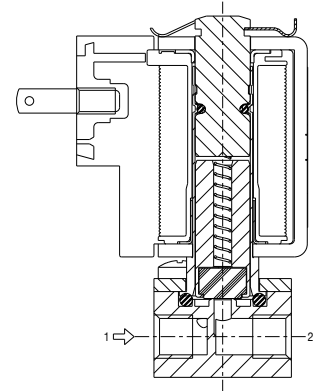
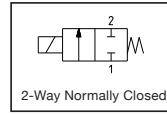
Seal: NBR = Nitrile butylene elastomer. Other options available on request

It is necessary to keep the current circulating in the coil constant, so as to maintain the solenoid valve in any pre-determined position. In case the solenoid valve is energised by voltage variation, it has to be considered that the resistance of winding increases because of the continued energizing and consequently the power decreases. Therefore, it is necessary to compensate such power decrease by increasing the voltage to re-establish the initial current value.

ASCO™ MINIATURE SOLENOID VALVES

2-WAY NORMALLY CLOSED - HIGH PRESSURE

- The Series 226 direct acting solenoid valve can be used with both liquids and gases
- Low power versions (0.5W), and latching coil versions (power consumption close to zero) results in a decrease in OEM instrument power consumption as well as a decrease in heat transferred to the fluid media
- Small form-factor saves space in OEM instruments and are well-suited for portable and hand-held field devices
- Multiple electrical connection options offer greater flexibility in OEM instrument design and serviceability
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
 - Dental Equipment
 - Gas Chromatography
 - Industrial Analyzers
 - Respiratory Devices



General Valve Information	
Body	Brass
Sealing	FKM or FFKM or HNBR
Internal components	Stainless Steel
Maximum allowable pressure (PS)	16 bar (232 psi)
Response Time	<10ms
Fluid temperature	0°C to 130°C (32°F to 266°F) (FKM) 0°C to 140°C (32°F to 284°F) (FFKM) -10°C to 90°C (14°F to 194°F) (HNBR)
Max viscosity	22 cStokes or mm ² /s
Guide assembly	Stainless Steel

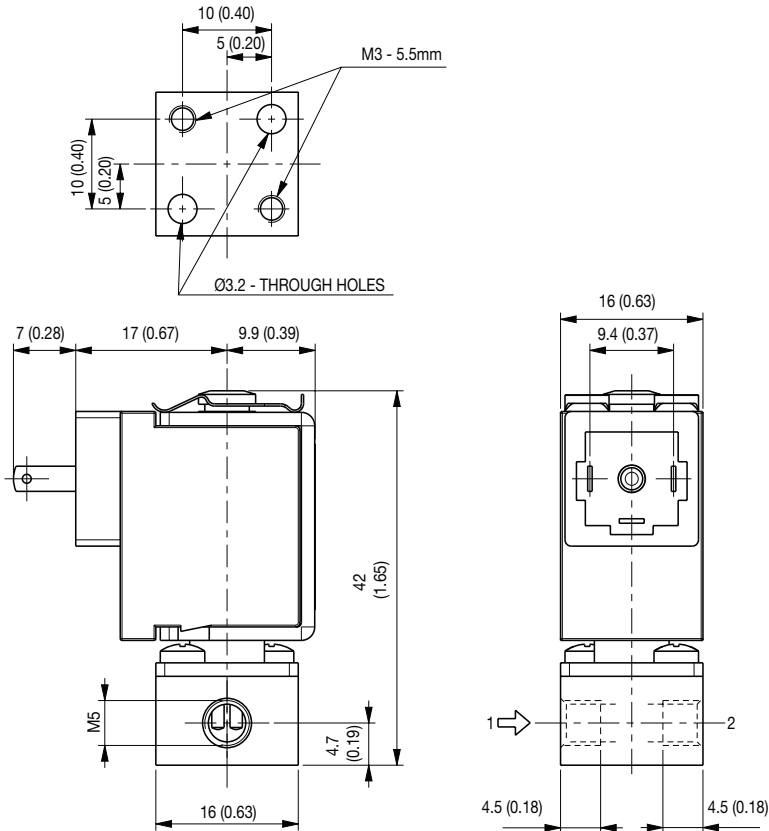
Electrical Characteristics	
Continuous duty	ED 100%
Encapsulation material	PA (Polyamide) fiberglass reinforced
Coil insulation class	F (155°C)
Ambient temperature	-10°C to 60°C (14°F to 140°F)
Electric connections	DIN 46340
Electrical Enclosure Protection	IP65 (EN 60529) with micro plug connector
Standard Voltages	DC: 12 VDC, 24 VDC (+10% - 5%)

NOTE:

These micro-solenoid valves are not suitable for stagnating media subject to vaporization which deposit solid, calcareous, incrusting residues or similar.
 Seal: FKM = Fluoro-carbon elastomer FFKM = Perfluorate elastomer HNBR = Hydrogenated nitrile-butylene elastomer

Specifications															
Connection	Orifice Size mm (inches)	Differential Pressure bar (psi)				Kv (m ³ /h)	Cv	Power Coil			Sealings	Catalog Number	Voltage		
		Δp Min	Δp Max					AC (VA)		DC (W)			12V DC	24V DC	
			Gases		Liquids			Inrush	Holding						
			AC	DC	AC										DC
M5	1.1 (0.043)	0	-	-	-	0.04	0.05	-	-	0.5	FKM	H226A540S0A00	F3	-	
												H226A542S0A00	-	F1	
												H226A541S0A00	F3	F1	
	H226A543S0A00											F3	F1		
	H226A564S0A00											-	F1		
	H226A549S0A00											-	F1		
2 (0.079)	-	0.10	0.12	-	-	0.10	0.12	-	-	2.5	FKM	H226A549S0A00	-	F1	
												H226A551S0A00	F3	F1	
												H226A552S0X00	-	F1	

Dimensions: mm (inches)



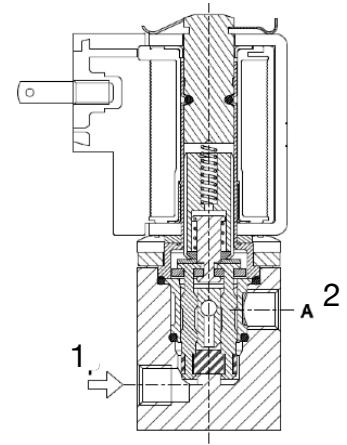
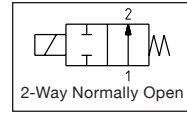
Mounting

Solenoid valve can be mounted in any position; vertical with coil upwards preferred.

ASCO™ MINIATURE SOLENOID

2-WAY NORMALLY OPEN

- The Series 226 direct acting solenoid valve can be used with both liquids and gases
- Low power versions (0.5W), and latching coil versions (power consumption close to zero) results in a decrease in OEM instrument power consumption as well as a decrease in heat transferred to the fluid media
- Small form-factor saves space in OEM instruments and are well-suited for portable and hand-held field devices
- Multiple electrical connection options offer greater flexibility in OEM instrument design and serviceability
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
 - Dental Equipment
 - Gas Chromatography
 - Industrial Analyzers
 - Respiratory Devices



General Valve Information	
Body	Brass
Sealing	NBR
Internal components	Brass, PEI (Polyetherimide) and stainless steel
Seat	PEI
Core tube	Brass
Maximum allowable pressure (PS)	10 bar (145 psi)
Response Time	<10ms
Fluid temperature	-10°C +90°C (14°F to 194°F)
Max viscosity	22 cStokes or mm ² /s

Electrical Characteristics	
Continuous duty	ED 100%
Encapsulation material	PA (Polyamide) fiberglass reinforced
Coil insulation class	F (155°C)
Ambient temperature	-10°C to 60°C (14°F to 140°F)
Electric connections	DIN 46340
Electrical Enclosure Protection	IP 65 (EN 60529) with micro plug connector
Voltages DC	12 VDC, 24 VDC (-5%/+10%)

Specifications																
Port size ISO-UNI 4534	Orifice Size mm (inches)	Differential Pressure bar (psi)						Flow Coefficient		Power Coil			Seals	Catalog Number	Voltage	
		Δp min	Δp max				Kv (m ³ /h)	Cv	AC (VA)		DC (W)	Valve			12V DC	24V DC
			Gases		Liquids				Inrush	Holding						
			AC	DC	AC	DC										
M5	1 (0.039)	0	-	10 (145)	-	10 (145)	0.04	0.05	-	-	4	NBR	H226A554S0A00	F3	-	
	2 (0.079)		-	3.5 (51)	-	3.5 (51)							H226A555S0A00	F3	-	

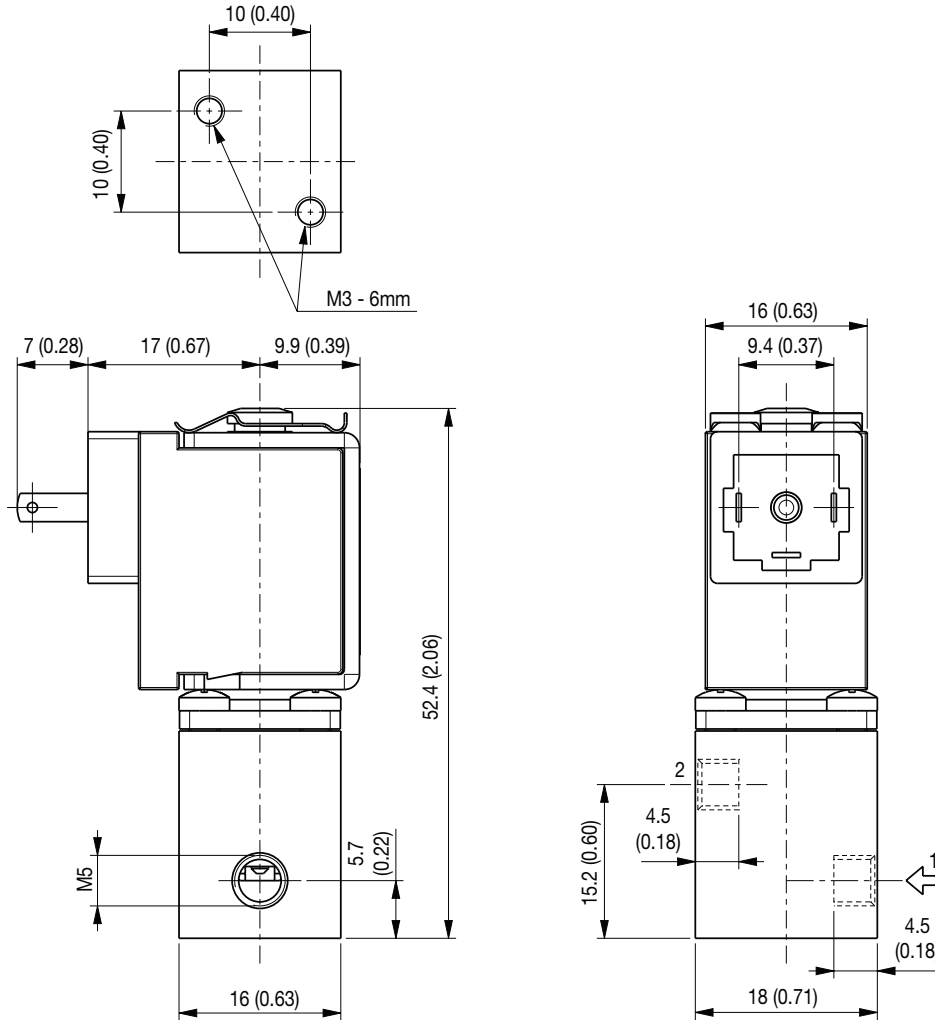
NOTE:

These micro-solenoid valves are not suitable for stagnating media subject to vaporization which deposit solid, calcareous, incrusting residues or similar.

Seal: NBR = Nitrile Butadiene Rubber

1 - For reference, F1 = 24 VDC; F3 = 12 VDC

Dimensions: mm (inches)



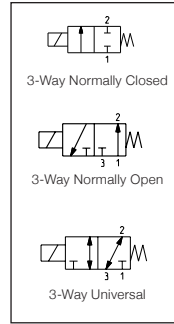
Mounting

- Solenoid valve can be mounted in any position; vertical with coil upwards preferred.

ASCO™ MINIATURE SOLENOID VALVES

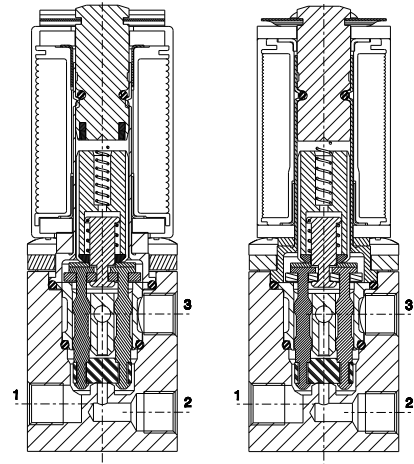
3-WAY UNIVERSAL

- The Series 226 3-way direct acting solenoid valve can be used with both liquids and gases
- Low power consumption, as well as latching coil versions, results in a decrease in OEM instrument power consumption as well as a decrease in heat transferred to the fluid media
- Small form-factor saves space in OEM instruments and are well-suited for portable and hand-held field devices
- Multiple electrical connection options offer greater flexibility in OEM instrument design and serviceability
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
 - Dental Equipment
 - Gas Chromatography
 - Industrial Analyzers
 - Respiratory Devices



General Valve Information	
Body	Brass
Sealing	NBR or FKM
Internal components	Brass, PEI (Polyetherimide) and stainless steel
Seat	1 ↔ 2: Brass - 1 ↔ 3: PEI
Core tube	Brass
Maximum allowable pressure (PS)	8 bar (116 psi)
Response Time	<10ms
Fluid temperature	-10°C to 90°C (14°F to 194°F) (NBR) 0°C to 90°C (32°F to 194°F) (FKM)
Max viscosity	22 cStokes or mm ² /s

Electrical Characteristics	
Continuous duty	ED 100%
Encapsulation material	PA (Polyamide) fiberglass reinforced
Insulation class	F (155°C)
Ambient temperature	-10°C to 60°C (14°F to 140°F)
Electric connection	DIN 46340 – micro plug connector
Electrical Enclosure Protection	IP 65 (EN 60529) with micro plug connector
Standard Voltages	DC: 12 VDC, 24 VDC (+10% - 5%)



NOTE:

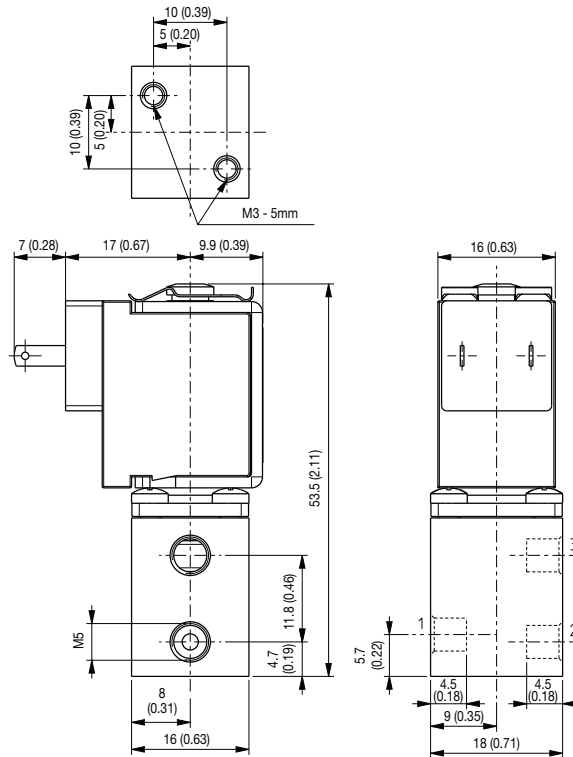
These micro-solenoid valves are not suitable for stagnating media subject to vaporization which deposit solid, calcareous, incrusting residues or similar.

Sealings: NBR = Nitrile Butadiene Rubber FKM = Fluoro-carbon elastomer.

1 - For reference, F1 = 24 VDC; F3 = 12 VDC

Specifications														
Port size ISO UNI 4534	Orifice Size mm (inches)	Δp Min	Differential Pressure bar (psi)				Kv (m ³ /h)	Power Coil			Sealings	Catalog Number	Voltage	
			Δp Max					AC (VA)		DC (W)			12V DC	24V DC
			Gases		Liquids			Inrush	Holding					
			AC	DC	AC	DC								
M5	1.2 (0.047)	0	-	6 (87)	-	6 (87)	0.04	-	-	2.5	NBR	H226A556S0A00	F3	F1
			-	8 (116)	-	8 (116)		4	H226A557S0A00	F3		F1		
			-	6 (87)	-	6 (87)		2.5	H226A559S0A00	-		F1		
			-	8 (116)	-	8 (116)		4	H226A560S0A00	-		F1		
			-	6 (87)	-	6 (87)		4	H226A566S0A00	-		F1		
			-	6 (87)	-	6 (87)			FKM	H226A562S0A00		-	F1	
			-	2.5 (36)	-	2.5 (36)			NBR	H226A558S0A00		-	F1	
	-		1.5 (22)	-	1.5 (22)	H226A567S0A00				F3	-			
	-		1.5 (22)	-	1.5 (22)	FKM				H226A563S0A00	F3	-		

Dimensions: mm (inches)



Installation

Solenoid valve can be mounted in any position; vertical with coil upwards preferred.

NOTE:

It is necessary to keep the current circulating in the coil constant, so as to maintain the solenoid valve in any pre-determined position. In case the solenoid valve is energised by voltage variation, it has to be considered that the resistance of winding increases because of the continued energizing and consequently the power decreases. Therefore, it is necessary to compensate such power decrease by increasing the voltage to re-establish the initial current value.