

Market-leading fluid control solutions addressing the world's most critical needs





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Emerson – your Partner in **Analytical and Medical Technology**



Emerson fluid control solutions help customers maximize instrument efficiencies and optimize their Medical & Analytical applications. Our global scale increases speed to market and shapes how we work with customers. Our deep expertise across applications rapidly transforms ideas into measurable outcomes.

We offer miniature Isolation, Pinch, Proportional, and General Service valves to reliably control gases and liquids. To adhere to the quality and reliability standards necessary for today's applications, all valves are 100% factory tested before being shipped to our valued customers.

Our miniature valves can be found throughout the world in applications such as:

- Bioinstrumentation
- Chromatography
- Clinical Diagnostics
- Dental Equipment
- Hemodialysis
- Industrial Analyzers

- Oxygen Therapy
- Patient Monitoring
- Sterilizers
- Surgical Instruments
- Therapy Equipment
- Ventilators

In addition to our comprehensive catalog product offering, we have the expertise to create customized assemblies that provide the precise solution to meet your fluid control needs. Whether you need a minor modification of a catalog product or a complete flow control solution, our trained sales and engineering teams are ready to assist.



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ISO Class 8 equivalent Cleanroom Manufacturing

Emerson takes great care to minimize contamination during manufacturing. That's why Emerson's miniature valves are assembled in ISO Class 8 equivalent cleanrooms.

Key Points:

- State-of-the-art ISO Class 8 equivalent cleanrooms with positive pressure HEPA air filtration systems monitored daily
- Staff members enter and leave through airlocks with air shower stage and wear protective hair nets, finger cots, shoe covers, lab coats, and masks (when required) to reduce contamination potential
- The environment is controlled for humidity and temperature
- Valve components are ultrasonically cleaned to remove any contaminate prior to assembly

BCAE

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Global Infrastructure

With 8,000 employees worldwide supporting our Fluid Control & pneumatics product lines, working from manufacturing and sales offices in over 45 countries, Emerson is ready to handle your most demanding design challenges. Whether you need a minor modification of a catalog product or a complete flow control system, our trained sales and engineering staff are ready to assist.

Fluid Control & Pneumatics

With manufacturing facilities in Europe, America and Asia you can be assured that you will get the right product, when you need it.





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Medical Technologies



Focus on safety for patients

We specialize in developing fluid handling solutions for medical devices and processes used to monitor and/or treat diseases or medical conditions, with the intent to improve quality of life. Our design engineers have decades of experience in creating solutions that support our customers exact requirements.

The ASCO miniature valve product line is ideally suited for use in the following medical applications:

- Dental Delivery Systems
- Oxygen Therapy
- Patient Monitoring
- Therapeutic Support Surfaces
- Ventilators
- Hemodialysis
- Chemical Sterilizers
- Surgical Instruments



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Analytical Technologies

Highest precision and functionality – especially suitable for aggressive fluids

Analytical technologies involve a scientific instrument used to analyze a chemical species or a patient sample. Typically, analytical applications require resistance to aggressive fluids, a low internal volume, and an easy-to-flush internal cavity to minimize cross-contamination. Power consumption of the miniature product line is also minimized to reduce heat transfer to expensive reagents and biological fluids.

The miniature valve product line is ideally suited for use in the following analytical applications:

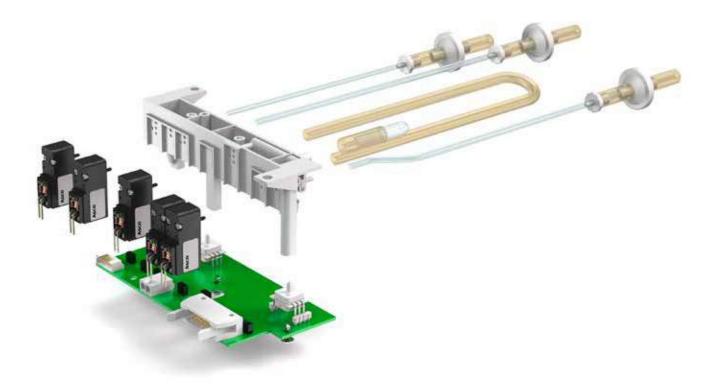
- Clinical Chemistry
- Hematology
- Sample Preparation
- DNA Sequencing

- Immunoassay
- Chromatography
- Molecular Diagnostics
- Industrial Analyzers



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Emerson's Solutions Approach: Rapid Engineered Solutions



The Analytical and Medical marketplace is driven mainly by customization of products in order to meet varying customer instrumentation demands. The ability to quickly customize a valve product, or provide a solution, is increasingly demanded by OEM engineers. Instrumentation development times are being reduced, and as a result instrument complexity is being consolidated into modular components to accelerate speed-to-market.

Rapid Engineered Solutions are focused on miniature valve products that fulfill the needs of the analytical and medical instrument markets. Backed by the group's prototype labs, valves and assemblies are designed for quick and efficient manufacturing. Our local technical support teams provide the personal support you need during your development processes.

BCAE
Industrial Automation

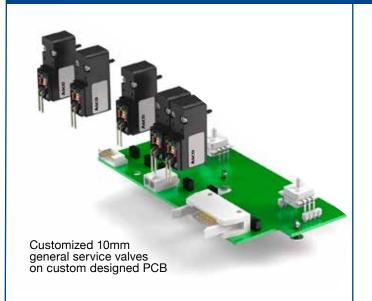
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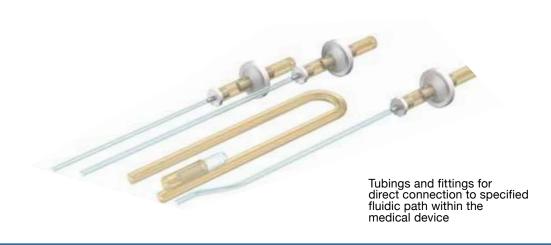
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Customized Solutions







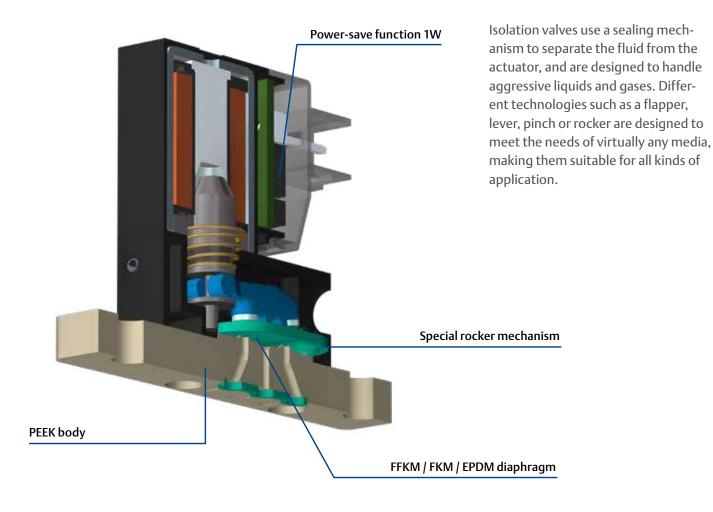
Capabilities

Our technical expertise and product customization capabilities enable fast turnaround on complex, high-performing fluidic systems. Our experts understand how to simplify your fluidic path designs, which in turn maximizes performance efficiencies and reduces your manufacturing and operating costs. From concept to production, we deliver your complete manifold assembly, including valves, electrical terminations, pins and housings – anything needed to create the right solution.

BCAE
Industrial Automation

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Fluid Isolation Valves



(12)

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Diaphragm mechanism



- Diaphragm valves are known for their compact size, long service life and very low internal volume.
- The valve bodies are made of stainless steel or synthetic material (PTFE/PVDF).

Diaphragm valves ▶ p. 25

Rocker mechanism



- · Rocker mechanism valves are designed to reduce the pumping effect seen in some low-viscous fluid applications.
- Multiple standard body configurations and connection types allow these valves to be exceptionally versatile across numerous applications.

Rocker valves ▶ pp. 31, 43, 73

... for a wide variety of analytical and medical applications

Flapper mechanism



- High pressures (up to 10 bar) are possible by the use of the special flapper mechanism and large orifice sizes.
- Holding power is lowered down to 1.5 watts, thus minimising the heat transfer into the fluid.

Flapper valves ▶ p. 35

Lever mechanism



- Lever valves can be used at high differential pressures and large flow volumes.
- Lever valves are suitable for use at high ambient temperatures since the offset control mechanism provides optimal heat dissipation in the electromagnetic component.

Lever valves ▶ p. 57

Pinch mechanism



- Characterized by their long service life, pinch valves offer exceptional versatility and reliability.
- Any risk of contamination is reliably avoided by changing the fluidic path tubing.

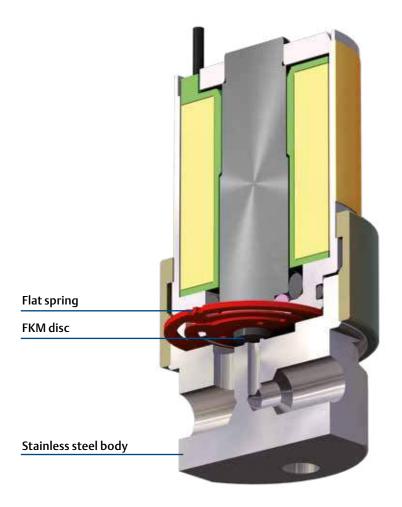
Pinch valves ▶ pp. 21, 49, 63



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General Service Valves



General service valves are used in handling inert gases in nearly any analytical or medical application, and are known for their long service life and reliability.

Their compact size and easy installation allow several valves to be mounted on a subbase or custom valve manifold.

(14)

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General service technologies ...

Miniature Solenoid Valves

- Micro solenoid valves are used mainly as pilot valves or for the handling of inert gases.
- These series are suitable for applications in almost all areas of analytical and medical technology.
- Their compact size and easy installation allow several valves to be mounted on a subbase or custom valve module.

... for a wide variety of analytical and medical applications

9 - 11 mm



Series 188 ▶ p. 99

11 - 15 mm



Series RB ▶ p. 125

15 - 22 mm



Series S ▶ p. 131



Series 096 **▶** p. 89



Series 065 ▶ p. 77



Series 411 ▶ p. 117



Series 226 ▶ p. 107

>22 mm



Series L256 ▶ p. 121

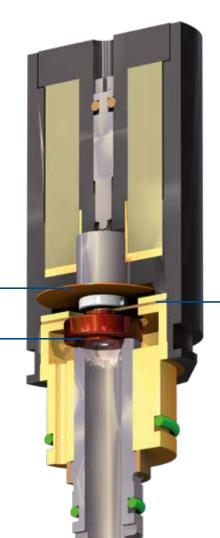


Series L123 / L257 / L323 ▶ p. 91



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Proportional Valves



Proportional valves quickly and accurately adjust output pressure in relation to an electrical control signal. They are designed for applications with quickly changing flow demands and are highly customizable.

FKM diaphragm

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Flat spring

FKM disc

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Proportional technologies ...

Preciflow





- Series 202 2/2 proportional valves can be used in any Analytical & Medical application.
- Frictionless suspension of the core reduces hysteresis and provides stepless control in the lower and upper ranges.

Series 202, Preciflow ▶ p. 137

Preciflow IPC



- Series 202 Preciflow IPC valves are Inlet Pressure Compensated flow control valves. Inlet Pressure Compensation allows high pressures and flows at low solenoid coil power consumption.
- Typical applications for these valves are in medical (e.g. respirators) and analytical apparatus (e.g. mass flow controllers).

Series 202, Preciflow IPC ▶ p. 143

... for a wide variety of analytical and medical applications

Piezotronic





- Series 630 2/2 piezo valves for flow control are a high-tech solution designed in particular for applications requiring extremely low power consumption.
- They are suitable for use in battery-operated equipment or in potentially explosive areas.

Series 630, Piezotronic ▶ p. 151

Flapper Proportional



 This series 068 valve equipped with the flapper technology, one of the safest and most reliable solutions for media separation. It is combined with the advantages of the Proportional technology to ensure optimum flexibility to control of liquid media.

Series 068, Flapper Proportional ▶ p. 135



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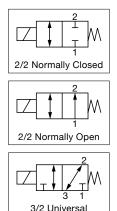
Visit our website at emerson.com Availability, design and specifications are subject to change without notice. All rights reserved.

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PINCH VALVES, COMPACT 2-WAY / 3-WAY SOLENOID

- The 045 Series are compact 2-way and 3-way solenoid pinch valves designed for use with highly aggressive or highpurity liquids in analytical and medical instrumentation, and industrial applications
- Hermetic separation of control mechanism and the fluid within the tubing prevents particulate contamination caused by friction of moving parts, assuring maximum purity of liquids
- Available in a range of body sizes to accommodate a wide variety of tubing sizes
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
 - Hemodialysis
 - Bioinstrumentation
 - Surgical Fluid Management
 - Pharmaceutical



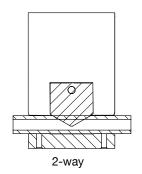


2-way

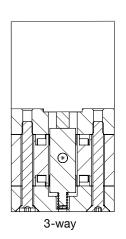
Fluids*	Temperature Range	
Air, Inert Gases, Water, Oil or Liquids	0°C to 70°C (32°F to 158°F)	

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

Materials in Contact with Fluid				
Recommended Tubing VMQ (silicone) (max. hardness: 50 Shore A)				
Other Materials				
Body	Aluminum			
Pinch Mechanism	POM, Aluminum			
Internal Parts	Stainless Steel			
Response Time	5 to 25ms			



Electrical Characteristics				
Coil Insulation Class	F			
Connector	22 AWG or 24 AWG Lead wires, 457mm (18in) long, PTFE coated			
Electrical Safety	IEC 335			
Electrical Enclosure Protection	IP64			
Standard Voltages	12 VDC, 24 VDC			
Power Consumption	1.0 to 7.2 Watts			



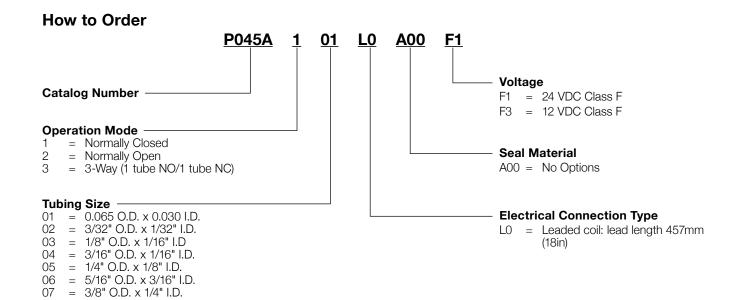
Specifications						
Tube O.D.	Tube I.D.	Operating Pressure bar (psi)		Power Rating	Tubing Size	
mm (inches)	mm (inches)	min.	max.	W		
1.65 (0.065)	0.762 (0.030)	0	2.07 (30)	1	01	
2.38 (3/32)	0.794 (1/32)	0	2.07 (30)	1.5	02	
3.17 (1/8)	1.59 (1/16)	0	2.07 (30)	1.5	03	
4.76 (3/16)	1.59 (1/16)	0	2.07 (30)	4.2	04	
6.35 (1/4)	3.17 (1/8)	0	1.38 (20)	4.2	05	
7.94 (5/16)	4.76 (3/16)	0	1.38 (20)	7.2	06	
9.52 (3/8)	6.35 (1/4)	0	1.38 (20)	7.2	07	



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PINCH VALVES, COMPACT 2-WAY / 3-WAY SOLENOID



Options

 Contact us for information regarding the usage of different tubing other than those recommended

Installation

- The solenoid valves can be mounted in any position without affecting operation, however, for optimum performance it is recommended that they be fitted with the solenoid operator at the top.
- In case the tubing is not placed in its seat, the solenoid valve could operate incorrectly.
- 305mm (12in) Flexible tubing is pre-installed with each valve.

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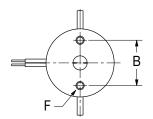
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PINCH VALVES, COMPACT 2-WAY / 3-WAY SOLENOID

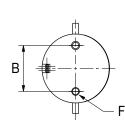
Dimensions: mm (inches)

2-Way Solenoid

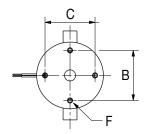
Construction Type I



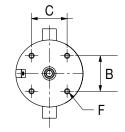
Construction Type II

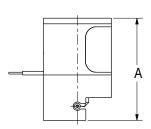


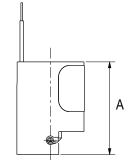


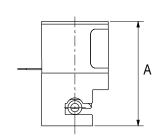


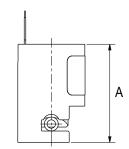
Construction Type IV

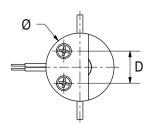


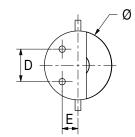


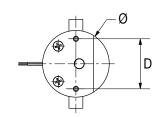




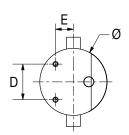








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Config- uration	Construction Type	Tubing Size	Ø	Α	В	С	D	E	F
NO	I	01	10.05 (0.750)	28.58 (1.125)	12.70 (0.500)	-	-	-	#2-56
NC	II	01	19.05 (0.750)	25.45 (1.002)	12.70 (0.500)	-	8.99 (0.354)	4.50 (0.177)	#2-30
NO	III	02 / 03	05.40 (4.000)	37.25 (1.467)	17.45 (0.687)	17.45 (0.687)	17.45 (0.687)	-	#4-40
NC	IV	02 / 03	25.40 (1.000)	37.12 (1.462)	12.34 (0.486)	12.34 (0.486)	12.34 (0.486)	6.17 (0.243)	#4-40
NO	III	04 / 05	01 75 (1 050)	50.79 (2.000)	22.45 (0.884)	22.45 (0.884)	22.45 (0.884)	-	#4-40
NC	IV	04 / 05	31.75 (1.250)	46.91 (1.847)	15.90 (0.626)	15.90 (0.626)	15.90 (0.626)	7.95 (0.313)	#4-40
NO	III	06 / 07	20 10 (1 500)	59.68 (2.350)	28.58 (1.125)	28.58 (1.125)	28.58 (1.125)	-	#4 40
NC	IV	06 / 07	38.10 (1.500)	55.80 (2.197)	20.22 (0.796)	20.22 (0.796)	20.22 (0.796)	10.11 (0.398)	#4-40

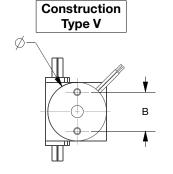
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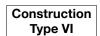
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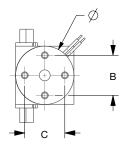
PINCH VALVES, COMPACT 2-WAY / 3-WAY SOLENOID

Dimensions: mm (inches)

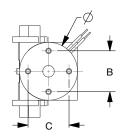
3-Way Solenoid



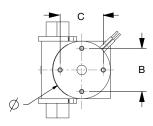


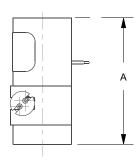


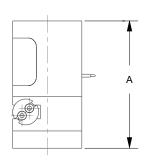
Construction Type VII

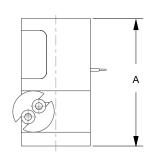


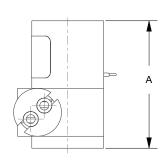
Construction Type VIII

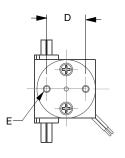


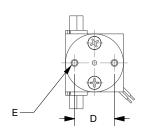


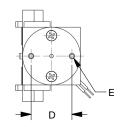


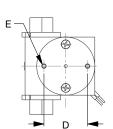












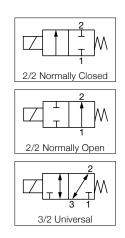
Construction Type	Tubing Size	Ø	A	В	С	D	E	
V	01	19.05 (0.750)	41.28 (1.625)	12.70 (0.500)	-	12.70 (0.500)	#2-56	
VI	02	25.40 (1.000)	46.77 (1.842)	17.45 (0.687)	17.40 (0.687)	17.45 (0.687)	#4-40	
VI	03		25.40 (1.000) 40.77 (1.042)	17.45 (0.067)	17.40 (0.067)	17.43 (0.007)	#4-40	
VII	04	31.75 (1.250)	01.75 (1.050)	50.74 (0.040)	22.45 (0.884)	00.45 (0.004)	00.45 (0.004)	#4-40
VII	05		58.74 (2.313)	22.40 (0.884)	22.45 (0.884)	22.45 (0.884)	#4-40	
VIII	06	38.1 (1.500)	67.63 (2.663)	28.58 (1.125)	28.58 (1.125)	28.58 (1.125)	#4-40	

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PTFE DIAPHRAGM FLUID ISOLATION VALVES

- PTFE isolation valves are designed for use with highly aggressive liquids
- The PTFE body and diaphragm isolates the internal solenoid components from the media
- Excellent self-draining capability and easy-to-flush lowvolume internal cavity
- Compact architecture make them ideal for analytical benchtop instrumentation
- Available in 2-Way normally closed, 2-Way normally open, and 3-Way universal; comes with #10-32, 1/4-28, or 1/8 NPSC in-line porting for exceptional versatility
- Meets all relevant CE directives
- Typical applications include:
 - Chromatography
 - Solvent Selection/Diversion
 - Sample Preparation
 - DNA Sequencing

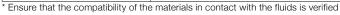




Fluids*	Temperature Range	Seal Materials*
Aggressive liquids	0°C to 70°C (32°F to 158°F)	PTFE

^{*}Ensure that the compatibility of the materials in contact with the fluids is verified

General Valve Information*			
Body	PTFE / Stainless steel		
Poppet	PTFE		
Diaphragm	PTFE		
Response Time	< 20ms		
Internal Volume	As low as 18 µl		

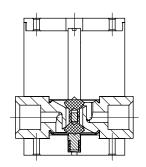


青岛秉诚自动化设备有限公司

地址:中国·青岛市重庆南路99号海尔云街甲3号楼7F

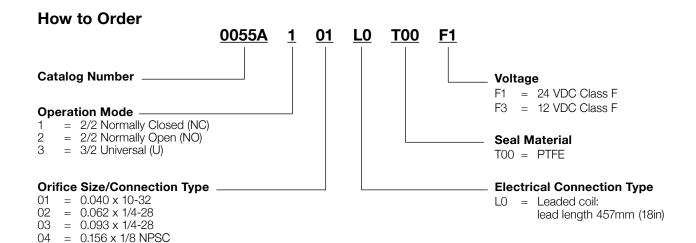
Electrical Characteristics			
Coil Insulation Class	F		
Connector	22 AWG or 24 AWG Lead wires, 457mm (18in) long, PTFE coated		
Standard Voltages	12 VDC, 24 VDC		
Power Consumption	1.0 to 7.2 Watts		

Specifications						
Commontion	Orifice Size	Flow Co	efficient	Operating bar	Power	
Connection			min		max.	Rating (W)
	mm (inches)	Kv (m³/h)	Cv	111111.	gas / liquids	(••,
#10-32	1.02 (0.040)	0.010	0.012	-0.9 (-13)	2.07 (30)	1
1/4-28	1.57 (0.062)	0.023	0.027	-0.9 (-13)	2.07 (30)	1.5
1/4-28	2.36 (0.093)	0.050	0.058	-0.9 (-13)	2.07 (30)	4.2
1/8 NPSC	3.96 (0.156)	0.186	0.215	-0.9 (-13)	2.07 (30)	7.2



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PTFE DIAPHRAGM FLUID ISOLATION VALVES



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PTFE DIAPHRAGM FLUID ISOLATION VALVES

Dimensions: mm (inches)

Type 01

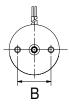
Type 02

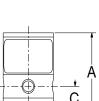
Type 03

Type 04

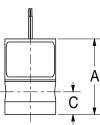
Type 05

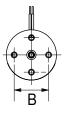
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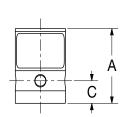




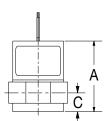


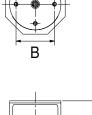


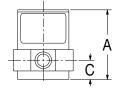


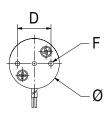


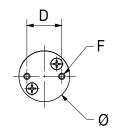


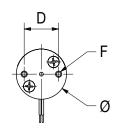


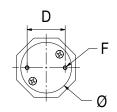


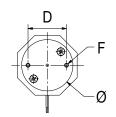












Configuration	Туре	Catalog Number	Ø	Α	В	С	D	E	F
	01	0055A101L0T00xx	19.05 (0.750)	29.34 (1.155)	12.70 (0.500)	9.220 (0.363)	12.70 (0.500)	-	#2-56
2-Way NC	02	0055A102L0T00xx	25.40 (1.000)	37.78 (1.488)	12.34 (0.486)	11.43 (0.450)	17.45 (0.687)	-	
2-vvay NC	04	0055A103L0T00xx	31.75 (1.250)	47.32 (1.863)	15.90 (0.626)	12.70 (0.500)	22.45 (0.884)	38.10 (1.500)	#4-40
	04	0055A104L0T00xx	38.10 (1.500)	53.04 (2.088)	20.22 (0.796)	14.27 (0.562)	28.58 (1.125)	44.45 (1.750)	
	01	0055A201L0T00xx	19.05 (0.750)	29.54 (1.163)	12.70 (0.500)	9.220 (0.363)	12.70 (0.500)	-	#2-56
2-Way NO	03	0055A202L0T00xx	25.40 (1.000)	37.91 (1.493)	17.45 (0.687)	11.43 (0.450)	17.45 (0.687)	-	
2-vvay NO	05	0055A203L0T00xx	31.75 (1.250)	46.06 (1.814)	22.45 (0.884)	12.70 (0.500)	22.45 (0.884)	38.10 (1.500)	#4-40
	05	0055A204L0T00xx	38.10 (1.500)	51.78 (2.039)	28.58 (1.125)	14.27 (0.562)	28.58 (1.125)	44.45 (1.750)	
	01	0055A301L0T00xx	19.05 (0.750)	29.49 (1.161)	12.70 (0.500)	9.220 (0.363)	12.70 (0.500)	-	#2-56
3-Way	03	0055A302L0T00xx	25.40 (1.000)	37.88 (1.492)	17.45 (0.687)	11.42 (0.450)	17.45 (0.687)	-	
3-vvay	05	0055A303L0T00xx	31.75 (1.250)	46.06 (1.814)	22.45 (0.884)	12.70 (0.500)	22.45 (0.884)	38.10 (1.500)	#4-40
	05	0055A304L0T00xx	38.10 (1.500)	51.75 (2.038)	28.58 (1.125)	14.27 (0.562)	28.58 (1.125)	44.45 (1.750)	

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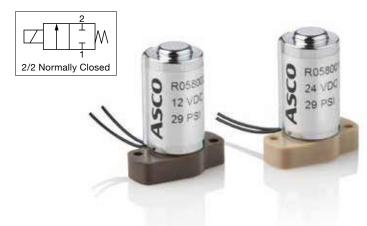


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DIAPHRAGM COMPACT 2-WAY SOLENOID ISOLATION VALVE

- Direct acting solenoid valve for use with neutral or aggressive liquids in analytical instruments
- Media separating soft-seal PTFE diaphragm, prevents any potential leakage of critical reagents within the instrument compartment
- Low power consumption results in less heat transfer to thermally sensitive reagents and samples
- Small form-factor saves space in OEM instruments and is well-suited for portable and hand-held field devices
- Typical application include:
 - Clinical Diagnostics
 - DNA Sequencing
 - Liquid Chromatography
 - Sample Preparation



Fluids*	Temperature Range	Seal Materials*	
Liquids or Gases	0°C to 40°C (32°F to 104°F)	FKM, FFKM	

^{*} Ensure that the compatibility of the materials in contact with the fluids is verified.

General Valve Information					
Body	PPS, PEEK				
Diaphragm	PTFE				
Response Time	< 10ms				
Internal Volume	29µl				
Max Viscosity	20 cSt (mm ² /s)				

Electrical Characteristics						
Coil Insulation Class	F					
Connector	Lead Wires					
Connector Specification	28 AWG PTFE coated					
Electrical Safety	IEC 335					
Electrical Enclosure Protection	IP65 (EN 60529)					
Standard Voltages*	12 VDC, 24 VDC (±5%)					

Electrical		Power	Ratings		Ambient Temperature	
Connection			sh Holding		Range	
	VA	VA	W	W	C° (F°)	
LO	-	-	-	2.8	0 to 40 (32 to 104)	

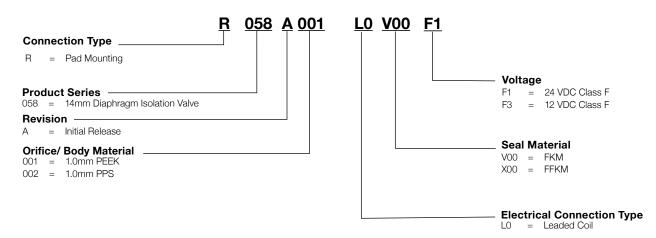
Specifications									
	Orifice Size	Flow Coefficient		Operating Pressure bar (psi)					
Connection				min.	max.	Power Rating	Catalog Number		
	mm (inches)	Kv (m ³ /h)	Cv		gas / liquids	(W)	Oatalog Humber		
2/2 NC - Norma	2/2 NC - Normally Closed								
Pad Mounting	1.00 (0.04)	0.018	0.021	-0.2 bar (-2.9 psi)	2.0 bar (29 psi)	2.8	R058A001L0XXXXX		
Pad Mounting	1.00 (0.04)	0.018	0.021	-0.2 bar (-2.9 psi)	2.0 bar (29 psi)	2.8	R058A002L0XXXXX		

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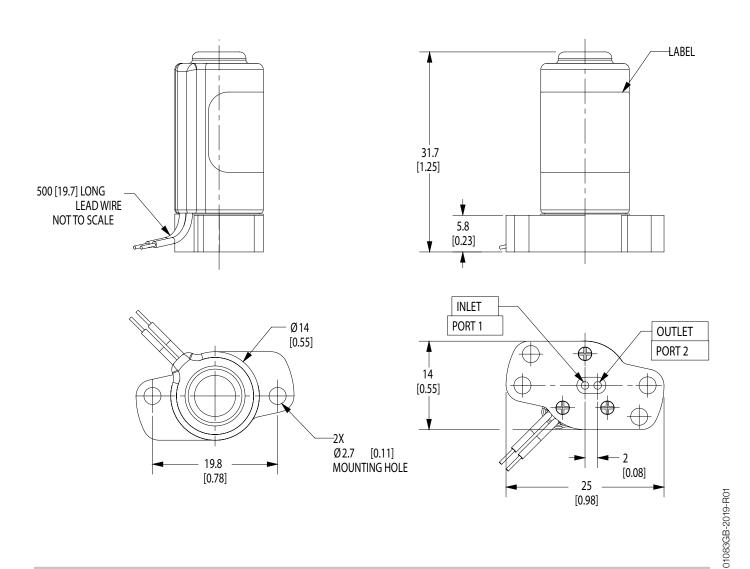


DIAPHRAGM COMPACT 2-WAY SOLENOID ISOLATION VALVE

How to Order



Dimensions: mm (inches)

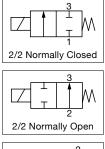


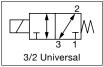
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ROCKER SOLENOID FLUID ISOLATION VALVES

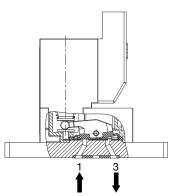
- Rocker isolation valves are designed for use with neutral or highly aggressive liquids in analytical instrumentation
- Special rocker mechanism, combined with a separating diaphragm, prevents heat transfer to the fluid and eliminates the sticking effect of the valve seat
- Hermetic separation of control 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 applications where cross-contamination must be minimized
- "Hit and Hold" feature utilizes an integrated power-save switch that reduces analytical instrument power consumption
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
 - Pipette Dispensing
 - In-vitro Diagnostics
 - DNA Sequencing
 - Surgical Fluid Management



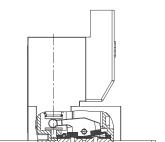




Functional Principle

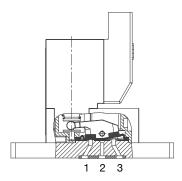


Function 2/2 NC





Function 2/2 NO



Function 3/2 U

Fluids* Temperature Range Seal Materials* Liquids or Gases 10 °C to 40 °C (50 °F to 104 °F) FKM/FFKM 5 °C to 40 °C (41 °F to 104 °F) EPDM

^{*}Ensure that the compatibility of the materials in contact with the fluids is verified.

General Valve Information					
Body	PEEK				
Others	Stainless Steel				
Response Time	< 10ms				
Internal Volume	10μΙ				
Max. Viscosity	20 cSt (mm ² /s)				

Electrical Characteristics						
Coil Insulation Class	F					
Connector	Pin Header with 2 Contacts					
Electrical Safety	EN 60335					
Electrical Enclosure Protection	IP65 (EN 60529)					
Standard Voltages*	12 VDC, 24 VDC (-5%/+10%)					

^{*} Other voltages on request

Coil Type1	Power Rating Inrush/ Holding	Ambient Temperature Range	Protection	Electrical Connection
	w	°C (°F)	VA	
Specific	2.5/1.0*	10 to 50 (50 to 122)	IP40	Connector with two 0.5mm² lead wires + built-in LED and electrical protection or lead wires, 0.5m (19.7in) long

^{*} With power-save electronics

00191GB-2019-R01

¹ The coil used for orifice size 1.35mm (0.053in) is longer by 12.5mm (0.49in) than that used for the other orifice sizes, see drawings on following pages

ROCKER SOLENOID FLUID ISOLATION VALVES

	Orifice	Flo		Operation	ng Pressure	e bar (psi)			Seal M	laterial2
	Size	Coeffi		- Cpordan	Ť	ax.	Electrical	Catalog Number	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Connection	mm (inches)	Kv (m ³ /h)	Cv	min.	gases	liquids	Connection/ Type*		FKM	EPDM
2/2 NC - Normally										
L/Z NO - Normany	Closed				T		1 1	SC S067A 021	Τ	Т
	0.0			0.0			2	SC S067A 022	1	
	0.6 (0.024)	0.006	0.007	-0.9 (-13)	3 (42.5)	3 (43.5)	3	SC S067A 023	V	E
	(0.024)			(-13)	(43.5)	(43.3)	4	SC S067A 024		
							5	L S067A 025		
							1	SC S067A 026	-	
	0.8	0.040	0.040	-0.9	2	2	2	SC S067A 027	-	_
	(0.031)	0.010	0.012	(-13)	(29.0)	(29.0)	3 4	SC S067A 028 SC S067A 029	V	E
							5	L S067A 030	-	
Long Flange1							1	SC S067A 030		
							2	SC S067A 032	1	
	1.0	0.017	0.020	-0.9	1.5	1.5	3	SC S067A 033	V	E
	(0.040)			(-13)	(21.8)	(21.8)	4	SC S067A 034		
							5	L S067A 035		
							1	SC S067A 036		
	1.35			-0.9	1.0	1.0	2	SC S067A 037		_
	(0.053)	0.026	0.030	(-13)	(14.5)	(14.5)	3	SC S067A 038	V	E
	, ,			, ,	` ′	, ,	5	SC S067A 039 L S067A 040		
2/2 NO - Normally	Open						5	L 5007A 040		
2/2 NO - Normany	Open	1			T		1 1	SC S067A 061	Τ	Τ
		0.6 0.024) 0.006	0.007	-0.9 (-13)	3 (43.5)	3 (43.5)	2	SC S067A 062	V	E
							3	SC S067A 063		
	(0.024)						4	SC S067A 064		
							5	L S067A 065		
							1	SC S067A 066	V	
	0.8	0.010	0.012	-0.9 (-13)	2 (29.0)	2 (29.0)	2	SC S067A 067		Е
	(0.031)						3 4	SC S067A 068 SC S067A 069		
							5	L S067A 070		
Long Flange1							1 1	SC S067A 071	_	
	4.0			0.0	1	4.5	2	SC S067A 072	V	E
	1.0 (0.040)	0.017	0.020	-0.9	1.5 (21.8)	1.5 (21.8)	3	SC S067A 073		
				(-13)			4	SC S067A 074		
							5	L S067A 075		
							1	SC S067A 076	4	
	1.35	0.026	0.030	-0.9	1.0	1.0	3	SC S067A 077 SC S067A 078	- V	_
	(0.053)	0.026	0.030	(-13)	(14.5)	(14.5)	4	SC S067A 078	- V	E
							5	L S067A 080		
3/2 U-Universal	1	1			<u> </u>				·	
							1	SC S067A 101		
	0.6			-0.9	3	3	2	SC S067A 102	1	E
	(0.024)	0.006	0.007	(-13)	(43.5)	(43.5)	3	SC S067A 103	V	
	(, ,			(-/	(/	(/	5	SC S067A 104 L S067A 105	-	
							1	SC S067A 105		
							2	SC S067A 100	+	
	0.8	0.010	0.012	-0.9	2	2	3	SC S067A 108	V	E
	(0.031)			(-13)	(29.0)	(29.0)	4	SC S067A 109]	
Long Flange1							5	L S067A 110		
20.191101190							1	SC S067A 111		
	1.0	0.6:=	0.000	-0.9	1.5	1.5	2	SC S067A 112	٠	_
	(0.040)	0.017	0.020	(-13)	(21.8)	(21.8)	3	SC S067A 113	V	E
	, , , ,			(-10)	(21.0)	(21.0)	5	SC S067A 114	4	
							1	L S067A 115 SC S067A 116	+	+
							2	SC S067A 117	+	
	1.35	0.026	0.030	-0.9	1.0	1.0	3	SC S067A 117	V	E
	(0.053)			(-13)	(14.5)	(14.5)	4	SC S067A 119	1 .	-
		1					5	L S067A 120	7	

^{*} Types 1 to 5 with power-save electronics, LED and electrical protection, mm (inches)

1 = width: 5.08 (0.2) 2 = width: 5.08 (0.2)

4 = width: 2.54 (0.1) 5 = Flying Leads, 0.5 (19.7) long (see drawings on following page) 3 = width: 2.54 (0.1)



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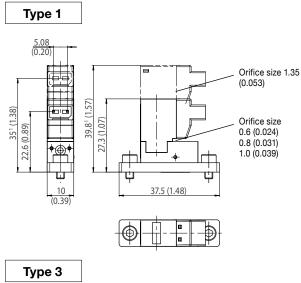
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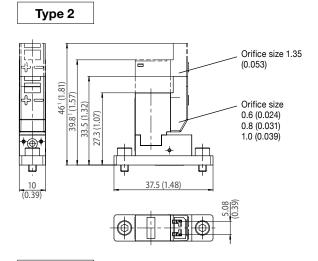
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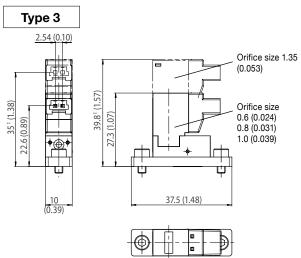
 ^{1 2} hexagon socket head cap mounting screws M3x6mm (0.24in), stainless steel, ISO4762 supplied
 2 To order FFKM seals, leave the corresponding designation in the catalog number "blank".

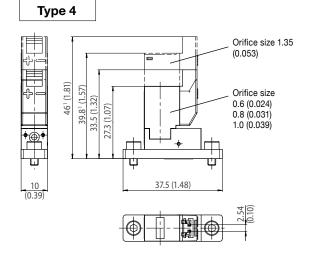
ROCKER SOLENOID FLUID ISOLATION VALVES

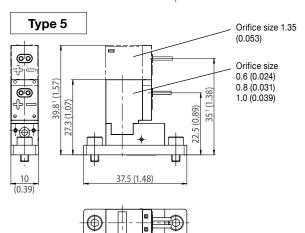
Dimensions: mm (inches)

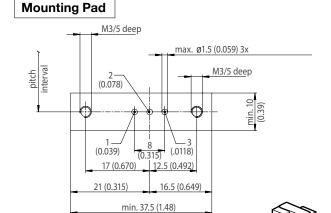












¹ The coil used for orifice size 1.35mm (0.053in) is longer by 12.5mm (0.492in) than that used for the other orifice sizes

NOTE: Connectors must be ordered separately, please specify the quantity and Catalog numbers required: Pin spacing 5.08 (0.20) 0.5m (19.7in) long Catalog number: **88118801** Pin spacing 2.54 (0.10) 0.00 1.5m (59in) long

3m (118in) long

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Catalog number: 88118802 Catalog number:

0.5m (19.7in) long

1.5m (59in) long 3m (118in) long

Catalog number: Catalog number: Catalog number:

88118806 88118807 88118808





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33

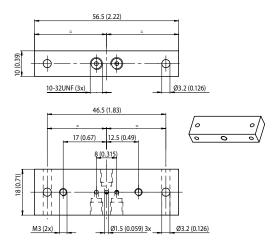
服务热线:4006-918-365 网址: http://www.asco.store

ROCKER SOLENOID FLUID ISOLATION VALVES

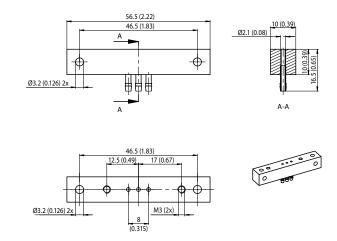
Dimensions: mm (inches)

Single Subbases PEEK

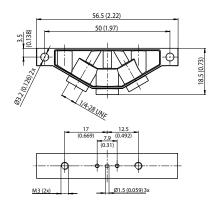
UNF thread -Catalog number 36100038



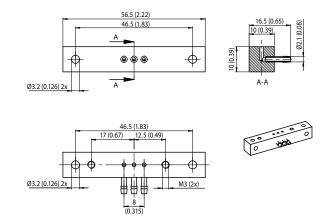
Bottom push-in hose connection - Catalog number 36100042



UNF thread -Catalog number 36100040



Side push-in hose connection - Catalog number 36100044



Options

- Subbases available on request
- Manual operator (impulse-type)

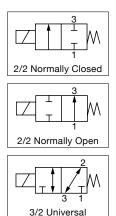
Installation

• The solenoid valves can be mounted in any position without affecting operation

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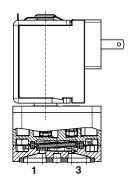
FLAPPER FLUID ISOLATION VALVES, 16mm

- 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 lowvolume 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

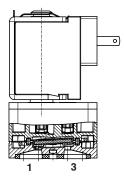




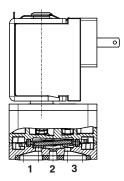
Functional Principle



Function 2/2 NC



Function 2/2 NO



Function 3/2 U

Fluids*	Temperature Range	Seal Materials*
		FFKM
Liquids or Gases ¹	5 °C to 50 °C (41 °F to 122 °F)	FKM
	(41 1 10 122 1)	EPDM

¹ 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	75µІ				
Max. Viscosity	20 cSt (mm²/s)				

Electrical Characteristics				
Coil Insulation Class	F			
Connector	Spade terminals or lead wires ²			
Connector Specification	Spade terminals: DIN 46340, lead wires: 24 AWG			
Electrical Safety	IEC 335			
Electrical Enclosure Protection	Molded IP65 spade terminals (EN 60529) Molded IP66 lead wires (EN 60529)			
Standard Voltages*	12 VDC, 24 VDC (-5%/+10%)			

Electrical	Power Ratings				Ambient Temperature	
Connection	Inrush	Holding		Hot/Cold	Range	Type1
	VA	VA	W	W	°C (°F)	
S0	-	-	-	4	5 to 50 (41 to 122)	01
LO	-	-	-	4		02

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 $^{^{\}star}$ Other voltages or coil with red LED for power supply signal on request

¹ Refer to the drawings on following pages

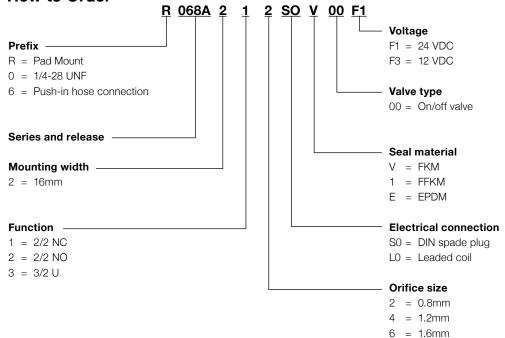
² 0.5m (19.7in) lead wires

FLAPPER FLUID ISOLATION VALVES, 16mm

Specifications						
	Orifice	Flow Coefficient		Operating Pressure bar (psi)		
Connection	Size			min.	max.	Power Rating (W)
	mm (inches)	Kv (m³/h)	Cv	min.	gases or liquids	. ,
Pad Mounting1	0.8 (0.031)	0.021	0.024	-0.9 (-13)	8 (116)	4
	1.2 (0.047)	0.036	0.042	-0.9 (-13)	4 (58)	4
	1.6 (0.063)	0.042	0.049	-0.9 (-13)	2 (29)	4
1/4-28 UNF	0.8 (0.031)	0.021	0.024	-0.9 (-13)	8 (116)	4
	1.2 (0.047)	0.036	0.042	-0.9 (-13)	4 (58)	4
	1.6 (0.063)	0.042	0.049	-0.9 (-13)	2 (29)	4
Push-in Hose Connection	0.8 (0.031)	0.021	0.024	-0.9 (-13)	8 (116)	4
	1.2 (0.047)	0.036	0.042	-0.9 (-13)	4 (58)	4
	1.6 (0.063)	0.042	0.049	-0.9 (-13)	2 (29)	4

¹² hexagon socket head cap mounting screws M2.5, stainless steel, supplied





Options

Description	Catalog Number			
Push-in-Hose Barb Kit 3/2				
Subbase Qty: 1	534662-001			
Hex nut Qty: 2				
Push-in-Hose Barb Kit 2/2 Codification				
Subbase Qty: 1	534662-002			
Hex nut Qty: 2	334002-002			
1/4-28 Threaded Kit 3/2				
Subbase Qty: 1	534661-001			
Hex nut Qty: 2	334661-001			
1/4-28 Threaded Kit 2/2				
Subbase Qty: 1	534661-002			
Hex nut Qty: 2	334001-002			

Subbases available on request

Installation

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- The solenoid valves can be mounted in any position without affecting operation
- Pad-mounting solenoid valve supplied with seal



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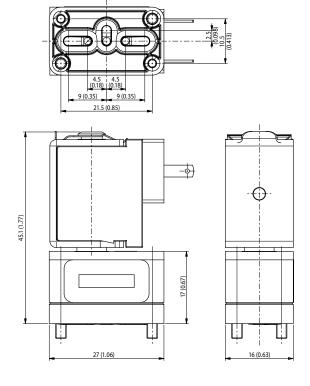
FLAPPER FLUID ISOLATION VALVES, 16mm

Dimensions: mm (inches)

Type 01

Solenoid with spade terminals (S0) DIN 46340 IP40

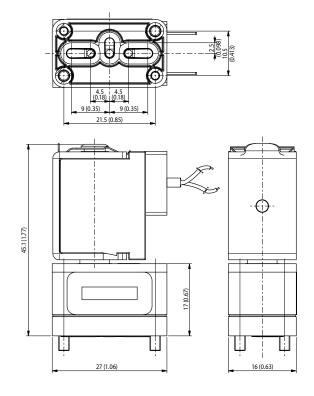




Type 02

Leaded coil (L0) 24 AWG, lead wires: 500mm (19.7in) long





网址:http://www.asco.store

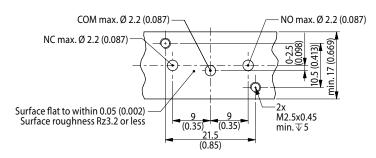
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FLAPPER FLUID ISOLATION VALVES, 16mm

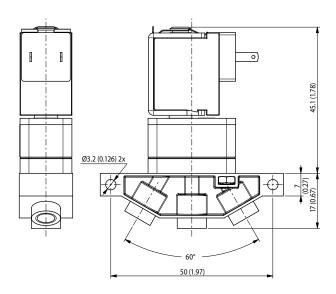
Dimensions: mm (inches)

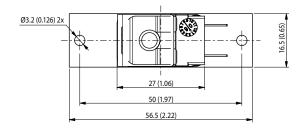
Subbase Mounting Pattern



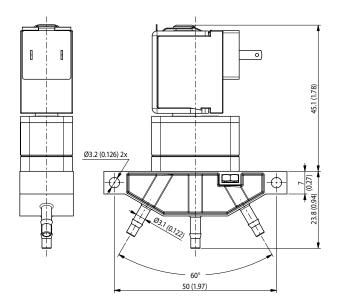


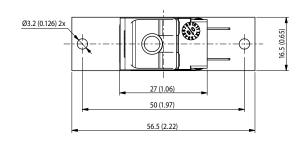
1/4 - 28 UNF Version





Version with Push-in Hose Connection

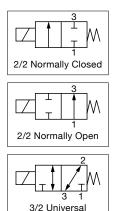




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FLAPPER SOLENOID FLUID ISOLATION VALVES, 22mm

- 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 lowvolume 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*
		FFKM
Liquids or Gases ¹	5 °C to 50 °C (41 °F to 122 °F)	FKM
·	(41 1 10 122 1)	EPDM

¹ 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	< 10ms					
Internal Volume	0.48ml					
Max. Viscosity	20 cSt (mm ² /s)					

Electrical Characteristics								
Coil Insulation Class	F							
Connector	Spade plug (Ø6 to 8mm) or Lead Wires1							
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%)							

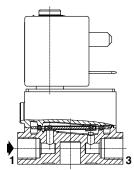
^{*} Other voltages on request

¹ 0.45m (17.7in) lead wires

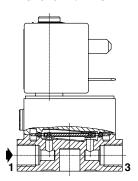
	Power Ratings				Ambient				
Prefix Option	Inrush	Inrush Holding Ho		Hot/Cold	Temperature Ranges	неріасеі	Replacement Coil		
	VA	VA	W	W	°C (°F)	12 VDC	24 VDC		
S1				9.6	5 to 50	400129-005	-	01	
51	-	-	_	10	(50 to 122)	-	400129-007	01	
LO	-	-	-	10	5 to 50 (50 to 122)	400119-011D	400119-008D	02	

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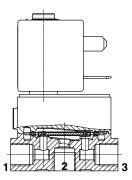
Functional Principle



Function 2/2 NC



Function 2/2 NO



Function 3/2 U



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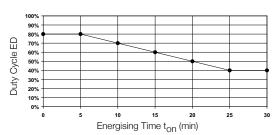
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¹ Refer to the drawings on following pages

FLAPPER SOLENOID FLUID ISOLATION VALVES, 22mm

RECOMMENDATION FOR MAXIMUM DUTY CYCLE



De-energising time: $t_{off} = t_{on} \times (100\% / ED - 1)$

Example:

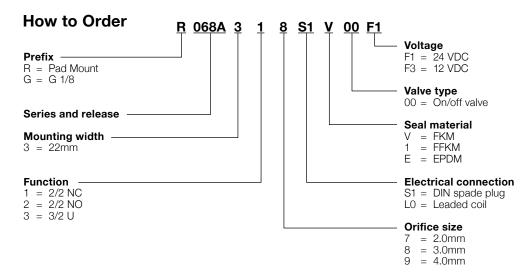
- 1) Determine energising time in minutes (ton): $t_{on} = 15 \text{ min}$
- 2) Find maximum duty cycle value in diagram: ED = 60%
- 3) Calculate de-energising time: $t_{Off}=15~\text{min}~\text{x}~(100\%~/~60\%~\text{-}~1)=10~\text{min}$ 4) Complete cycle time:

 $t_{\text{cycle}} = t_{\text{on}} + t_{\text{off}} = 15 \text{ min} + 10 \text{ min} = 25 \text{ min}$

Note: 100% duty cycle possible when using the power-save connector (catalogue number [24 V DC]: 88100934, catalogue number [12 V DC]: 833-150063)

Specification	S						
	Orifice	Flo			ing Pressure ar (psi)	Power	Catalog Number
Connection	Size	Coefficient		min.	max.	Rating	Body
	mm (inches)	Kv (m ³ /h)	Cv	111111.	gases or liquids	W	PEEK
2/2 NC - Normally	Closed						
	2 (0.079)	0.10	0.12	-0.9 (-13)	5 (72.5)	10	G068A317xxx00xx
G1/8	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
	2 (0.079)	0.10	0.12	-0.9 (-13)	5 (72.5)	10	R068A317xxx00xx
Pad Mounting ¹	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
2/2 NO - Normally	Open						
<u> </u>	2 (0.079)	0.10	0.12	-0.9 (-13)	5 (72.5)	10	G068A327xxx00xx
G1/8	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
	2 (0.079)	0.10	0.12	-0.9 (-13)	5 (72.5)	10	R068A327xxx00xx
Pad Mounting ¹	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
3/2 U-Universal							
	2 (0.079)	0.10	0.12	-0.9 (-13)	5 (72.5)	10	G068A337xxx00xx
G1/8	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
	2 (0.079)	0.10	0.12	-0.9 (-13)	5 (72.5)	10	R068A337xxx00xx
Pad Mounting1	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

^{1 4} hexagon socket head cap mounting screws M3 x 8mm (0.31in), stainless steel, ISO 4762 supplied



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



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FLAPPER SOLENOID FLUID ISOLATION VALVES, 22mm

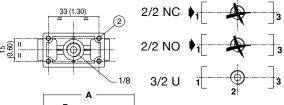
Dimensions: mm (inches)

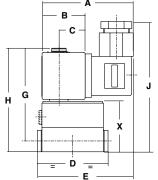


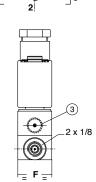
Solenoid with spade plug connector (S1) Epoxy molded

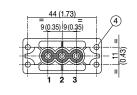
IEC 335/DIN 43650 IP65

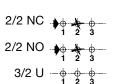


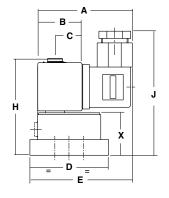


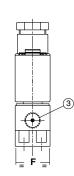








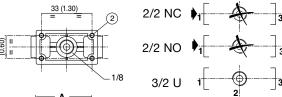


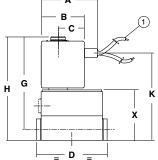


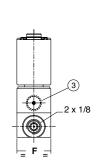
Type 02

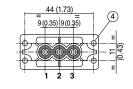
Leaded coil (L0) IEC 335, lead wires: 0.45m (17.7in) long IP40



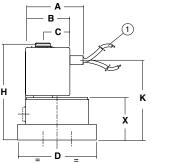












	-	
		3

Туре	Prefix Option	Catalog Number	Α	В	С	D	E	F	G	н	J	К	х	weight kg ¹
01	S1	G068AS1	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
01	31	R068AS1	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	02 L0	G068AL0	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
02		R068AL0	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 Type 01: includes coil(s) and connector(s); Type 02: with 0.45m (17.7in) lead wires

- 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)
- Manual operator location
- 4 mounting holes Ø3.2mm (0.126in) (4 hexagon socket head cap mounting screws M3 x 8mm (0.315in), stainless steel, ISO 4762 supplied)

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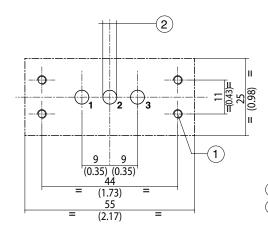
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FLAPPER SOLENOID FLUID ISOLATION VALVES, 22mm

Dimensions: mm (inches)

Subbase Mounting Pattern



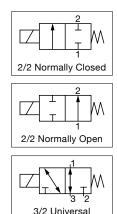


- 1 4 mounting holes Ø3.2mm (0.126in)
- (2) Max. diameter 4.5mm (0.177in) 3x

网址:http://www.asco.store

ROCKER MECHANISM, FLUID ISOLATION, HOSE CONNECTIONS

- · Valves for medical analysers, biotechnology, gas analysers
- Can be used to control acids and bases, as well as analytical reagents
- Any application where the fluid may not come into contact with metal parts and with the electromagnetic control section of the solenoid valves
- The valves are ideal for controlling aggressive fluids or when high purity is demanded and have easy to flush internal cavities
- They can also be used as a very small internal volume flowthrough sampling valve due to rocker technology
- Hermetic separation of control mechanism and fluid
- Reduced heat exchange between coil and fluid
- Protected manual operator
- The use of first class materials and thorough valve testing ensure high reliability and a lifetime of at least 1 million cycles
- · The solenoid valves satisfy all relevant EC directives
- Typical applications include:
 - Hematology





Fluids*	Temperature Range	Seal Materials*
Liquids or gases	0 °C to 40 °C (32 °F to 104 °F)	EPDM (ethylene-propylene)

^{*} Ensure that the compatibility of the materials in contact with the fluids is verified.

General Valve Information*						
Body	PA12					
Internal parts	Stainless steel					
Diaphragm-poppets	EPDM					
Cover	PA12 (transparent), enabling flow of fluid to be seen					
Differential pressure	-0.7 to +2 bar (usable in 0.3 bar abs. vacuum) [1 bar =100 kPa]					
Maximum viscosity	20 cSt (mm²/s)					
Response Time	< 20ms					
Internal Volume	< 75 µl (connections not included)					

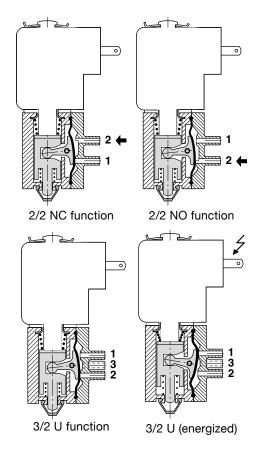
^{*} Ensure that the compatibility of the materials in contact with the fluids is verified

Electrical Characteristics							
Coil Insulation Class	F						
Duty cycle	100%						
Coil	Two spade terminals 2.8 x 0.5 mm (DIN 46340						
Electrical Safety	IEC 335						
Electrical Enclosure Protection	IP65 (EN60529)						
Standard Voltages*	12 VDC, 24 VDC						

^{*} Other voltages on request

ı	Power	Rati	ngs	Ambient			
Inrush	Hole	ding	Hot/Cold	Temperature Ranges	Replacement Coil		Type ¹
VA	VA	W	W	°C (°F)	-	24 VDC	
-	-	-	4/5	-5 to 40 (23 to 104)	-	43004663	01

¹ Refer to the dimensional drawings on the following page





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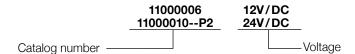
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ROCKER MECHANISM, FLUID ISOLATION, HOSE CONNECTIONS

Specification	ns											
Connection	Orifice Size	Flow Coefficient			Operating Pressure bar (psi)			Power Rating	Catalog Number (protected impulse manual operator)			
Connection						max.			Rear	central		
	mm (inches)	Kv (m³/h)	Cv	l/min	min.	gases	liquids	W	Mounting	support plate mounting		
	2/2 NC - Norma	lly closed /	2 connectio	ns								
	1.5 (0.059)	0.05	0.058	0.75	-0.7 (-10)	2 (29)	2 (29)	5	11000006	11000010P2		
Hose	2/2 NO - Normally open / 2 connections											
connection	1.5 (0.059)	0.05	0.058	0.75	-0.7 (-10)	2 (29)	2 (29)	5	11000005P2	11000009		
to ID 1.5 mm flexible tubing	3/2 U - Universal / 3 connections											
liexible tubilig	1.5 (0.059)	0.05	0.058	0.75	-0.7 (-10)	2 (29)	2 (29)	5	11000007P2	11000011P2		
	3/2 U - Universa	al / 4 connec	ctions									
	1.5 (0.059)	0.05	0.058	0.75	-0.7 (-10)	2 (29)	2 (29)	5	11000008	11000012		

How to Order



Options

- Stainless steel support plate for mounting between body and coil for:
 - 1 solenoid valve, catalogue number 88211001
 - 2 solenoid valves, catalogue number 88211002
 - 3 solenoid valves, catalogue number 88211003
- FKM (fluoroelastomer) diaphragm

- 4 solenoid valves, catalogue number 88211004
- 5 solenoid valves, catalogue number 88211005

For more, contact us

Installation

- The solenoid valves can be mounted in any position without affecting operation
- Rear or control support plate mounting possible (see below)
- Hose connection of flexible tubing Ø 1.5 mm ID
- Compact size and simple tubing (see following page)
- Replacement coils are available
- Installation/maintenance instructions are included with each valve

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ROCKER MECHANISM, FLUID ISOLATION, HOSE CONNECTIONS

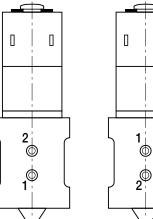
Dimensions: mm (inches)



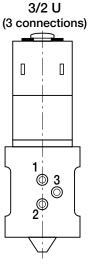
TYPE 01 Prefix "SC" Solenoid DIN 43340

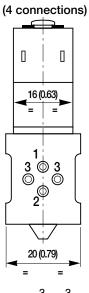
11000005..12

2/2 NC



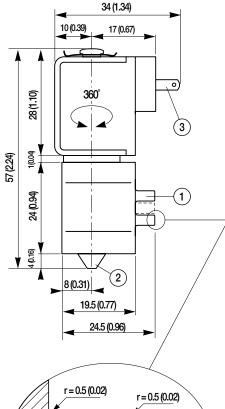
2/2 NO

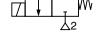




3/2 U

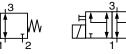








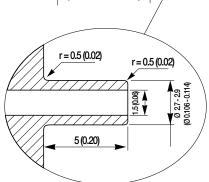




- (1) Hose bibs for connection of ID 1.5 mm flexible tubing
- Protected impulse type manual operator
- Coil with two spade terminals 2.8 x 0.5 (DIN 46340)

Туре	Prefix option	Weight ⁽¹⁾ kg
01	SC	0.46

(1) Incl. coil



Details of hose bib

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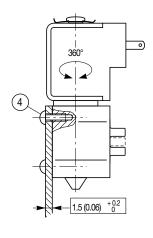
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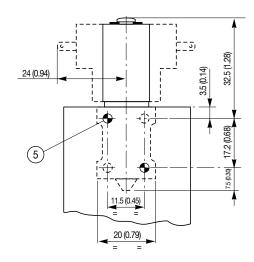
传真:(86-532)585-10-365 Email: sales@bechinas.com

ROCKER MECHANISM, FLUID ISOLATION, HOSE CONNECTIONS

Dimensions: mm (inches)

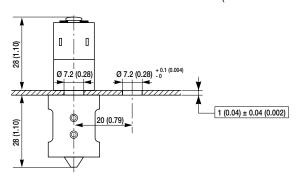
REAR MOUNTING



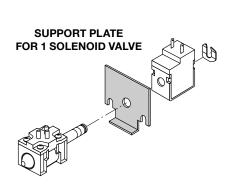


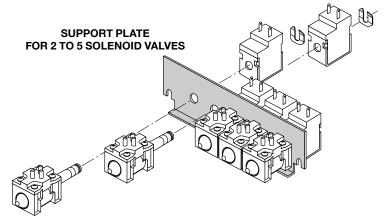
- 4 2 self thread cutting «Torx» screws K 22 x 6 - A2 stainless steel (screws delivered)
 - use these screws only
 - use plate with correct thickness
 - max. torque: 0.3 Nm
- (5) Two mounting holes 2.5 mm dia. Solenoid valve body has four holes for mounting purpose

SUPPORT PLATE MOUNTING (For solenoid valve of corresponding type)



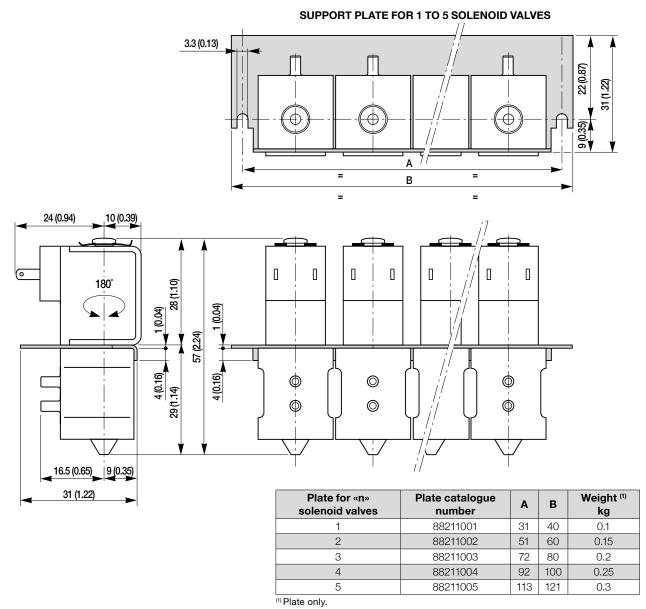
- The panel must be of non-magnetic material.
- To fit to panel, remove the clip and the solenoid valve coil and install as indicated below.





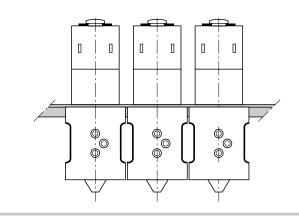
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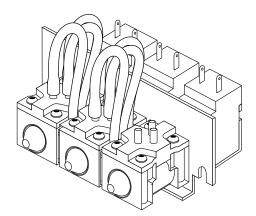
ROCKER MECHANISM, FLUID ISOLATION, HOSE CONNECTIONS



SIMPLE TUBING

When valves mounted side by side on a support plate, an area is left open so that tubes pass between valve bodies







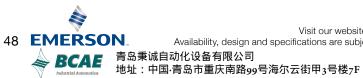




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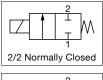


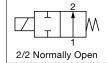
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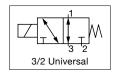
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STEPPER MOTOR PINCH VALVES

- Stepper motor pinch valve, suitable to shut off media without producing neither turbulent flows, nor dead spaces. Particularly suitable for most of the analytical, medical and food applications.
- If equipped with fitting control electronics, the valve can perform ON-OFF functions, as well as analog input and potentiometer control. The "OPEN" and "CLOSE" positions of the valve will be set as indicated in the section "OPERATING INSTRUCTIONS.
- The system allows a bi-directional through flow and a high
- The valve is suitable for elastic tubings with hardness up to 90 Shore A.
- The tubing (not included in our supply) is the only material in contact with the fluid.
- Typical applications include:
 - Blood analysis devices
 - Sample handling
 - Devices with dynamic regulation









General Valve Information*						
Body	Anodized aluminium					
Pinching device	POM (reinforced acetal copolymer)					
Engine cover	PA (Polyamide)					
Board cover	PA (Polyamide)					
Internal components	Brass and Stainless Steel					
max. Tube hardness	90 Shore A					
Ambient temperature	-10°C +60°C					
Minimum step	0.033mm/step					



^{*} Ensure that the compatibility of the materials in contact with the fluids is verified.

Electrical Characteristics							
	Versions without electronic board	Versions with electronic board					
Continous duty	ED 100%	ED 100%					
Insulation class	B (130°C)	B (130°C)					
Drive methods	1-2 phase						
Drive circuit	bipolar chopper						
Windings resistance	24Ω						
Current / phase	500mA						
Electric connection	Molex pitch 2.54mm 4 pins	Molex pitch 2.54mm 6 pins Molex pitch 2.54mm 2 pins					
Protection degree	IP 40 (DIN40050)	IP 40 (EN 60529)					

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STEPPER MOTOR PINCH VALVES

Specifications											
	Tu	bing	B: 1:	a					LED	indicators	
Catalog number	max. O.D. (mm)	orifice size (mm)	Pinching strength (N)	Closing speed (mm/s)	Power Rating (W)	Voltage	Operation	Green	Yellow	Red	Blue
2-way											
S170XA01X0900XX	9.5		up to 80N	3.33	9	12V DC	Wiring			N/A	
2-way On/Off											
S170XA01X1900VU							Wiring	Valve open	Valve closed		
S170XA01X2900VU							Analog input (0-5V)	see Or	perating		Programming mode
S170XA01X3900VU	9.5	6.4	up to 80N	3.33	9	[12%24] V	Analog input (4-20mA)		ctions	Alarm/ Malfunction	
S170XA01X4900VU							Potentiometer	Valve open	Valve closed		
S170XA01X5900VU							Fail saving	Valve open	Valve closed		
2-way normally o	pen										,
S170XA01X8900VU	9.5	6.4	up to 80N	3.33	9	[12%24] V	Fail saving controlled via Potentiometer proportional flow control	Valve open	Valve closed	Alarm/ Malfunction	Programming mode
2-way normally cl	osed										
S170XA01X8901VU	9.5	6.4	up to 80N	3.33	9	[12%24] V	Fail saving controlled via Potentiometer proportional flow control	Valve open	Valve closed	Alarm/ Malfunction	Programming mode
S170XA02X1900VU							On/Off				
3-way											
S370XA01X0900XX	9.5		up to 80N	3.33	9	[12%24] V	Wiring			N/A	
3-way On/Off											
S370XA01X1900VU	9.5	6.4	up to 80N	3.33	9	[12%24] V		Upper Tube open Lower Tube closed	Upper Tube closed Lower Tube Open	Alarm/ Malfunction	Programming mode

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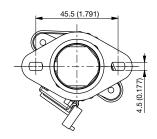
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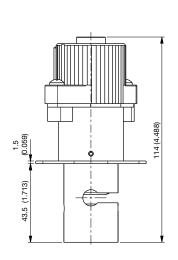
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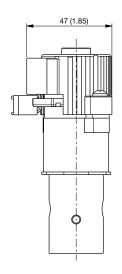
STEPPER MOTOR PINCH VALVES

Dimensions: mm (inches)

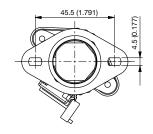
S170-XA01X0900XX

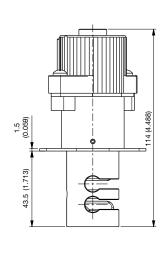


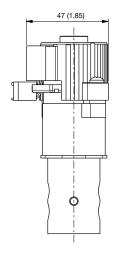




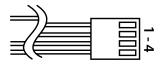
S370-XA01X0900XX







STEPPER MOTOR WIRING



PIN NO.	WIRE COLOR	MOTOR
1	YELLOW	B3
2	ORANGE	B1
3	BROWN	A3
4	BLACK	A1

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WIRE COLOUR CODE

	HEAD SP	INDLE II	N	
CONNECTOR		ST	EP	
PIN NO.	1	2	3	4
1	+	+	-	-
2	-	-	+	+
3	-	+	+	-
4	_	_	_	+

F	HEAD SPINDLE out										
CONNECTOR		STEP									
PIN NO.	1	2	3	4							
1	-	-	+	+							
2	+	+	-	-							
3	-	+	+	-							
4	+	-	-	+							

Notes

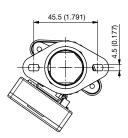
- Some data, e.g. actuating time and power absorption, are directly depending on the electronic control and can vary accordingly
- For the use of a tubing with outside diameter smaller than 6mm, it is necessary to install the tubing guide sleeve (drawing K29501)

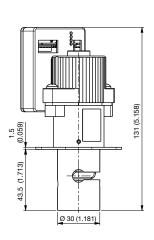
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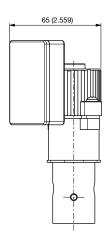
STEPPER MOTOR PINCH VALVES

Dimensions: mm (inches)

S170XA01X1900VU S170XA01X2900VU S170XA01X3900VU S170XA01X4900VU S170XA01X5900VU S170XA02X1900VU



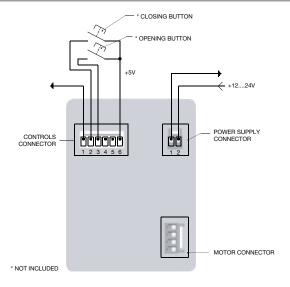




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STEPPER MOTOR PINCH VALVES

Electrical connection



S170XA01X1900VU

Operating Instructions

When power is supplied, the valve will reset (red and green LEDs on) and will automatically move to OPEN position (red LED off).

1. Insert the tube in the respective slot

The valve is now operational and by providing the opening or closing pulse (minimum 10ms), the valve will act accordingly.

LED signals meaning:

- Green LED on -> Valve open
- Yellow LED on -> Valve closed

Notes

- Valve position fixed on loss of power.
- When the power will be restored, the valve will reset (red and green LEDs on) and will automatically move to OPEN position (red LED off).
- For use with different tubings, the min/max opening of the pinching device can be modified as indicated in the Maintenance Instructions.As an alternative, it is also possible to order the valves already programmed, with the desired strokes.
- Some data, e.g. actuating time and power absorption, are directly depending on the electronic control and can vary accordingly
- Valve position fixed on loss of power. "Fail Saving" function available on demand.

S170XA02X1900VU

Operating Instructions

When power is supplied, the valve will reset (red and green LEDs on) and will automatically move to CLOSED position (red LED off).

- 1. Give an OPEN command
- 2. Insert the tube in the respective slot

The valve is now operational and by providing the opening or closing pulse (minimum 10ms), the valve will act accordingly.

LED signals meaning:

• Green LED on -> Valve open

Notes

- Valve position fixed on loss of power.
- When the power will be restored, the valve will reset (red and green LEDs on) and will automatically move to CLOSED position (red LED off).

S370XA01X1900VU

Operating Instructions

When power is supplied, the valve will not move and the red LED will be on.

By simultaneously providing the opening and closing pulses, the valve will reset (red, yellow and green LEDs on) and will automatically move to OPEN position (red and yellow LEDs off).

- 1. Insert the tube in the upper slot
- 2. Provide a closing command and insert the tube in the lower slot

The valve is now operational and by providing the opening or closing pulse (minimum 10ms), the valve will act accordingly.

LED signals meaning:

- Green LED on -> upper slot open lower slot closed
- Yellow LED on -> upper slot closed lower slot open

Notes

- Valve position fixed on loss of power.
- When the power will be restored, the valve will not move and the red LED will be on.
- Remove the tube from the lower slot. If the current position of the valve makes it difficult to remove the tube, use the closing command to facilitate this operation. During this phase, the yellow and red LEDs will be
- After removing the tube, provide simultaneously the opening and closing pulses, so that the valve resets (red, yellow and green LEDs on). This way, the valve will automatically move to OPEN position (red and yellow LEDs off). Perform a closing command and insert the tube in the lower slot.



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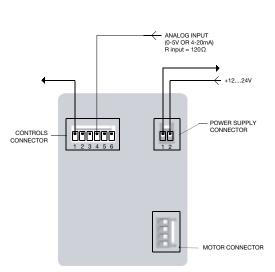
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STEPPER MOTOR PINCH VALVES

Electrical connection



S170XA01X2900VU S170XA01X3900VU

Operating Instructions

When power is supplied, the valve will reset (red and green LEDs on) and will automatically move to CLOSED position.

Depending on the version, there will be:

- a. green LED on and yellow LED flashing for the "voltage version" [0 ÷ 5]V
- b. yellow LED on and green LED flashing for the "current version" [4 ÷ 20]mA.
- 1. Depending on the chosen version, supply 5V or 20mA input to have a complete opening of the valve.
- 2. Insert the tube in the respective slot

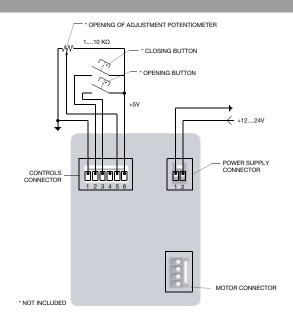
The valve is now operational and by providing a [4 ÷ 20]mA or a [0 ÷ 5]V signal (depending on the chosen version), the valve will act accordingly.

LED signals meaning:

- green LED on and yellow LED flashing -> analogic input on ("voltage version")
- yellow LED on and green LED flashing -> analogic input on ("current version")

Notes

- · Valve position fixed on loss of power.
- When the power will be restored, the valve will reset (red and green LEDs on) and will automatically move to the position set by the input analog signal.
- For use with different tubings, the min/max opening of the pinching device can be modified as indicated in the Maintenance Instructions. As an alternative, it is also possible to order the valves already programmed, with the desired strokes.
- Some data, e.g. actuating time and power absorption, are directly depending on the electronic control and can vary accordingly
- Valve position fixed on loss of power. "Fail Saving" function available on demand.



S170XA01X4900VU

Operating Instructions

When power is supplied, the valve will reset (red and green LEDs on) and will automatically move to OPEN position (red LED off).

If the position of the potentiometer doesn't allow a complete opening of the valve (the yellow LED will be on, in addition to the red and green ones), adjust the potentiometer so as to have a complete opening.

1. Insert the tube in the respective slot

The valve is now operational and by providing the opening or closing pulse (minimum 10ms), the valve will act accordingly.

LED signals meaning:

- Green LED on -> Valve open*
- Yellow LED on -> Valve closed

*the opening degree is controlled by the position of the potentiometer.

Notes

 Valve position fixed on loss of power. When the power will be restored, the valve will reset (red and green LEDs on) and will automatically move to OPEN position (red LED off). If the potentiometer is not in complete opening position, the yellow LED will be on.

NB: With the open valve, it will be possible to adjust the opening degree according to your needs, by adjusting the potentiometer.

- For use with different tubings, the min/max opening of the pinching device can be modified as indicated in the Maintenance Instructions. As an alternative, it is also possible to order the valves already programmed, with the desired strokes.
- Some data, e.g. actuating time and power absorption, are directly depending on the electronic control and can vary accordingly
- Valve position fixed on loss of power. "Fail Saving" function available on demand.

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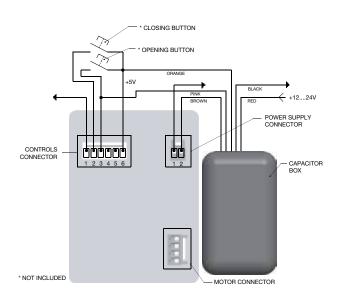


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STEPPER MOTOR PINCH VALVES

Electrical connection



S170XA01X5900VU

Operating Instructions

When power is supplied, the valve will be in OPEN position (green LED on).

1. Insert the tube in the respective slot

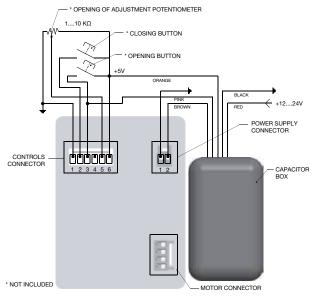
The valve is now operational and by providing the opening or closing pulse (minimum 10ms), the valve will act accordingly.

LED signals meaning:

- Green LED on -> Valve open
- Yellow LED on -> Valve closed

Notes

- The valve, being normally open on loss of power (through the condenser block), will move to OPEN position.
- For use with different tubings, the min/max opening of the pinching device can be modified as indicated in the Maintenance Instructions. As an alternative, it is also possible to order the valves already programmed, with the desired strokes.
- Some data, e.g. actuating time and power absorption, are directly depending on the electronic control and can vary accordingly



S170XA01X8900VU S170XA01X8901VU

Operating Instructions

When power is supplied, the valve will reset (red and green LEDs on) and will automatically move to OPEN position (red LED off).

If the position of the potentiometer doesn't allow a complete opening of the valve (the yellow LED will be on, in addition to the red and green ones), adjust the potentiometer so as to have a complete

1. Insert the tube in the respective slot

The valve is now operational and by providing the opening or closing pulse (minimum 10ms), the valve will act accordingly.

LED signals meaning:

- Green LED on -> Valve open*
- Yellow LED on -> Valve closed

*the opening degree is controlled by the position of the potentiometer.

Notes

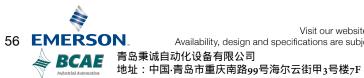
- The normally closed valve will, in case of loss of power (through the capacitor box), move to CLOSED position. The normally open valve will, in case of loss of power (through the capacitor box), move to OPEN position*. NB: With the open valve, it will be possible to adjust the opening degree according to your needs, by adjusting the potentiometer.
- For use with different tubings, the min/max opening of the pinching device can be modified as indicated in the Maintenance Instructions. As an alternative, it is also possible to order the valves already programmed, with the desired strokes.
- Some data, e.g. actuating time and power absorption, are directly depending on the electronic control and can vary accordingly

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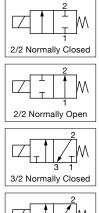


服务热线:4006-918-365

ASCO 传真:(86-532)585-10-365 网址:http://www.asco.store Email: sales@bechinas.com

LEVER SOLENOID FLUID ISOLATION VALVES

- Lever mechanism isolation valves designed for use with aggressive and corrosive liquids and gases in analytical instrumentation and the chemical manufacturing industries
- Large orifice sizes make these valves ideal for high flow-rate and high pressure applications
- Ideally suited for quickly flushing systems of corrosive media and routing aggressive reagents to chemical reaction vessels and waste containers
- Available in both a 2-Way normally closed and normally open versions, as well as 3-Way normally closed, normally open and universal versions; each with multiple connection options
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
 - Raw-material Chemical Manufacturing
 - Pharmaceutical
 - Chip/Wafer Manufacturing
 - Waste Water Treatment





Fluids*	Temperature Range	Seal Materials*
Air, Inert Gases, Filtered Water, Oil or Liquids	-10 °C to 100 °C (14 °F to 212 °F)	VMQ (silicone) FKM (fluoroelastomer) EPDM (ethlyene-propylene)

^{*} Ensure that the compatibility of the materials in contact with the fluids is verified

General Valve Information								
Body	PEI (polyetherimide)	G 1/2: PPS (polypropylene sulphide)						
Response Time		~ 25ms						
Max. Viscosity	37 cSt (mm ² /s)							

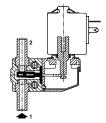
Electrical Characteristics							
Coil Insulation Class	F						
Connector	Spade plug (cable Ø6-8mm or Ø6-10mm)						
Connector Specification	with coil 6W/6W (BMX) DIN 43650, 11mm, industry standard B, with coil 8W/9W (AMX) ISO 4400/EN 175301-803, form A						
Electrical Safety	IEC 335						
Electrical Enclosure Protection	Molded IP65 (EN 60529)						
Standard Voltages ¹	12 VDC, 24 VDC AC ~: 24 V to 115 V to 230 V/50 Hz (BMX = 50 – 60 Hz)						

¹ Other voltages and 60 Hz available on request

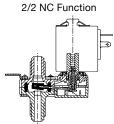
	Po	wer F	Rating	js	Ambient			
Prefix Option	Inrush Holding		Inrush Holding		Replace	Type1		
	VA	VA W °C (°F) 230 V/50 Hz 24 VDC		24 VDC				
	16	10	6	6	-10 to 60 (14 to 40)	43005164	43005149	01 (BMX)
SC	23	14	8	9	-10 to 60 (14 to 40)	43005149	43005144	02 (AMX)
	44	24	8	13	-10 to 60 (14 to 40)	43005320	43005317	03 (FNX)

¹ Refer to the dimensional drawings on the following page

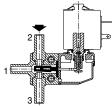




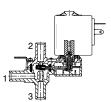
2/2 NC Function



2/2 NO Function



3/2 NC Function



3/2 U Function

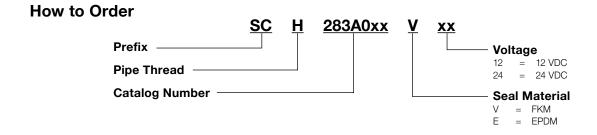
01021GB-2019-R01

青岛秉诚自动化设备有限公司 地址:中国·青岛市重庆南路99号海尔云街甲3号楼7F

服务热线:4006-918-365 网址:http://www.asco.store

LEVER SOLENOID FLUID ISOLATION VALVE

Specificatio	ns											
Spigot O.D.	Pipe	Orifice Size	Flow coeff	icient		Operating Pre bar (psi)			wer ting	Catalog	Op	tions
	connec-					ma	ıx.	(\	V)	number		
mm (inches)	Lion	mm (inches)	Kv (m³/h)	Cv	min.	inert gases	liquids	~	=		FKM	EPDM
2/2 NC - Norm	ally close	d, VMQ Seals										
8 (0.31)	-	2.7 (0.11)	0.23	0.27	0	5 (72.5) [10/145]	5 (72.5)	6	6	SCH283A003	V	Е
8 (0.31)	-	3.4 (0.13)	0.30	0.35	0	3 (43.5) [6/87]	3 (43.5)	6	6	SCH283A004	V	Е
11 (0.43)	-	5.5 (0.22)	0.55	0.64	0	1.5 (21.8)	1 (14.5)	8	9	SCH283A010	-	-
-	G 1/4	3.2 (0.13)	0.32	0.37	0	1.5 (21.8)	1.5 (21.8)	8	9	SCG283A013	-	-
-	G 1/4	5.5 (0.22)	0.55	0.64	0	1.5 (21.8)	1 (14.5)	8	9	SCG283A014	-	-
2/2 NC - Norm	ally close	d, EPDM Seals										
11 (0.43)	-	5.5 (0.22)	0.55	0.64	0	4.5 (65.3)	1 (14.5)	8	9	SCH283A008E	V	-
-	G 1/4	3.2 (0.13)	0.32	0.37	0	10 (145)	2.4 (34.81)	8	9	SCG283A011E	V	-
-	G 1/4	5.5 (0.22)	0.55	0.64	0	4.5 (65.3)	1 (14.5)	8	9	SCG283A012E	V	-
-	G 1/2	10 (0.394)	1.6	1.85	0	1.6 (23.2)	0.25 (3.63)	13	13	SCG283C006E	V	-
2/2 NO - Norm	ally open,	VMQ Seals										
8 (0.31)	-	3.4 (0.13)	0.30	0.35	0	3 (43.5) [6/87]	3 (43.5)	6	6	SCH283A016	V	Е
2/2 NO - Norm	ally open,	, FKM Seals										
11 (0.43)	-	5.5 (0.22)	0.55	0.64	0	1.5 (21.8)	1 (14.5)	8	9	SCH283A018V	-	-
3/2 NC - Norm	ally close	d, VMQ Seals										
8 (0.31)	-	3.4 (0.13)	0.30	0.35	0	1 (14.5)	1 (14.5)	6	6	SCH383A003	V	Е
3/2 NO - Norm	ally open,	FKM Seals										
8 (0.31)	-	3.4 (0.13)	0.30	0.35	0	2.5 (36.2)	2 (29)	6	6	SCH383A004V	-	-
-	G 1/2	9 (0.35)	1.6	1.85	0	0.4 (5.8)	-	13	-*	SCG383C006	-	-
3/2 NO - Norm	ally open,	EPDM Seals										
8 (0.31)	-	3.4 (0.13)	0.30	0.35	0	2.5 (36.2)	2 (29)	6	6	SCH383A004E	-	-
3/2 U - Univers	sal, VMQ S	Seals										
11 (0.43)	-	3.2 (0.12)	0.28	0.32	0	1.5 (21.8)	1.5 (21.8)	8	9	SCH383A007	V	Е
-	G 1/4	3.2 (0.12)	0.28	0.32	0	1.5 (21.8)	1.5 (21.8)	8	9	SCG383A008	V	E



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^{*} AC Version available only
[] Value for pressure with FKM and EPDM seals

LEVER SOLENOID FLUID ISOLATION VALVE

Dimensions: mm (inches)

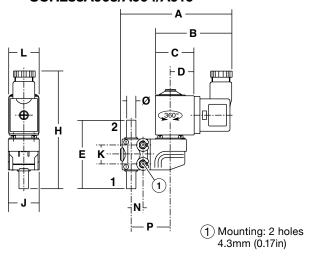


TYPE 01 Prefix "SC" Solenoid DIN 43650

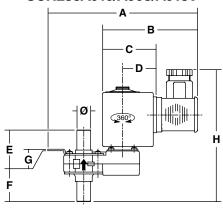


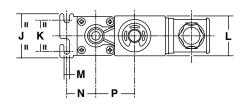
TYPE 02 Prefix "SC" Solenoid ISO 4400

SCH283A003/A004/A016









Pressure inlet:

NC function: orifice 1 (type 01) or arrow on body (type 02) NO function: orifice 2 (type 01) or arrow on body (type 02)

Туре	Prefix Option	Catalog Number	А	В	С	D	E	F	G	н	J	К	L	М	N	Р	Weight ² kg
01	SC	SCH283A003/A004	94	64.5	33.5	21	58			97	26	16	25		10	33	0.170
01	30	SCH283A016	(3.7)	(2.54)	(1.32)	(0.83)	(2.28)	_	,	(3.82)	(1.02)	(0.63)	(0.98)	_	(0.39)	(1.30)	0.200
02	SC	SCH283A010/ A008E/018V	121.5 (4.78)	78 (3.07)	43 (1.69)	27 (1.06)	16.5 (0.65)	40.5 (1.59)	1.2 (0.047)	105 (4.13)	35 (1.38)	25 (0.98)	32 (1.26)	4.5 (0.18)	23 (0.91)	31 (1.22)	0.285

² Including coil(s) and connector(s)



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LEVER SOLENOID FLUID ISOLATION VALVE

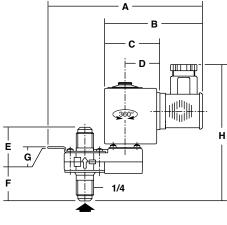
Dimensions: mm (inches)

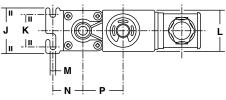


TYPE 01 Prefix "SC" Solenoid ISO 4400

TYPE 02 Prefix "SC" Solenoid ISO 4400

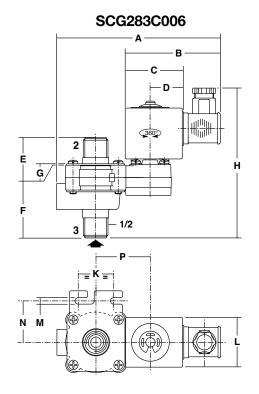
SCG283A011/012/ 013/014/019V





Pressure inlet:

NC function: arrow on body (type 01) or orifice 3 (type 02) NO function: arrow on body (type 01)



Туре	Prefix Option	Catalog Number	A	В	С	D	E	F	G	н	J	К	L	М	N	Р	Weight ² kg
01	SC	SCG283A011E/ 012E/013/014/019V	121.5 (4.78)	78 (3.07)	43 (1.69)	27 (1.06)	16.5 (0.65)	40.5 (1.59)	1.2 (0.047)	105 (4.13)	35 (1.38)	25 (0.98)	32 (1.26)	4.5 (0.177)	23 (0.906)	31 (1.22)	0.285
02	SC	SCG283C006E	142.5 (5.61)	84 (3.31)	49 (1.93)	28 (1.10)	23.5 (0.93)	61.5 (2.42)	1.2 (0.047)	128 (5.04)	-	30 (1.18)	42 (1.65)	5.5 (0.217)	35 (1.38)	46 (1.81)	0.57

² Including coil(s) and connector(s).

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LEVER SOLENOID FLUID ISOLATION VALVE

Dimensions: mm (inches)

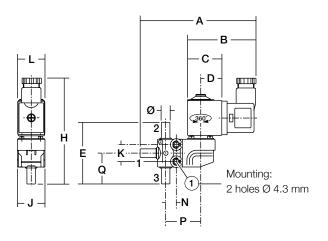


TYPE 01 Prefix "SC" Solenoid DIN 43650

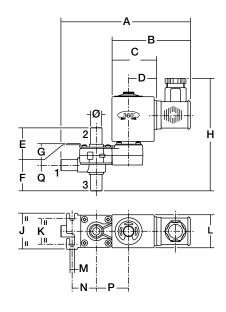


TYPE 02 Prefix "SC" Solenoid ISO 4400

SCH383A003 / A004V / A004E



SCH383A007



Pressure inlet:

NC function: orifice 2 (type 01) NO function: orifice 3 (type 01) U function: all orifices (type 02)

Туре	Prefix Option	Catalogue number	А	В	С	D	E	F	G	н	J	к	L	М	N	Р	Q	Weight2 kg
01	SC	SCH383A003/A004V/ A004E	111 (4.37)	64.5 (2.54)	33.5 (1.32)	21 (0.83)	58 (2.28)	-	-	97 (3.82)	26 (1.02)	16 (0.63)	25 (0.98)	-	10 (0.39)	33 (1.30)	29 (1.14)	0.200
02	SC	SCH383A007	127 (5.0)	78 (3.07)	43 (1.69)	27 (1.06)	16.5 (0.65)	40.5 (1.59)	1.2 (0.05)	105 (4.13)	35 (1.38)	25 (0.98)	32 (1.26)	4.5 (0.18)	23 (0.91)	31 (1.22)	19.5 (0.77)	0.345

² Including coil(s) and connector(s).



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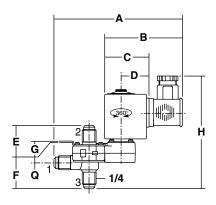
LEVER SOLENOID FLUID ISOLATION VALVES

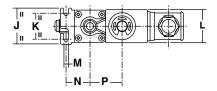
Dimensions: mm (inches)



TYPE 01 Prefix "SC" Solenoid ISO 4400

SCG383A008

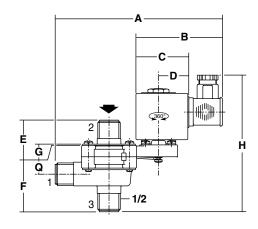


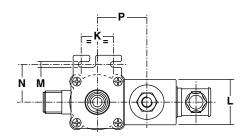




TYPE 02 Prefix "SC" Solenoid ISO 4400

SCG383C006





Туре	Prefix option	Catalogue number	Α	В	С	D	E	F	G	н	J	к	L	М	N	P	Q	Weight ² kg
01	SC	SCG383A008	127 (5.0)	78 (3.07)	43 (1.69)	27 (1.06)	16.5 (0.65)	44.5 (1.75)	1.2 (0.05)	109 (4.29)	35 (1.38)	25 (0.98)	32 (1.26)	4.5 (0.18)	23 (0.91)	31 (1.22)	19.5 (0.77)	0.345
02	SC	SCG383C006	159 (6.26)	84 (3.31)	49 (1.93)	28 (1.10)	23.5 (0.93)	61.5 (2.42)	1.2 (0.05)	128 (5.04)	-	30 (1.18)	42 (1.65)	5.5 (0.22)	35 (1.38)	46 (1.81)	26.5 (1.04)	0.51

² Including coil(s) and connector(s).

Options

- Valves can also be supplied with FKM (fluoroelastomer) and EPDM (ethylene-propylene) seals.
- Plug with visual indication and peak voltage suppression or with cable length of 2m (78.7in)

Installation

- The solenoid valves can be mounted in any position without affecting operation. For optimum performance mount solenoid vertical and upright
- Replacement coils are available: BMX: DC: 12 V, cat. no.: 43005158 /AC: 24 V, cat. no.: 43005161; 115 V, cat. no.: 43005162
 AMX: DC: 12 V, cat. no.: 43005143/AC: 24 V, cat. no.: 43005146; 115 V, cat. no.: 43005147

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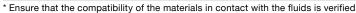
网址:http://www.asco.store

传真:(86-532)585-10-365

PINCH VALVES, COMPACT 2-WAY SOLENOID

- The 284 Series are 2-Way normally closed and normally open solenoid operated pinch valves designed for use with highly aggressive or high-purity liquids in analytical and medical instrumentation, and industrial applications
- Hermetic separation of control mechanism and the fluid within the tubing prevents particulate contamination caused by friction of moving parts, assuring maximum purity of liquids
- · Removable and rotatable electrical coils allow for easy installation and worry-free maintenance
- Bi-directional flow for exceptional versatility
- · Available in a large range of body sizes to accommodate a wide variety of tubing sizes
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
 - Hemodialysis
 - Urinary Collection Systems
 - Intravenous (IV) Systems
 - Drug Dispensing

Fluids*	Temperature Range
Air, Inert Gases, Water, Oil or Liquids	0 °C to 50 °C (32 °F to 122 °F)

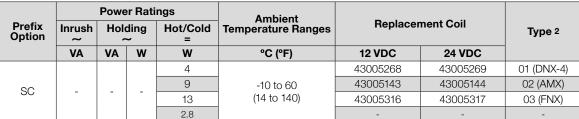


General Valve Information*									
Body	Aluminum, anodized	POM (Graphite-reinforced polyacetal)							
Pinch Mechanism	POM (Graphite-reinforced polyacetal)								
Others	Stainless Steel								
Guide Tube	Nickel-plated brass								
Coil frame		Galvanized steel							
Recommended Tubing	VMQ (silicone) (max. Hardness: 50 Shore A) Tubing not supplied with valve	VMQ (silicone) (max. Hardness: 50 Shore A) 30cm (12in) tubing supplied with valve							

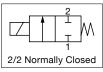
^{*} Ensure that the compatibility of the materials in contact with the fluids is verified

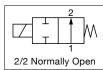
Electrical Charac	teristics	
	Aluminium Body	POM Body
Coil Insulation Class	F	A
Connector	Spade plug; cable Ø4-6mm (0.16- 0.24in), Ø6-10mm (0.24-0.40in)	305mm (12in) Lead Wires
Connector Specification	4 W (DNX-4) DIN 43650, 9.4mm (0.37in), industry standard B 6 W/13 W (AMX/FNX) ISO 4400/EN 175301-803, form A	
Electrical Safety	IEC 335	IEC 335
Electrical Enclosure Protection	Coil type 01 = IP65 Coil type 02-03 = IP65	IP30 (EN 60529)
Standard Voltages 1	12 VDC, 24 VDC	12 VDC, 24 VDC
Power Consumption	4 W, 9 W, 13 W	2.8 W
Response Time	< 20ms	<10 ms

¹ Other voltages on request

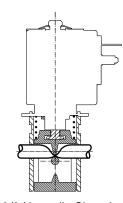


² Refer to the dimensional drawings on the following page

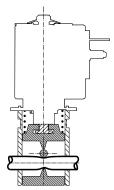








2/2 Normally Closed



2/2 Normally Open



01085GB-2019-R01



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ASCOTM MINIATURE SOLENOID VALVES PINCH VALVES, COMPACT 2-WAY SOLENOID

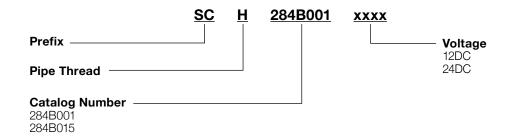
Specification	ons														
Tube I.D.	Tube O.D.	Pinch Force	Ol	perating Pi bar (ps			wer		Catalog Number						
		Force		ma	ax.	ка	ting		POM						
mm (inches)	mm (inches)	daN	min.	air, inert gas	liquids	,	w	Aluminium	24 VDC	12 VDC					
2/2 NC - Nori	mally Closed														
0.76 (0.030)	1.65 (0.065)	0.18	0	0.8 (11.6)	0.8 (11.6)	-	4	SCH284B001	-	-					
1.02 (0.040)	2.16 (0.085)	0.22	0	0.8 (11.6)	0.8 (11.6)	-	4	SCH284B002	-	-					
1.57 (0.062)	3.18 (0.125)	0.28	0	0.8 (11.6)	0.8 (11.6)	-	4	SCH284B003	-	-					
1.98 (0.078)	3.18 (0.125)	0.25	0	0.8 (11.6)	0.8 (11.6)	-	4	SCH284B004	-	-					
2.7 (0.106)	4.9 (0.193)	0.65	0	0.8 (11.6)	0.8 (11.6)	-	9	SCH284A005	-	-					
4.8 (0.189)	7.9 (0.311)	1.1	0	0.8 (11.6)	0.8 (11.6)	-	13	SCH284B006	-	-					
6.4 (0.252)	9.5 (0.374)	1.4	0	0.8 (11.6)	0.8 (11.6)	-	13	SCH284B007	-	-					
1.6 (0.063)	3.2 (0.126)	0.28	0	1.5 (21.8)	1.5 (21.8)	-	2.8	-	P284A020LCA00V1	P284A020LCA00V3					
1.6 (0.063)	3.2 (0.126)	0.28	0	1.5 (21.8)	1.5 (21.8)	-	2.8	-	P284A021LCA00V1 2)	P284A021LCA00V3 2					
2) P284A021LC	A00V1/P284A02	1LCA00V	3 = Th	e flange is ro	tatable with	90° (please	see "Pic. 2" on fol	lowing page)						
2/2 NO - Nor	mally Open														
0.76 (0.030)	1.65 (0.065)	0.18	0	0.8 (11.6)	0.8 (11.6)	-	4	SCH284B009	-	-					
1.02 (0.040)	2.16 (0.085)	0.22	0	0.8 (11.6)	0.8 (11.6)	-	4	SCH284B010	-	-					
1.57 (0.062)	3.18 (0.125)	0.28	0	0.8 (11.6)	0.8 (11.6)	-	4	SCH284B011	-	-					
1.98 (0.078)	3.18 (0.125)	0.25	0	0.8 (11.6)	0.8 (11.6)	-	4	SCH284B012	-	-					
2.7 (0.106)	4.9 (0.193)	0.65	0	0.8 (11.6)	0.8 (11.6)	-	9	SCH284A013	-	-					
4.8 (0.189)	7.9 (0.311)	1.1	0	0.8 (11.6)	0.8 (11.6)	-	13	SCH284B014	-	-					
6.4 (0.252)	9.5 (0.374)	1.4	0	0.8 (11.6)	0.8 (11.6)	-	13	SCH284B015	-	-					
1.6 (0.063)	3.2 (0.126)	0.28	0	1.5 (21.8)	1.5 (21.8)	-	2.8	-	P284A022LCA00V1	P284A022LCA00V3					
1.6 (0.063)	3.2 (0.126)	0.28	0	1.5 (21.8)	1.5 (21.8)	-	2.8	-	P284A023LCA00V1 2)	P284A023LCA00V3 2)					

²⁾ P284A023LCA00V1/P284A023LCA00V3 = The flange is rotatable with 90° (please see "Pic. 2" on following pages)

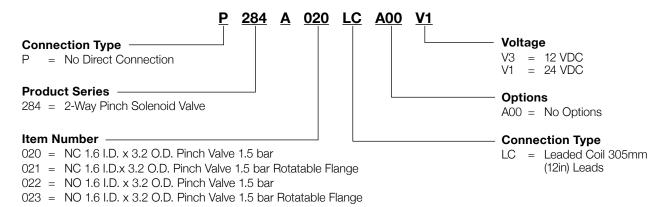
传真:(86-532)585-10-365

PINCH VALVES, COMPACT 2-WAY SOLENOID

How to Order Aluminium body



How to Order POM Body



Options

- Flexible tubes having to use an external guiding device for optimum support (see dimensions):
 - With an outside diameter lower than 2.2mm (0.087in) (catalog numbers SCH284B001 to ..B004)
 - With an outside diameter lower than 3.5mm (0.138in) (catalog number SCH284A005)
 - With an outside diameter lower than 6mm (0.236in) (catalog numbers SCH284B006 and ..007)
- Contact us for information regarding the usage of different tubing other than those recommended
- Plug with visual indication and peak voltage suppression or with cable length of 2m (78.7in)

Installation

- The solenoid valves can be mounted in any position without affecting operation, however, for optimum performance it is recommended that they be fitted with the solenoid operator at the top
- Fixing plate built in between the body and the coil for assembly in a bank on a base plate
- Flexible tubes are not included with valve
- In case the tubing is not placed in its seat, the solenoid valve could operate incorrectly.



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网址:http://www.asco.store

PINCH VALVES, COMPACT 2-WAY SOLENOID

Dimensions: mm (inches)

Type 01

Prefix "SC" solenoidd IEC 335/DIN 43650

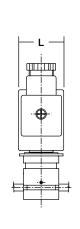


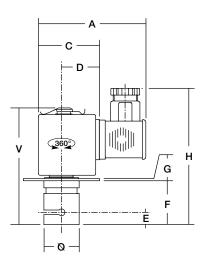
Type 01: SCH284B001/002/003/004/ 009/010/011/012

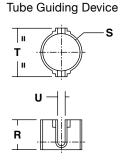


Prefix "SC" solenoid IEC 335/ISO 4400 **IP65**

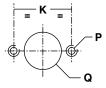
Type 02: SCH284A005/A013 Type 03: SCH284B006/B007/B014/B015



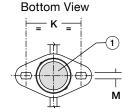




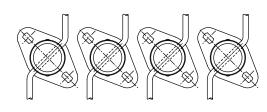
Arrangement for Mounting



1 Impulse Manual Operator



Example of Banked Assembly



																						Tube Guidi	ng
Туре	Prefix Option	Catalog Number	ø	Α	С	D	E	F	G	н	к	L	М	Р	Q	R	s	т	U	v	Weight ¹	Catalog Number	٧
01	SC	SCH284B001/002 /003/004/009 /010/011/012	16 (0.63)	49.5 (1.95)	23.5 (0.93)	15 (0.60)	11 (0.43)	20 (0.79)	1 (0.04)	66 (2.60)	24 (0.95)	17 (0.67)	3.3 (0.13)	МЗ	16.5 (0.65)	10.7 (0.42)	16 (0.63)	24 (0.95)	2.2 (0.09)	51.2 (2.02)	0.06	C140094	
02	SC	SCH284A005/ A013	25 (0.98)	78 (3.07)	43 (1.69)	27 (1.06)	17.5 (0.69)	32 (1.26)	1.5 (0.06)	99 (3.90)	39 (1.54)	32 (1.26)	4.5 (0.18)	M4	25.5 (1.00)	14 (0.55)	25 (0.98)	33 (1.30)	3.2 (0.13)	82.5 (3.25)	0.28	C140095	
03	SC	SCH284B006/ B007 /B014/B015	30 (1.18)	84 (3.31)	49 (1.93)	28 (1.10)	24.5 (0.96)	43.5 (1.71)	1.5 (0.06)	99 (3.90)	45.5 (1.80)	42 (1.65)	4.5 (0.18)	M4	30.5 (1.20)	24 (0.94)	30 (1.18)	39 (1.54)	6 (0.24)	99 (3.90)	0.47	C140096	Γ

¹ Including coil(s) and connectors

g Device Weight1 kg 0.005 0.009 0.015

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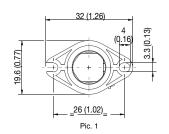
网址:http://www.asco.store

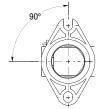
传真:(86-532)585-10-365

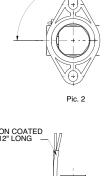
PINCH VALVES, COMPACT 2-WAY SOLENOID

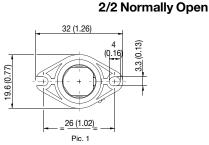
Dimensions: mm (inches)

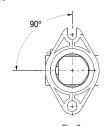
2/2 Normally Closed

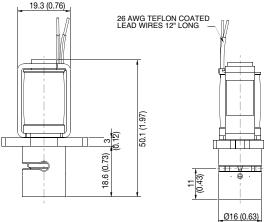


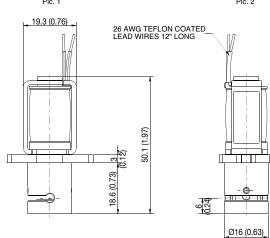










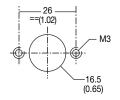


Tube Guiding Device

16 (0.63)



Arrangement for Wall-fitting



Catalog Number	Weight
Catalog Nulliber	kg
P284A020LCA00V1/V3	
P284A021LCA00V1/V3	0.04
P284A022LCA00V1/V3	0.04
P284A023LCA00V1/V3	

Tube Guiding Device								
Catalog	Weight							
Number	kg							
25978-01	0.005							

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网址:http://www.asco.store



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PINCH VALVES, COMPACT 3-WAY SOLENOID

- The 384 Series is a 3-Way universal solenoid-operated pinch valve designed for use with highly aggressive or high-purity liquids in analytical and medical instrumentation, and industrial applications
- Hermetic separation of control mechanism and the fluid within the tubing prevents particulate contamination caused by friction of moving parts, assuring maximum purity of liquids
- Available in a large range of body sizes to accommodate a wide variety of tubing sizes
- Removable and rotatable electrical coils allow for easy installation and worry-free maintenance
- Bi-directional flow for exceptional versatility
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
 - Hemodialysis
 - Urinary Collection Systems,
 - Intravenous (IV) Systems
 - Drug Dispensing

Fluids*	Temperature Range
Air, Inert Gases, Water, Oil or Liquids	0 °C to 50 °C (32 °F to 122 °F)

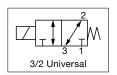
* Ensure that the compatibility of the materials in contact with the fluids is verified

General Valve Information*									
Body	Aluminum, anodized POM (Graphite-reinforced polyaceta								
Pinch Mechanism	POM (Graphite-reinforced polyacetal)								
Others	Stainless Steel								
Guide Tube	Nickel-plated Brass								
Coil frame		Galvanized steel							
Recommended Tubing	VMQ (silicone) (max. hardness: 50 Shore A) (Tubing not supplied with valve)	VMQ (silicone) (max. Hardness: 50 Shore A) 30cm (12in) tubing supplied with valve							

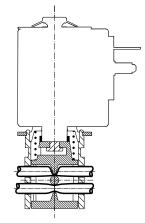
Electrical Characteristics								
	Aluminium body	POM body						
Coil Insulation Class	F	F						
Connector	Spade plug; cable Ø4-6mm (0.16-0.24in), Ø6-10mm (0.24-0.40in)							
Connector Specification	4 W/8 W/6 W (DMX); DIN 43650, 9.4 mm, industry standard B; 6 W/13 W (AMX/FNX); ISO 4400/EN 175301-803, form A	305mm (12in) Lead Wires						
Electrical Safety	IEC 335	IEC 335						
Electrical Enclosure Protection	Coil type 01 = IP65 / Coil type 02-03 = IP65	IP30 (EN 60529)						
Standard Voltages1	12 VDC, 24 VDC	12 VDC, 24 VDC						
Power Consumption	4W, 6W, 8W, 9W, 13W	3.5W						
Response Time	< 20ms	< 10ms						

1 Other voltages on request										
	l	Powe	er Rati	ings	Ambient					
Prefix Option	Inrush	Hol	ding	Hot/Cold	Temperature Ranges	Replace	Type ²			
	VA	VA W		W	°C (°F)	12 VDC	24 VDC			
				4	40.1.00	43005268	43005269			
		,		8		500701-001	500701-002	01 (DNX-4)		
SC	-	-	-	6	-10 to 60 (14 to 140)	500701-003	500701-004			
				9	(14 to 140)	43005143	43005144	02 (AMX)		
				13		43005316	43005317	03 (FNX)		

² Refer to the dimensional drawings on the following page

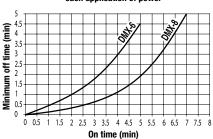






USE IN INTERMITTENT SERVICE

Minimum waiting time between each application of power





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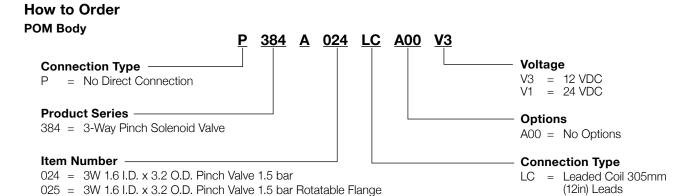
PINCH VALVES, COMPACT 3-WAY SOLENOID

Specifications													
Tube I.D.	Tube O.D.	Pinch Force	Operating Pressure bar (psi)				wer	Catalog Number					
			min.	ma	X.			POM body					
mm (inches)	mm (inches)	daN	111111.	inert gases	liquids		W Aluminium body		24 VDC	12 VDC			
0.76 (0.030)	1.65 (0.065)	0.12	0	0.8 (11.6)	0.8 (11.6)	-	4	SCH384B004	-	-			
1.02 (0.040)	2.16 (0.085)	0.18	0	0.8 (11.6)	0.8 (11.6)	-	4	SCH384B001	-	-			
1.57 (0.062)	3.18 (0.125)	0.22	0	0.8 (11.6)	0.8 (11.6)	-	8	SCH384B0023	-	-			
1.98 (0.078)	3.18 (0.125)	0.18	0	0.8 (11.6)	0.8 (11.6)	-	6	SCH384B003 ³	-	-			
3.4 (0.132)	4.7 (0.183)	0.4	0	0.8 (11.6)	0.8 (11.6)	-	9	SCH384A005	-	-			
4.8 (0.187)	7.9 (0.313)	0.85	0	0.8 (11.6)	0.8 (11.6)	-	13	SCH384B006	-	-			
6.4 (0.250)	9.5 (0.375)	1.1	0	0.8 (11.6)	0.8 (11.6)	-	13	SCH384B007	-	-			
1.6 (0.063)	3.2 (0.126)	0.22	0	1.5 (21.8)	1.5 (21.8)	-	3.5	-	P384A024LCA00V1	P384A024LCA00V3			
1.6 (0.063)	3.2 (0.126)	0.22	0	1.5 (21.8)	1.5 (21.8)	-	3.5	-	P384A025LCA00V1 ⁴	P384A025LCA00V3 ⁴			

³ Observe the minimum of time stated, see graph above

How to Order Aluminum body





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⁴ The flange is rotatable with 90° (please see "Pic. 2" on following page)

PINCH VALVES, COMPACT 3-WAY SOLENOID

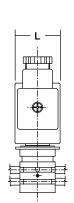
Dimensions (Aluminium body): mm (inches)

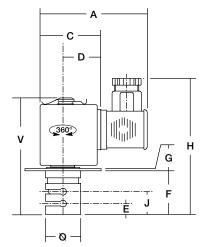
Type 01

Prefix "SC" solenoidd IEC 335/DIN 43650

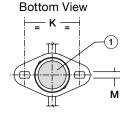
IP65

Type 01: SCH384B001/0002/003/004







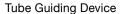


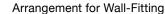


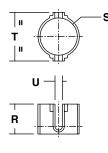
Prefix "SC" solenoid IEC 335/ISO 4400

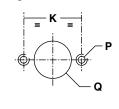
IP65

Type 02: SCH384A005 Type 03: SCH384B006/B007

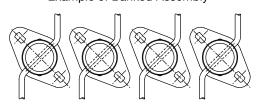








Example of Banked Assembly



Туре	Prefix Option	Catalog Number	Ø	A	С	D	E	F	G	Н	K	L	М	P	Q	R	s	Т	U	V	Weight1
01	sc	SCH384B001/002 /003/004	16 (0.63)	49.5 (1.95)	23.5 (0.92)	15 (0.59)	11 (0.24)	20 (0.79)	1 (0.04)	66 (2.60)	24 (0.43)	17 (0.67)	3.3 (0.13)	МЗ	16.5 (0.65)	10.7 (0.42)	16 (0.63)	24 (0.94)	2.2 (0.09)	51.2 (2.02)	0.06
02	sc	SCH384A005	25 (0.98)	78 (3.07)	43 (1.69)	27 (1.06)	17.5 (0.41)	32 (1.26)	1.5 (0.06)	99 (3.90)	39 (1.54)	32 (1.26)	3.3 (0.18)	M4	25.5 (1.00	14 (0.55)	25 (0.98)	33 (1.30)	3.2 (0.12)	82.5 (3.25)	0.30
03	SC	SCH384B006/ B007	30 (1.18)	84 (3.31)	49 (1.93)	28 (1.10)	24.5 (0.96)	43.5 (1.71)	1.5 (0.06)	99 (3.90)	45.5 (1.79)	42 (1.65)	4.5 (0.18)	M4	30.5 (1.20)	24 (0.94)	30 (1.18)	39 (1.54)	6 (0.24)	99 (3.90)	0.45

Tube Guiding Device							
Catalog	Weight1						
Number	kg						
C140094	0.005						
C140095	0.009						
C140096	0.015						

Options (Aluminium body)

- · Flexible tubes having to use an external guiding device for optimum support (see dimensions):
 - With an outside diameter lower than 2.2mm (0.087in) (catalog numbers SCH384B001 to ..B004)
 - With an outside diameter lower than 3.5mm (0.138in) (catalog number SCH384A005)
 - With an outside diameter lower than 6mm (0.240in) (catalog numbers SCH384B006 and ..007)
 - Contact us for information regarding the usage of different tubing other than those recommended
- Plug with visual indication and peak voltage suppression or with cable length of 2m (78.7in)

Installation (Aluminium body)

- The solenoid valves can be mounted in any position without affecting operation, however, for optimum performance it is recommended that they be fitted with the solenoid operator at the top
- · Fixing plate built in between the body and the coil for assembly in a bank on a base plate
- Flexible tubes are not included in our supply
- In case the tubing is not placed in its seat, the solenoid valve could operate incorrectly.

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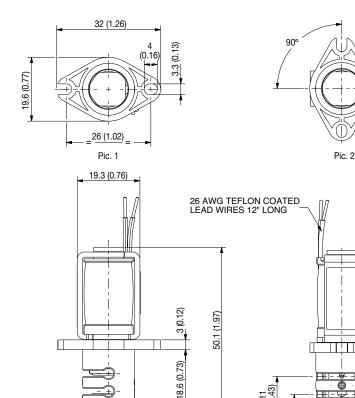
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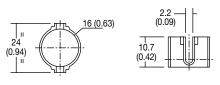
¹ Including coil(s) and connectors

PINCH VALVES, COMPACT 3-WAY SOLENOID

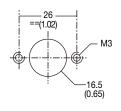
Dimensions (POM body): mm (inches)



Tube Guiding Device



Arrangement for Wall-fitting



Catalog Number	Weight1
Outured Humber	kg
P384A024LCA00V1/V3	0.04
P384A025LCA00V1/V3	0.04

	Tube Gui	ding Device				
	Catalog	Weight ¹				
	Number	kg				
l	25978-01	0.005				

¹ Including coil(s) and connectors

Options (POM body)

- Flexible tubes having to use an external guiding device for optimum support (see dimensions):
- With an outside diameter lower than 2.2mm (0.087in)
- Contact us for information regarding the usage of different tubing other than those recommended

Installation (POM body)

- The solenoid valves can be mounted in any position without affecting operation, however, for optimum performance it is recommended that they be fitted with the solenoid operator at the top
- Fixing plate built in between the body and the coil for assembly in a bank on a base plate
- In case the tubing is not placed in its seat, the solenoid valve could operate incorrectly.

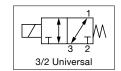
6 (0.24)

Ø16 (0.63)

ASCO*传真:(86-532)585-10-365

ROCKER MECHANISM, FLUID ISOLATION VALVES

- Rocker isolation valves are designed for use with neutral or highly aggressive liquids in analytical instrumentation
- Special rocker mechanism, combined with a separating diaphragm, prevents heat transfer to the fluid and eliminates the sticking effect of the valve seat
- 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 lowvolume internal cavity make these valves ideal in application where cross-contamination must be minimized
- Removable and rotatable electrical coils allow for easy installation and worry-free maintenance
- · Meets all relevant CE directives
- Typical applications include:
 - In-vitro Diagnostics
 - Hematology
 - DNA Sequencing
 - Surgical Fluid Management

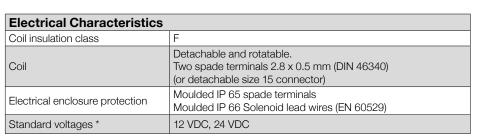




Fluids*	Temperature Range	Seal Materials*	
liquids or gases	10°C to +80°C (14°F to 176°F)	FFKM (perfluoroelastomer) or EPDM (ethylene-propylene)	

^{*} Ensure that the compatibility of the materials in contact with the fluids is verified

General Valve Information							
	PEEK Body	PA Body					
Body	PEEK	PA (polyamide 12)					
Differential pressure	·	See «Specifications» [1 bar =100 kPa] 0.7 bar abs. (vacuum on polyamide body only)					
Maximum viscosity	37 cSt (mm ² /s)						
Response time	20 ms						
Internal volume	< 67 µl						



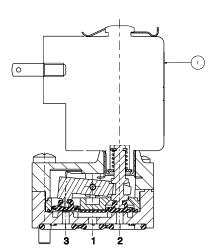
^{*} Other voltages on request.

		Power	ratings		Ambient	B I		
Prefix option	Inrush	Holding		Hot/Cold	temperature range	Replace	Type (1)	
option	VA	VA	W	W	°C (°F)	12 VDC	24 VDC	
SC	-	-	-	4	-10 to 60 (14 to 140)	43005268	43005269	1
L	-	-	-	4	-10 to 60 (14 to 140)	43005408	43005430	2

⁽¹⁾ Refer to the dimensional drawings on the following page.

青岛秉诚自动化设备有限公司

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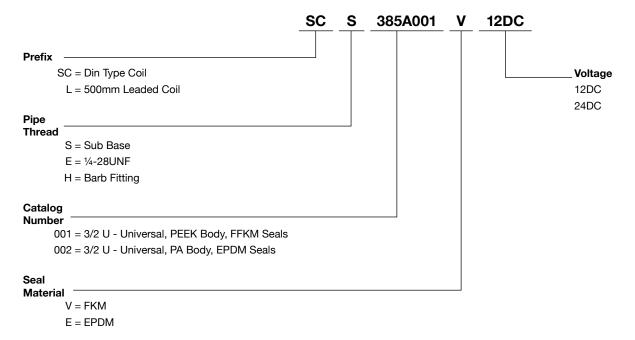
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网址:http://www.asco.store

ROCKER MECHANISM, FLUID ISOLATION VALVES

Specifications																			
	Orifice		Flow			Dai (DSI)			wer			Seal Materials							
Pipe Size	Size	c	oefficie	ent		max	. (PS)		ting										
Pipe Size					min.	Gases (*)	Liquids (*)	(W)				FKM	EPDM						
	(mm)	Kv (m ³ /h)	Cv	(I/min)		=	=	~	=	PEEK Body	PA Body		L. DIVI						
Pad mount										SCS385A001									
1/4" - 28 UNF thread	1.5	0.03	0.034	0.5	0.5	0	0	0	0	0.5 0	2.4 (34.8) 2.4 (34.8)	2.4 (34.8)	2.4 (34.8)	- 4	4	SCE385A001		V	E
Barbed fitting										SCH385A001									
Pad mount											SCS385A002E								
1/4" - 28 UNF thread	1.5	0.03	0.034	0.5	0	2 (29.0)	2 (29.0)	-	4		SCE385A002E	-	-						
Barbed fitting											SCH385A002E								

How To Order



Options

• Connector size 15, catalogue number 88143581

Installation

• The solenoid valves can be mounted in any position without affecting operation.

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- Can be used for the following functions, depending on how the ports are connected:
- Installation/maintenance instructions are included with each valve.

ASCO



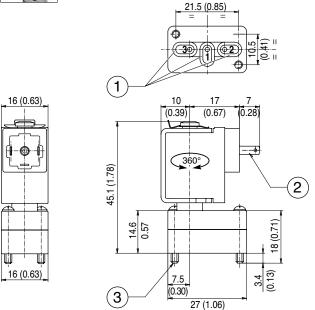
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ROCKER MECHANISM, FLUID ISOLATION VALVES

Dimensions: mm (inches)



Type 01Solenoid with spade terminals (SC)
EN 60529
IP 65



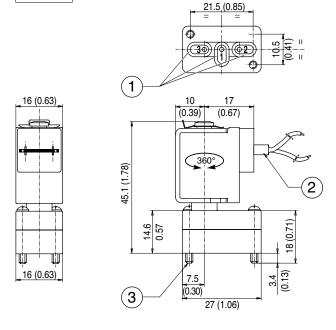
- ① 1 mounting pad seal.
- ② Coil with 2 Faston-type terminals 2.8 x 0.5 (DIN 46340).
- 3 Mounting: 2 screws M2.5 x 18.

Туре	Prefix option	Weight (1) kg		
01	SC	0.04		

(1) Including coil, without connector.



Type 02 Leaded Coil (L) 24 AWG, lead wires: 500 mm (19.7 in) long IP 66



- ① 1 mounting pad seal.
- ② Coil with 24 AWG, lead wires: 500mm (19.7in) long
- 3 Mounting: 2 screws M2.5 x 18.

Туре	Prefix option	Weight (1) kg		
02	L	0.04		

(1) Including coil, without connector.

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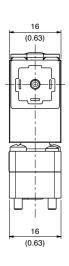
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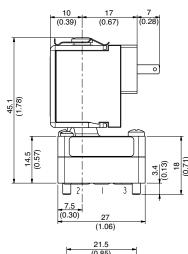
ROCKER MECHANISM, FLUID ISOLATION VALVES

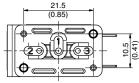
Dimensions: mm (inches)



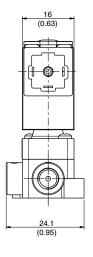
Pad Mount

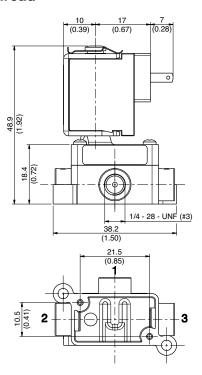






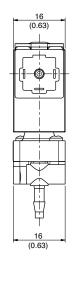
1/4" - 28 UNF thread

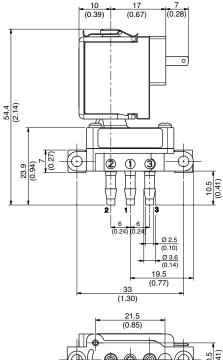


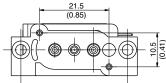


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Barbed Fitting







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Asco

GENERAL SERVICE VALVES, FLAT SPRING SOLENOID

- The 065 Series 2-Way and 3-Way manifold mount valves are designed for analytical and medical applications where high gas flow is required
- Flat spring technology ensures no contamination of gases (no friction)
- The valves have a service life of more than 1 billion cycles when used with inert gases
- Very short response times allow these valves to be used in applications that require precise media control
- Small form factor saves valuable space in portable devices
- Available in a variety of versions for a wide range of applications: threaded connections or pad-mount for installation on multiple manifolds
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
 - Respiratory Therapy
 - Patient Monitoring

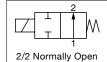
Fluids*

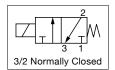
Air, Inert Gases

Power Consumption

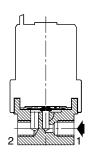
- Compression Therapy (DVT)
- Industrial Air Monitoring

$\left \begin{array}{c} 2 \\ 1 \end{array} \right $
2/2 Normally Closed
2





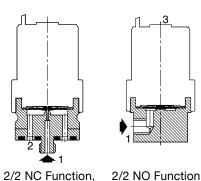




Seal Materials*

FKM (fluoroelastomer),

EPDM, NBR ¹



1 FFKM seals for corrosive fluids available on request

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

Temperature Range

0 °C to 60 °C (0 °F to 140 °F)

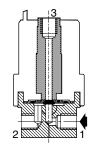
General Valve Information					
Body	Stainless steel, AISI 303 (1.4305)				

bouy	Stall liess steel, Aloi 303 (1.4303)
Others	Stainless steel, FKM
Response Time	< 10ms
Vacuum Rating	-1 bar (-14.5 psi)
Maximum Viscosity	20 cSt (mm ² /s)

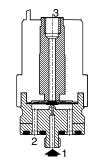
Electrical Characteristics							
Coil Insulation Class	F						
Electrical Safety	IEC 335						
Standard Voltages	6 VDC, 12 VDC, 24 VDC						

2 W at 20 °C

2/2 NC Function







Manifold Mount Body

3/2 NC Function, Manifold Mount Body

Protection	Po	ower F	Rating	l	Ambient		
	Inrush	Inrush Holding Hot/ Cold			Temperature Range	Electrical Connection	Type ¹
VA	VA	VA	W	W	°C (°F)		
IP40 (EN 60529)	-	-	-	2.1/2.1	0 to 60 (0 to 140)	Lead wires (ETFE), length 0.35m (13.8in)	01

¹ Refer to the dimensional drawings on the following page



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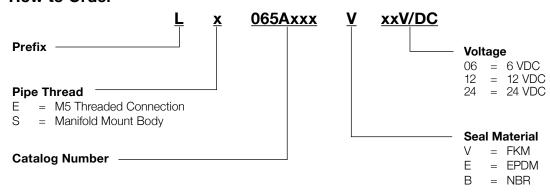
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GENERAL SERVICE VALVES, FLAT SPRING SOLENOID

Specification	ns							
Connection	Orifice Size	Flow Coefficient		Operating Pressure bar (psi)		Power Rating	Catalog Number	
	mm (inches)	Kv (m3/h)	Cv	min. max.		W	threaded	manifold-mount body
2/2 NC - Norn								
	0.6 (0.024)	0.013	0.015	0	7 (101)	2.1	LE065A001V	LS065A001V
M5 1	1.0 (0.040)	0.025	0.029	0	5 (72.5)	2.1	LE065A002V	LS065A002V
IVIS	1.4 (0.055)	0.032	0.037	0	3 (43.5)	2.1	LE065A003V	LS065A003V
	2.0 (0.080)	0.057	0.066	0	1.5 (21.8)	2.1	LE065A004V	LS065A004V
2/2 NO - Norn	nally Open							
	0.6 (0.024)	0.013	0.015	0	7 (101)	2.1	LE065A005V	-
N45	1.0 (0.040)	0.025	0.029	0	5 (72.5)	2.1	LE065A006V	-
M5	1.4 (0.055)	0.032	0.037	0	3 (43.5)	2.1	LE065A007V	-
	2.0 (0.080)	0.057	0.066	0	1.5 (21.8)	2.1	LE065A008V	-
3/2 NC - Norm	nally Closed							
	0.6 (0.024)	0.013	0.015	0	7 (101)	2.1	LE065A009V	LS065A009V
NAC 1	1.0 (0.040)	0.025	0.029	0	5 (72.5)	2.1	LE065A010V	LS065A010V
M5 1	1.4 (0.055)	0.032	0.037	0	3 (43.5)	2.1	LE065A011V	LS065A011V
	2.0 (0.080)	0.057	0.066	0	1.5 (21.8)	2.1	LE065A012V	LS065A012V

¹ External thread with pad-mount body

How to Order



Options

- Cleaned for oxygen service
- Other pipe connections are available
- 0.7 W rated coil available on request

Installation

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

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GENERAL SERVICE VALVES, FLAT SPRING SOLENOID

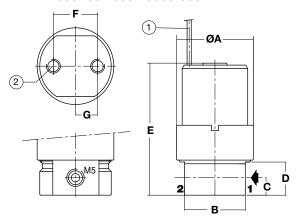
Dimensions: mm (inches)

2-Way Flat Spring Solenoid

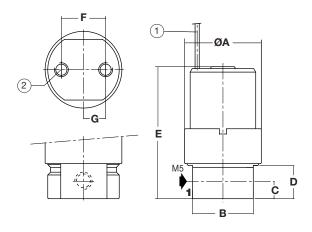


Prefix "L" solenoid Leaded Coil IP40

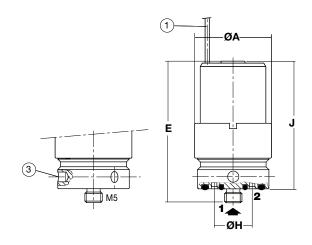
LE065A001V/002V/003V/004V



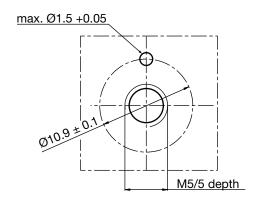
LE065A005V/006V/007V/008V



LS065A001V/002V/003V/004V



Mounting pad



- 1) 2 electrical supply wires, length: 0.35m (13.8in)
- (2) 2 mounting holes ØM4, depth: 6mm (0.24in)
- (3) Mounting with hook spanner wrench DIN 1810B

Туре	Prefix Option	Catalog Number	Α	В	С	D	E	F	G	Н	J
01 L	LE065A001V/002V/003V/004V	22 (0.87)	17.4 (0.69)	5 (0.20)	9.5 (0.37)	38 (1.50)	12.7 (0.50)	6.35 (0.25)	-	-	
	L	LS065A001V/002V/003V/004V	22 (0.87)	-	-	-	41 (1.61)	-	-	10.9 (0.43)	37 (1.46)
		LE065A005V/006V/007V/008V	22 (0.87)	17.4 (0.69)	5 (0.20)	9.5 (0.37)	38 (1.50)	12.7 (0.50)	6.35 (0.25)	-	-

¹ Including leads, length: 0.35m (13.8in)

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GENERAL SERVICE VALVES, FLAT SPRING SOLENOID

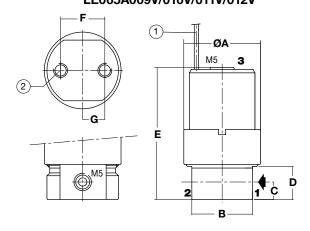
Dimensions: mm (inches)

3-Way Flat Spring Solenoid

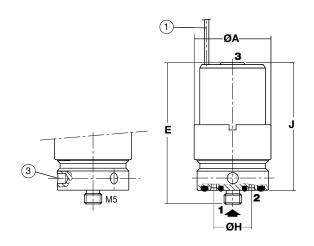


Prefix "L" solenoid Leaded Coil IP40

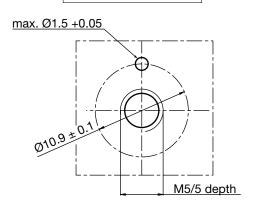
LE065A009V/010V/011V/012V



LS065A009V/010V/011V/012V



Mounting pad



- 1) 2 electrical supply wires, length: 0.35m (13.8in)
- (2) 2 mounting holes ØM4, depth: 6mm (0.24in)
- (3) Mounting with hook spanner wrench DIN 1810B

Туре	Prefix Option	Catalog Number	Α	В	С	D	E	F	G	н	J
01 L		LE065A009V/010V/011V/012V	22 (0.87)	17.4 (0.69)	5 (0.20)	9.5 (0.37)	38 (1.50)	12.7 (0.50)	6.35 (0.25)	-	-
	L	LS065A009V/010V/011V/012V	22 (0.87)	-	-	-	41 (1.61)	-	-	10.9 (0.43)	37 (1.46)

¹ Including leads, length: 0.35m (13.8in)



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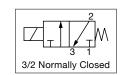
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GENERAL SERVICE VALVES, MINIATURE SOLENOID

- Series 076 solenoid valves are designed for use with air and inert gases and can also be used to pilot other valves or cylinders.
- Compact architecture and low power consumption of only 0.9 W make them ideal for portable medical devices.
- Option for side-by-side mounting on complex manifold solutions is ideal for control of multiple flow paths in portable or small envelope applications.
- Meets all relevant CE directives, and is RoHS compliant.
- Typical applications include:
 - Respiratory Therapy
 - Patient Simulators
 - Pilot Valves
 - Wide Range of Other General Service Needs

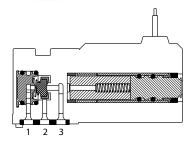




Fluids	Temperature Range	Seal Materials
Air or Inert Gas, non-lubricated	-5 °C to 50 °C (23 °F to 122 °F)	FKM

NOTE: Additional constructions and options are available including alternate elastomers and orifice sizes. Minimum quantities apply.

General Valve Information					
Body	PA / PBT				
Others	Acetal, Brass, Nickel, Stainless Steel				
Response Time	< 10ms				



3/2 NC Pad Mount Body

Electrical Characteristics	
Standard Voltages*	5 VDC, 12 VDC, 24 VDC
Power Consumption	0.9 W

^{*} Other voltages on request

NOTE: The solenoid valves are designed for continuous operation within the maximum ambient temperature limits.

Insulation Class	Coil Insulation	Protection	Ambient Temperature Range	Electrical Connection	
	°C (°F)	VA	°C (°F)		
F	155 (311)	IP40	-5 to 50 (23 to 122)	24 AWG Lead wires, 0.3m (12.0in) long, PTFE coated	

Spe	Specifications										
	Orifice Size Flow Coefficient		fficient	Operating Pressure bar (psi)		Dower Poting					
	mm (iı	nches)		Flow Coe	incient	min.	max.	Power Rating	Voltage	Catalog Number	
1	2	2	3	Kv (m ³ /h)	Cv	111111.	gases, liquids	W			
3/2	3/2 NC - Normally Closed										
									24 VDC	R076A101L0V00F1	
0.7 (0.7 (0.028) 0.8 (0.032)		8 (0.032) 0.011 0.009	-0.9 (-13)	6.9 (100)	0.9	12 VDC	R076A101L0V00F3			
									5 VDC	R076A101L0V00D1	

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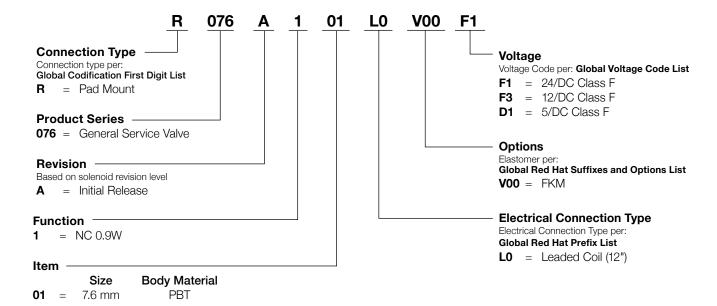
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GENERAL SERVICE VALVES, MINIATURE SOLENOID

How to Order

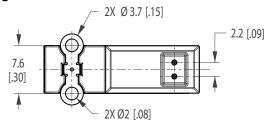


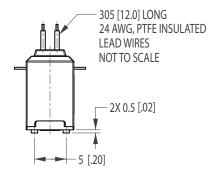
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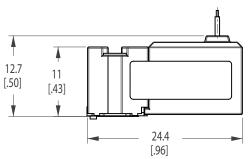
GENERAL SERVICE VALVES, MINIATURE SOLENOID

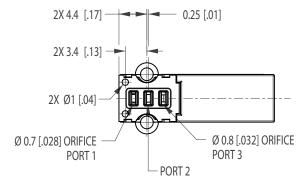
Dimensions: mm (inches)

3-Way Pad Mount Solenoid Valve

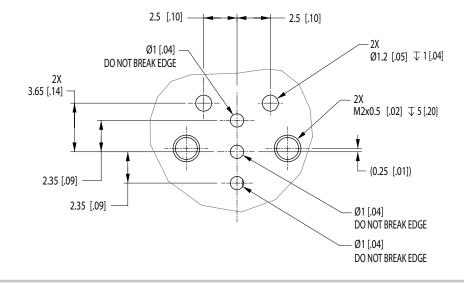








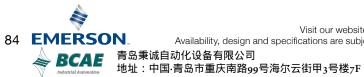
Manifold Interface



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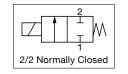
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GENERAL SERVICE VALVES

- Series 090 solenoid valves are designed for use with air and inert gases
- Flow to size ratio ideal for portable oxygen therapy applications
- Compact light-weight architecture and low power consumption make them ideal for portable medical devices
- Exceptional service lifetime over 50 million cycles that increases OEM instrument reliability
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
 - Oxygen Delivery
 - Compression Therapy
 - Gas Analyzers



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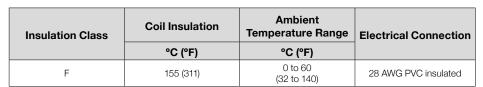
Fluids*	Temperature Range	Seal Materials*		
Air or Inert Gas ¹	0 °C to 60 °C (32 °F to 140 °F)	FKM		

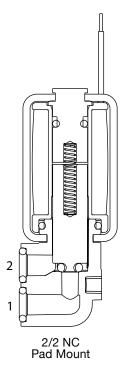
NOTE: Additional constructions and options are available including alternate elastomers and orifice sizes. Minimum quantities apply.

General Valve Information					
Body	PBT				
Others	Stainless Steel				
Response Time	< 15ms				
Vacuum Rating	-0.9 bar (13 psi)				

Electrical Characteristics					
Duty Cycle	Intermittent, must use spike and hold noted below				
Spike and Hold	Spike at nominal voltage for 500 – 5000 ms max. Hold at 50% of nominal voltage.				
Connector	Lead wires				
Connector Specification	28 AWG PVC insulated				
Standard Voltages*	12 VDC, 24 VDC				
Power Rating	4.3 W Inrush, 1.0 W Hold				

^{*} Other voltages on request





Specifications										
Connection	Orifice Size	Flo Coeff		Operatin	g Pressure bar (psi)	Power Rating		Rating		Catalog Number
Connection		Obellicient		•	max.	(W)		Catalog Number		
	mm (inches)	Kv (m3/h)	Cv	min.	Air, inert gas	Inrush	Hold			
2/2 NC - Normally Closed										
Pad Mount, PBT (F)	2.4 (0.093)	0.183	0.072	-0.9 (-13)	1.4 (20)	4.3	1.0	R090x220LAV00Fx		

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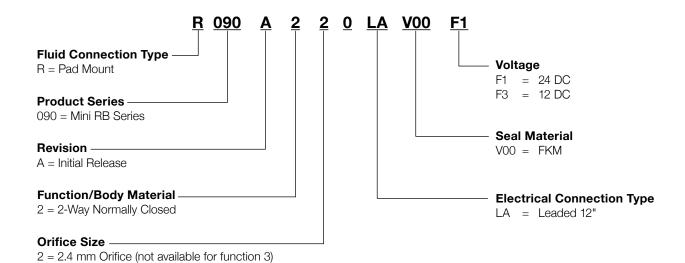
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¹ filtered at 10µm
* Ensure that the compatibility of the materials in contact with the fluids is verified.

GENERAL SERVICE VALVES

How to Order



Options

- Other seal materials available on request
- Other voltages and electrical connections available
- Oxygen service

Installation

• The solenoid valves can be mounted in any position without affecting operation.

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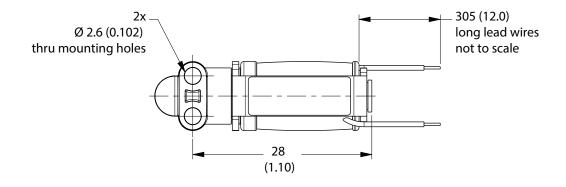
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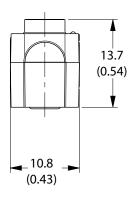
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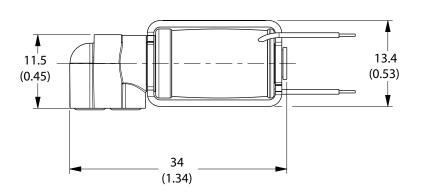
GENERAL SERVICE VALVES

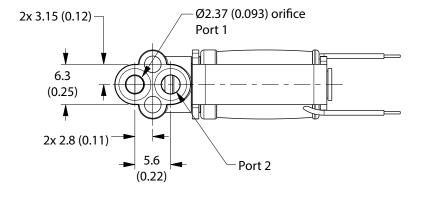
Dimensions: mm (inches)

2-Way and Pad Mount Solenoid Valve









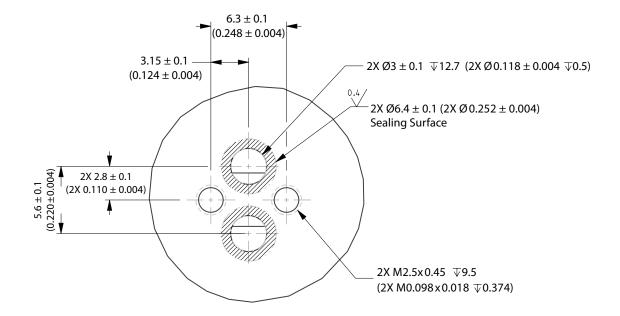
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GENERAL SERVICE VALVES

Dimensions: mm (inches)

Mounting Pattern for Pad Mount Solenoid Valve



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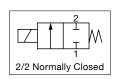
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GENERAL SERVICE VALVE, COMPACT 2-WAY SOLENOID

- Direct acting solenoid valve for use with air and inert gases
- Manifold mount construction that is suitable for a wide variety of gas application
- Exceptionally long service lifetime ensures maximum reliability
- High-flow design is ideal for quickly inflating / deflating therapeutic air bladders in support surface applications
- Typical applications include
 - Hospital Beds
 - Therapeutic Support Surfaces
 - Endoscopy Drying Systems
 - Deep Vein Thrombosis (DVT)



0	SERIE			
4				
	-	0	960 96	1

Fluids*	Temperature Range	Seal Materials*
Air, inert gases	0°C to 55°C (32°F to 131°F)	NBR

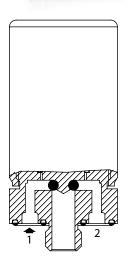
Ensure that the compatibility of the materials in contact with the fluids is verified.

General Valve Information			
Body	Stainless Steel		

Electrical Characteristics					
Coil Insulation Class	В				
Duty Cycle	Intermittent, must use spike and hold noted below				
Spike and Hold	Spike at nominal voltage for 500 - 5000 ms max. Hold at 50% of nominal voltage.				
Connector	Lead Wires				
Connector Specification	28 AWG PVC Insulated				
Electrical Enclosure Protection	IP40				
Standard Voltages*	12 VDC				

^{*} Other voltages on request.

Electrical	Powe	er Ratings	Ambient Temperature Range		
Connection	Inrush	Holding	, , , , , , , , , , , , , , , , , , ,		
	W	W	°C (°F)		
Lead Wires	7.6	1.9	0 to 55 (32 to 131)		



2/2 Normally Closed

Specification	Specifications								
O-maratian	Orifice Size	Flow Coefficient		•	ng Pressure ar (psi)	Power R	ating (W)	October N. subseque	
Connection	mm (inches)	Kv (m ³ /h)	Cv	min.	max.	Inrush	Hold	Catalog Number	
2/2 NC - Norm	nally Closed								
1/4-28 UNF Stud Manifold Mount	4.0 (0.16)	2.621	0.387	0 bar (0 psi)	0.34 bar (5 psi)	7.6	1.9	R096A001L0N00V3	

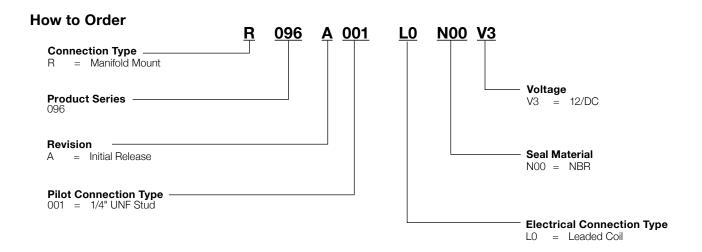
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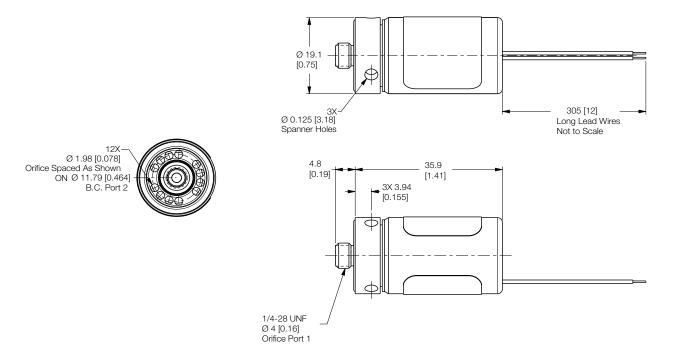
青岛秉诚自动化设备有限公司

地址:中国·青岛市重庆南路99号海尔云街甲3号楼7F

GENERAL SERVICE VALVE, COMPACT 2-WAY SOLENOID



Dimensions: mm (inches)

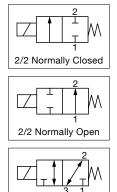


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L123 / L257 / L323

GENERAL SERVICE VALVES

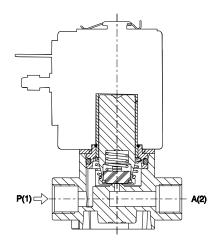
- Direct acting solenoid valve.
- Suitable to shut off liquid and gaseous fluids; suitable for low pressure steam and applications in sterilising autoclaves (verify the compatibility of materials with fluids in contact).
- Typical applications include
 - Dental equipment
 - Steam sterilizers
 - Bio-medical analyzers
 - Low pressure steam



3/2 Universal



General Valve Information				
Body	PPS			
Seals*	FKM			
Internal Components	Stainless Steel Stainless Steel and PPS			
Seat	PPS			
Core Tube	Stainless Steel			
Shading coil	Copper			
Fluids	Liquids or gases			
Fluid temperature	0°C +130°C			
Differential pressure	see "Specifications" [1 bar = 100 kPa]			
Response time	~ 20ms			
Max. Viscosity	37 cSt (mm²/s)			



^{*} Ensure that the compatibility of the materials in contact with the fluids is verified

Electrical Characteristics							
		ZA10A (UL class F - for UL cl.H: ZA34 (E153691))	ZA10B (UL class F - for UL cl.H: ZA34 (E153691))	ZA10G (UL class F - for UL cl.H: ZA34 (E153691))			
Continous duty		ED 100%	ED 100%	ED 100%			
Coil Insulation Class		F (155°C) on request class H (180°C)	F (155°C)	F (155°C) on request class H (180°C)			
Connector		DIN 46340 - 3 pole connector (EN175301-803)	DIN 46340 - 3 pole connector (EN175301-803)	DIN 46340 - 3 pole connector (EN175301-803)			
Encapsula material	tion	PPS (polyphenilsulfure) fiberglass reinforced	PET (polyethylene- terephtalate) fiberglass reinforced	PPS (polyphenilsulfure) fiberglass reinforced)			
Electrical Enclosure Protection		IP67 (EN60529) with plug connector	IP65 (EN60529) with plug connector	IP67 (EN60529) with plug connector			
	DC	12-24 V (+10% -5%)	24V (+10% -5%) (UL)	12-24 V (+10% -5%)			
Standard Voltages* AC (120V/50Hz - 110V/50Hz (120V/60Hz) - 230V/50Hz (+10% -15%)		(120V/60Hz) - 230V/50Hz (+10% -15%)					

^{*} other voltages and frequencies on request

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GENERAL SERVICE VALVES

Specification	ons																
				Ope	eratin	g Pres	sure, l	bar	Po	wer Rating	,						
Pipe	Orifice Size		ow icient			m	ax.		10	(W)	,	Catalog N	Catalog Number		Note		
Connection				min.	Gases		Liqu	Liquids		AC (VA)		Threaded Body		Materials*	Note		
	mm	Kv (m ³ /h)	Cv		AC	DC	AC	DC	Inrush	Holding			Coil				
2/2 NC - Nori	mally Clo	sed															
	1.6	0.09	0.10		10	10	10	10									
G1/8	2.3	0.15	0.17		10	10	10	10]			L123V01			1,2,3		
	3.2	0.25	0.29		10	4	10	4									
	1.6	0.09	0.10		10	10	10	10					1				
Barbed ports	2.3	0.15	0.17		10	10	10	0 10			L123V02			2,3			
	3.2	0.25	0.29	0	10	4	10	4	23	23 14 9	9		ZA10A	FKM			
	1.6	0.09	0.10		10	10	10	10									
Barbed ports with ring nut	2.3	0.15	0.17		10	10	10	10]					L123V03			2,3,4
maring nat	3.2	0.25	0.29		10	4	10	4									
Davida and an austra	2.3	0.15	0.17		10	10	10	10	1				L132V04]		0.5	
Barbed ports	3.2	0.25	0.29	29	10	4	10	4				L132V04			3,5		
2/2 NO - Nori	mally Ope	en															
G1/8		0.40	0.01									L257V02			1, 3,5		
Barbed ports	3	0.18	8 0.21	3	3	3	3	23	14	9	L257V01	ZA10A	10A	2,3			
Barbed ports with ring nut		0.15	0.17									L257V03			2,3,4		
G1/4		0.33	0.38		2.5		2.5		23	14		1,057)/04	1.057\/04	L257V04	ZA10A		1,3
G1/4	4.2	0.55	0.56	0		2.5		2.5			10	L237 V04	ZA10B	FKM	1,0		
Barbed ports	7.2	0.26	0.30		2.5		2.5		23	14		L257V05	ZA10A		3		
Barbea ports		0.20	0.00			2.5		2.5			10	L201 V00	ZA10B				
Barbed ports	2.5	0.14	0.16		5	5	5	5	23	14	9) L257V06	ZA10A		2,3		
	3	0.18	0.21		3	3	3	3							,-		
3/2 U - Unive	rsal																
G1/8					4		4		23	14		L323V01G	ZA10A		100		
G1/8		0.2	0.23			4		4			12	L323VUIG	ZA10G		1,2,3		
Barbed ports		0.2	0.23		4		4		23	14		1,000,400	ZA10A	1	2,3		
Darbeu ports	, , ,					4		4			12	L323V02G	ZA10G	EVA	2,3		
Barbed ports	2.3	0.12	0.14	0	4		4		23	14		L323V03G	ZA10A	FKM	004		
with ring nut		0.12	0.14			4		4			12	_ L323VU3G	ZA10G		2,3,4		
Barbed ports		0.2	0.23		4		4		23	14		L323V04G	ZA10A		0.0		
Darbed ports		0.2	0.23			4		4			12	L323VU4G	ZA10G	ZA10G	2,3		

^{*} Sealings: FKM = Fluoro-carbon elastomer

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¹ Maximum driving torque of the pipe fittings for thread connections = 2Nm 2 Only for use with steam, consider following values: PSmax 2.8 bar (max fluid temperature 130°)

³ The pressure values shown in the table refer to the potential of the valve: they can be lower depending on the connection system used

⁴ Maximum driving torque of ring nut 1.2Nm

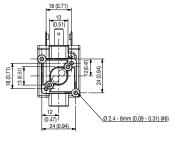
⁵ Only for use with steam, consider following values: PSmax 2.8 bar (max fluid temperature 130°)

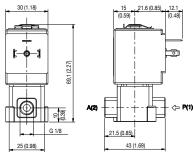
L123/L257/L323

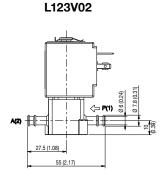
GENERAL SERVICE VALVES

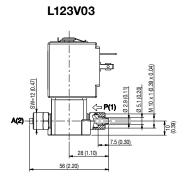
Dimensions: mm (inches)

L123V01

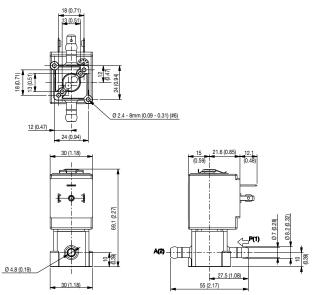








L123 V04



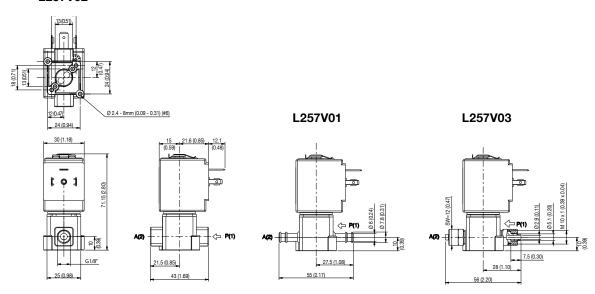
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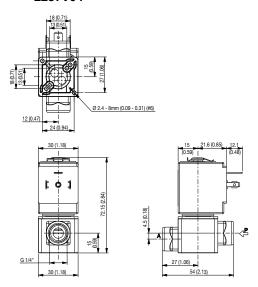
GENERAL SERVICE VALVES

Dimensions: mm (inches)

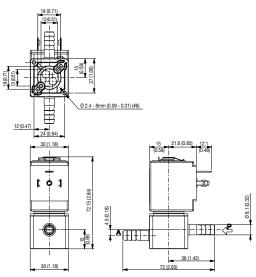
L257V02



L257V04



L257V05



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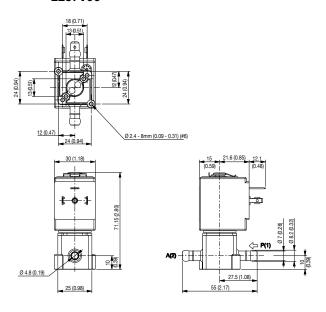
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L123/L257/L323

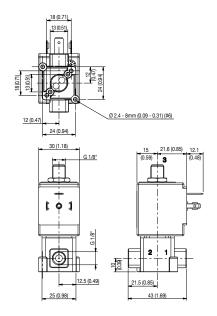
GENERAL SERVICE VALVES

Dimensions: mm (inches)

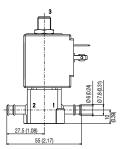
L257V06



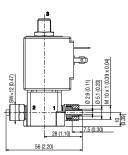
L323V01G



L323V02G



L323V03G



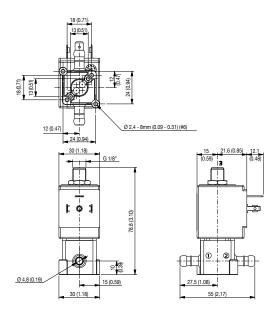


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GENERAL SERVICE VALVES

Dimensions: mm (inches)

L323-V04G



Spare Part Kits

L123-V01/V02/V03/V04

Kit description	Kit P.N.	Consisting of:
Core kit	G3139401	Core
Core return spring kit	G3022401	N.10 core return spring
O-Ring guide assembly kit	GU2428000017	N.10 O-Ring guide assembly
Guide assembly kit	G31487	Guide assembly Coil clip
Coil	ZA10A	Coil

L257-V01/V02/V03

Kit description	Kit P.N.	Consisting of:
Core kit	G3138301	Core return spring Core O-Ring guide assembly Pusher Sealing disc return spring Sealing disc
Core return spring kit	G290513-001	N°.10 Core return spring
O-Ring guide assembly kit	GU2428000015	N°.10 OR guide assembly
Guide assembly kit	G31488	Guide assembly Coil clip
Coil	ZA10A	Coil

GENERAL SERVICE VALVES



L257-V04 / L257-V05

Kit description	Kit P.N.	Consisting of:
Core kit	G3138301	Core return spring Core O-Ring guide assembly Pusher Sealing disc return spring Sealing disc
Core return spring kit	G290513-001	N°.10 Core return spring
O-Ring guide assembly kit	GU2428000015	N°. 10 OR guide assembly
Guide assembly kit	G31488	Guide assembly Coil clip
Coil	ZA10A ZA10B	Coil

L257-V06

Kit description	Kit P.N.	Consisting of:
Core kit	G3138301	Core return spring Core O-Ring guide assembly Pusher Sealing disc return spring Sealing disc
Core return spring kit	G290513-001	N°.10 Core return spring
O-Ring guide assembly kit	GU2428000015	N°. 10 OR guide assembly
Guide assembly kit	G31488	Guide assembly Coil clip
Coil	ZA10A	Coil

L323-V01G/V02G/V03G/V04G

Kit description	Kit P.N.	Consisting of:
Core kit	G3065101	Core
Core return spring kit	G3022401	N.10 core return spring
O-Ring guide assembly kit	GU2428000017	N.10 O-Ring guide assembly
Guide assembly	290564-001R	Guide assembly
Coil	ZA10A ZA10G	Coil

Installation

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

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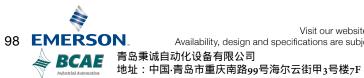
- When using any sealant for fittings, please check its chemical compatibility with body material (PPS).
- In case of disassembling for usual maintenance, the fixing screws of the guide assembly have to be tightened with 0.6÷0.7 Nm torque.



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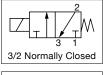


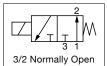
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GENERAL SERVICE VALVES, MINIATURE SOLENOID

- The 188 Series solenoid valves are designed for use with air and inert gases, and can also be used to pilot other valves or cylinders
- Compact architecture and low power consumption of only 1.3 W make them ideal for portable medical devices
- · Also available in a 1 W version for increased versatility
- LED visual indicator and electrical protection circuitry are standard features
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
 - Respiratory Therapy
 - Dental
 - Anesthesia Delivery
 - Industrial Gas Analyzers





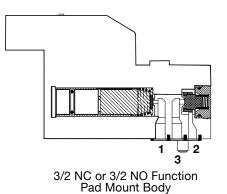


Fluids	Temperature Range	Seal Materials
Air or Inert Gas,	5 °C to 50 °C	NBR (Nitrile)
non-lubricated ¹	(41 °F to 122 °F)	FKM

¹ filtered at 25 μm

NOTE: Additional constructions and options are available including alternate elastomers and orifice sizes. Minimum quantities apply.

General Valve Information		
Body	PA (polyamide) MXD6	
Others	Stainless steel, nickel-plated steel, synthetic material, aluminum	
Response Time	< 10ms	
Options	Oxygen clean available 300 Series Stainless Steel Body	



Electrical Characteristics		
Standard Voltages*	5 VDC, 12 VDC, 24 VDC (-15%/+10%)	
Power Consumption	1 - 1.3 W	

^{*} Other voltages on request

NOTE: The solenoid valves are designed for continuous operation within the maximum ambient temperature limits.

Insulation Class	Coil Insulation	Protection	Ambient Temperature Range	Electrical Connection
	°C (°F)	VA	°C (°F)	
F	155 (311)	IP40	5 to 50 (41 to 122)	Connector with two 0.5mm² lead wires + built-in LED and electrical protection or lead wires, 0.5m (19.7in) long

Asco

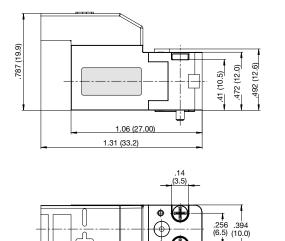
GENERAL SERVICE VALVES, MINIATURE SOLENOID

Specificat	ions									
Orifice Size mm (inches)		Flow Coefficient			Operating Pressure bar (psi)		Type of Electrical	Catalog Number		
				min.	max.	Rating	Connection*	Catalog Nulliber		
1 -> 2	2 -> 3	Kv (m ³ /h)	Cv	111111.	gases, liquids	W				
3/2 NC - No	rmally Close	d								
							01	18801003		
						1.3	02	18801076		
0.5 (0.020)	0.7 (0.028)	0.006	0.007	0	8 (116)	1.3	03	18801074		
							04	18801078		
						1	05	18801072		
							01	18801081		
						1.3	02	18801082		
0.8 (0.031)	0.8 (0.031)	0.007	0.008	0	4 (58)	1.3	03	18801083		
							04	18801084		
						1	05	18801085		
						1.3	01	18801086		
							02	18801087		
1.0 (0.040)	1.0 (0.040)	0.011	0.013	0	2.5 (36)		03	18801088		
							04	18801089		
						1	05	18801090		
3/2 NO - No	rmally Open									
							01	18801063		
			0.007	0		4.0	02	18801077		
0.5 (0.020)	0.5 (0.020)	0.006			6 (87)	1.3	03	18801075		
							04	18801079		
						1	05	18801073		
							01	18801091		
						10	02	18801092		
0.8 (0.031)	0.8 (0.031)	0.007	0.008	0	3 (43.5)	1.3	03	18801093		
			3.000				04	18801094		
						1	05	18801095		
							01	18801096		
						1.0	02	18801097		
1.0 (0.040)	1.0 (0.040)	0.011	0.013 0	0.013	0	0	1.5 (21.8)	1.3	03	18801098
								04	18801099	
						1	05	18801100		

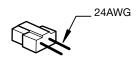
^{*} Type 01, 02, 03, 04 with LED and electrical protection 01 = horizontal, width 5.08mm (0.2in) 02 = vertical, width 5.08mm (0.2in)

03 = horizontal, width 2.54mm (0.1in) 04 = vertical, width 2.54mm (0.1in) 05 = cable ends 0.5m long (19.7in), 0.25mm²

Dimensions: mm (inches)



NOTE: The connectors to be ordered separately. Includes one connector with two wires.



Length	Catalog Number
20" (0.5m)	88118801
59" (1.5m)	88118802
118" (3m)	88118803

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.18 (4.5)

_.33 (8.3)

-Ø 0.075 [1.90 (2x)] M7 x .35

Mounting Screws (supplied with valve)

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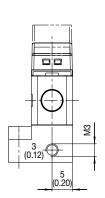
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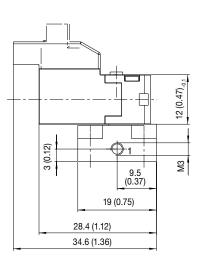
GENERAL SERVICE VALVES, MINIATURE SOLENOID

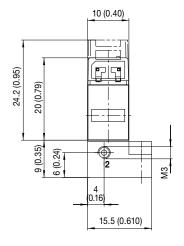
Dimensions: mm (inches)

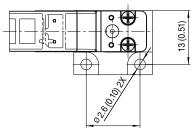
Valve Mounted on Single Subbase



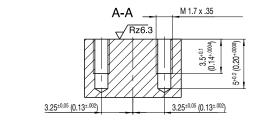
Number	Subbase	Weight
Valves	Catalog Number	kg
	35300101	

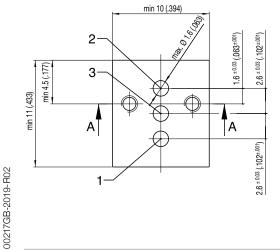






Manifold Interface



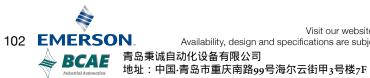


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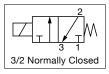
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GENERAL SERVICE VALVES, MINIATURE SOLENOID WITH LATCHING COIL

- The 188 Series latching coil solenoid valves are designed for use with air and inert gases, and can also be used to pilot other valves or cylinders
- The benefit of the latching coil is that no power consumption is needed to hold the valve in the open position
- Compact architecture and low power consumption of only 1.3 W make them ideal for portable medical devices
- Also available in a 1 W version for increased versatility
- LED visual indicator and electrical protection circuitry are standard features
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
 - Respiratory Therapy
 - Dental
 - Anesthesia Delivery
 - Industrial Gas Analyzers







Fluids	Temperature Range	Seal Materials
Air or Inert Gas,	F °C to FO °C (41 °F to 100 °F)	NBR (Nitrile)
non-lubricated1	5 °C to 50 °C (41 °F to 122 °F)	FKM

¹ filtered at 25µm

General Valve Information*		
Body	PA (polyamide) MXD6	
Others	Stainless steel, nickel-plated steel, synthetic material, aluminum	
Response Time	< 10ms	
Options	Oxygen clean available 300 Series Stainless Steel Body	

^{*} Other materials on request

Electrical Characteristics		
Standard Voltages*	ges* 5 VDC, 12 VDC, 24 VDC (-15%/+10%)	
Power Consumption	1 - 1.3 W	

^{*} Other voltages on request

Insulation Class	Coil Insulation	Protection	Ambient Temperature Range	Electrical Connection				
	°C (°F)	VA	°C (°F)					
F	155 (311)	IP40	5 to 50 (41 to 122)	Connector with two 0.5mm² lead wires + built-in LED and electrical protection or lead wires, 0.5m (19.7in) long				

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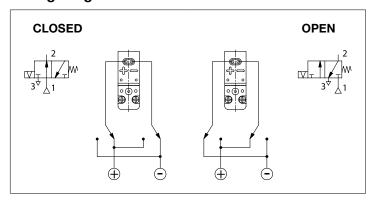
青岛秉诚自动化设备有限公司 地址:中国·青岛市重庆南路99号海尔云街甲3号楼7F

GENERAL SERVICE VALVES, MINIATURE SOLENOID WITH LATCHING COIL

Specificat	ions								
Orifice Size		Flow Coefficient			g Pressure r (psi)	Power	Type of		
					max.	Rating	Electrical Connection*	Catalog Number	
1 -> 2	2> 3	Kv (m ³ /h) Cv		min.	gases, liquids	w	Connection		
3/2 NC/NO									
				0			01	18801101	
0.5 (0.020)	0.7 (0.028)		0.008			1.3	02	18801102	
		0.007			7 (101)		03	18801103	
							04	18801104	
						1	05	18801105	
	0.8 (0.031)	0.009	0.010	0			01	18801106	
					3 (43.5)	1.3	02	18801107	
0.8 (0.031)						1.3	03	18801108	
							04	18801109	
						1	05	18801110	
•			1 0.013	0		•	01	18801111	
1.0 (0.040)						1.3	02	18801112	
	1.0 (0.040)	0.011			1 (14.5)	1.0	03	18801113	
							04	18801114	
						1	05	18801115	

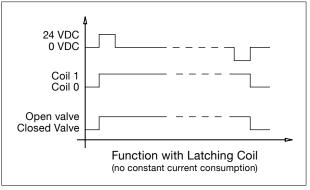
^{*} Type 01, 02, 03, 04 with LED and electrical protection 01 = horizontal, width 5.08mm (0.2in)

Wiring Diagram



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Functional Diagram



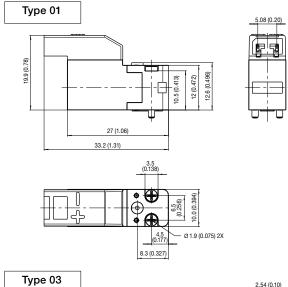
传真:(86-532)585-10-365

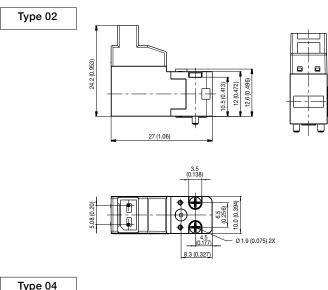
 $^{02 = \}text{vertical}$, width 5.08 mm (0.2 in)

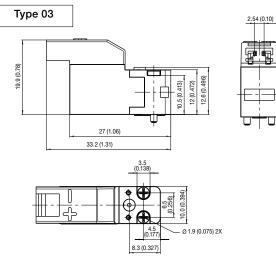
^{03 =} horizontal, width 2.54mm (0.1in) 04 = vertical, width 2.54mm (0.1in) 05 = cable ends 0.5m long (19.7in), 0.25mm²

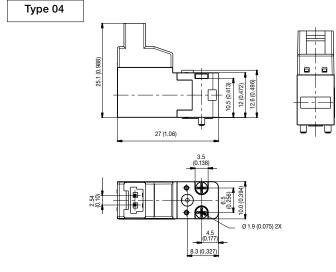
GENERAL SERVICE VALVES, MINIATURE SOLENOID WITH LATCHING COIL

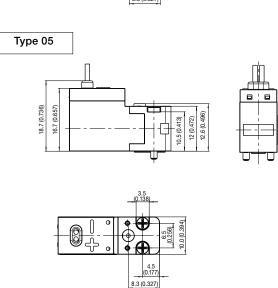
Dimensions: mm (inches)

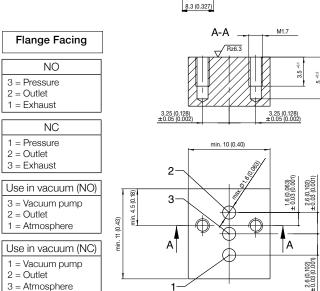












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服务热线:4006-918-365

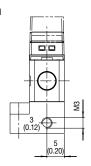
网址:http://www.asco.store

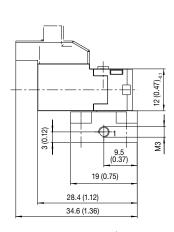
105

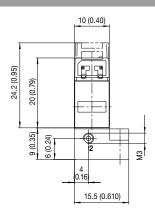
Dimensions: mm (inches)

Solenoid Valve Mounted on **Single Subbase**

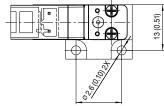
Number	Subbase Catalog	Weight		
of Valves	Number	kg		
1	35300101	0.015		



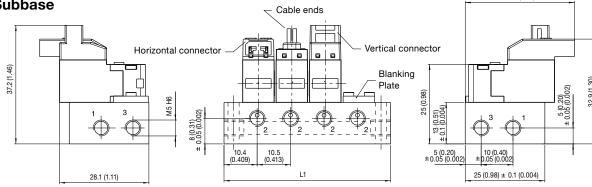




34.3 (1.35)

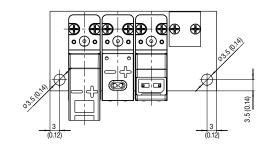


Solenoid Valve Mounted on Multiple Subbase



Number	Subbase Catalog	Length					
of Valves	Number*	L1	L2				
2	35300102	33.5 (1.32)	27.5 1.08)				
3	35300103	44 (1.73)	38 (1.50)				
4	35300104	54.5 (2.15)	48.5 (1.91)				
5	35300105	65 (2.56)	59 (2.32)				
6	35300106	75.5 (2.97)	69.5 (2.74)				
7	35300107	86 (3.39)	80 (3.15)				
8	35300108	96.5 (3.80)	90.5 (3.56)				
9	35300109	107 (4.21)	101 (3.98)				
10	35300110	117.5 (4.63)	111.5 (4.39)				

A: Blanking plate, cat. number 88135305



NOTE:

The connectors must be ordered separately, please indicate the quantity and one of the following codes: Connector, 2 wires:

Distance between contacts 5.08mm (0.2in)

- cat. no.: 88118801 Length 0.5m (19.7in)
- cat. no.: 88118802 Length 1.5m (59.1in)
- Length 3m (118in) - cat. no.: 88118803

Distance between contacts 2.54mm (0.1in)

- cat. no.: 88118806 cat. no.: 88118807 Length 0.5m (19.7in)
- Length 1.5m (59.1in) - Length 3m (118in) - cat. no.: 88118808

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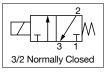
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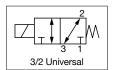
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GENERAL SERVICE VALVES, 3-WAY UNIVERSAL

- 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









Fluids*	Temperature Range	Seal Materials*
Liquids and gases	-10°C to 90°C (14°F to 194°F) (NBR) 0°C to 90°C (32°F to 194°F) (FKM)	NBR or FKM

^{*} Ensure that the compatibility of the materials in contact with the fluids is verified.

General Valve Information								
Body	Brass							
Internal components	Brass, PEI (Polyetherimide) and stainless steel							
Seat	1 ↔ 2: Brass - 1 ↔ 3: PEI							
Core tube	Brass							
Maximum allowable pressure (PS)	16 bar (232 psi)							
Response Time	<10ms							
Max viscosity	3°E (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%)							

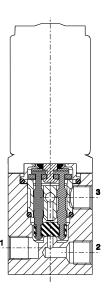
^{*} leaded coil on request

NOTE:

01075GB-2019-R01

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







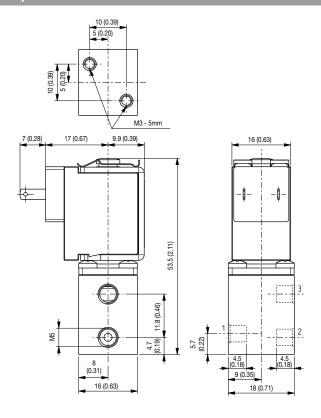
网址:http://www.asco.store

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GENERAL SERVICE VALVES, 3-WAY UNIVERSAL

Specifications																																	
Port size	Orifice Size mm (inches)	Operating Pressure, bar (psi)						Danier Alexandian					Voltage																				
			Δp max			Kv	Cv	Power Absorption			Caalings	Catalan Numban	voltage																				
ISO UNI		Δp min	Gases		Liquids		(m ³ /h)	(m ³ /h)	AC (VA)		DC	Sealings	Catalog Number	12V	24V																		
4534			AC	DC	AC	DC			Inrush	Holding	(W)			DC	DC																		
	1.2 (0.047)			6 (87)		6 (87)					2.5		H226A556S0A00	F3	F1																		
				8 (116)		8 (116)	0.04	0.05			4		H226A557S0A00	F3	F1																		
				6 (87)		6 (87)					2.5	NBR	H226A559S0A00	-	F1																		
				8 (116)		8 (116)					4		H226A560S0A00	-	F1																		
M5		0	-	6 (87)	-	6 (87)			-	-			H226A566S0A00	-	F1																		
	2 (0.079)												6 (87)		6 (87)						FKM	H226A562S0A00	-	F1
				2.5 (36)	2.5 (36)				4	NDD	H226A558S0A00	-	F1																				
																	1.5 (22)		1.5 (22)	0.08	0.09				NBR	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.

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.

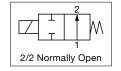
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GENERAL SERVICE VALVES, 2-WAY NORMALLY OPEN

- 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





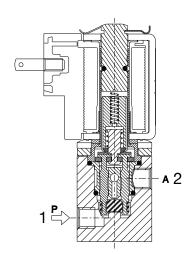
Fluids*	Temperature Range	Seal Materials*		
Liquids and gases	-10°C +90°C (14°F to 194°F)	NBR		

^{*} Ensure that the compatibility of the materials in contact with the fluids is verified.

General Valve Information							
Body	Brass						
Sealing	NBR						
Internal components	Brass, PEI (Polyetherimide) and stainless steel						
Seat	PEI						
Core tube	Brass						
Maximum allowable pressure (PS)	16 bar (232 psi)						
Response Time	<10ms						
Fluid temperature	-10°C +90°C (14°F to 194°F)						
Max viscosity	3°E (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 connection*	DIN 46340							
Electrical Enclosure Protection	IP 65 (EN 60529) with micro plug connector							
Voltages DC	12 VDC, 24 VDC (-5%/+10%)							

^{*} leaded coil on request



Specifications															
Port size	Orifice	Ope	ratin	g Pressu	re, ba	ır (psi)		Flow Coefficient Power al			rption		Catalog Number	Voltage	
ISO-	Size			Δp n	nax					•		Seals			
UNI	(mm)	Δp min	G	ases	Lic	quids	Kv (m3/h)	Cv	AC.				Valve	12V	24V
4534			AC	DC	AC	DC	(111-711)		Inrush				vaive	DC	DC
M5	1 (0.039)	0		10 (145)		10 (145)	0.04	0.05			4	NBR	H226A554S0A00 H226A554S0A00	F3 -	- F1
CIVI	2 (0.079)	U	-	3.5 (51)	-	3.5 (51)	0.10	0.12	-	-	4	NDK	H226A555S0A00 H226A555S0A00	F3 -	- F1

NOTE

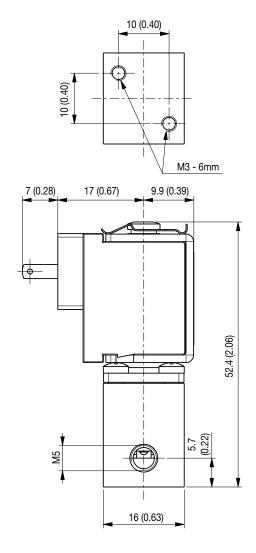
These micro-solenoid valves are not suitable for stagnating media subject to vaporization which deposit solid, calcareous, incrusting residues or similar. Seal: NBR = Nitrile Butadiene Rubber

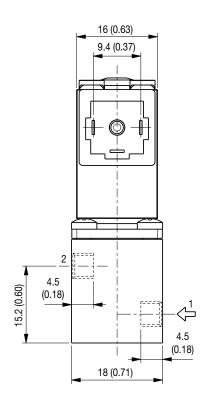
1 - For reference, F1 = 24 VDC; F3 = 12 VDC

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GENERAL SERVICE VALVES, 2-WAY NORMALLY OPEN

Dimensions: mm (inches)





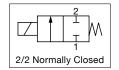
Mounting

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

传真:(86-532)585-10-365

GENERAL SERVICE 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

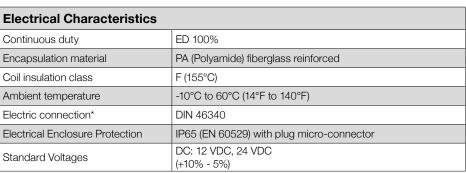




Fluids*	Temperature Range	Seal Materials*			
Liquids and gases	0°C to 130°C (32°F to 266°F) (FKM) 0°C to 140°C (32°F to 284°F) (FFKM) -10°C to 90°C (14°F to 194°F) (HNBR)	FKM or FFKM or HNBR			

^{*} Ensure that the compatibility of the materials in contact with the fluids is verified.

General Valve Information								
Body	Brass							
Internal components	Stainless Steel							
Maximum allowable pressure (PS)	16 bar (232 psi)							
Response Time	<10ms							
Max viscosity	3°E (22 cStokes or mm ² /s)							
Guide assembly	Stainless Steel							



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NOTE:

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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





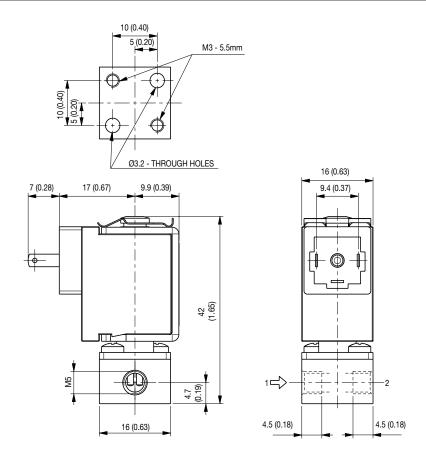
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leaded coil on request

ASCO™ MINIATURE SOLENOID VALVES GENERAL SERVICE VALVES, 2-WAY NORMALLY CLOSED - HIGH PRESSURE

Specifications																		
	Ope	eratin	g Press	ure ba	r (psi)								V-14					
Con-	Orifice Size			Δр	max		Kv		Po	wer Rating	,			Voit	age			
nection	mm (inches)	Δp min	G	ases	Lic	quids	(m ³ /h)	Cv	AC	(VA)	DC	Sealings	Catalog Number	401/ 00	24/20			
	(AC	DC	AC	DC			Inrush	Holding	(W)			12V DC	24V DC			
				0.5 (7.25)		0.5 (7.25)					0.5		H226A540S0A00	F3	-			
							10		10					0.5	FKM	H226A542S0A00	-	F1
	1.1 (0.043)			(145)		(145)	0.04 0.05	i		2.5	I I KIVI	H226A541S0A00	F3	F1				
M5		0	_	14		14			_	_	4		H226A543S0A00	F3	F1			
IVIO				(203)	_	(203)			_		4	HNBR	H226A564S0A00	-	F1			
	0		1.5 (21.8) (21.8)		2.5	FKM	H226A549S0A00	-	F1									
	(0.079)	2 079)		4		4	0.10	0.12			4		H226A551S0A00	F3	F1			
				(58)		(58)					4	FFKM	H226A552S0X00	-	F1			

Dimensions: mm (inches)



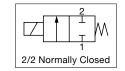
Mounting

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

Asco

GENERAL SERVICE 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





Fluids*	Temperature Range	Seal Materials*		
Liquids and gases	-10°C +90°C (14°F to 194°F)	NBR		

^{*} Ensure that the compatibility of the materials in contact with the fluids is verified.

General Valve Information								
Body	Brass							
Internal components	Stainless steel							
Seat	Brass							
Core tube	Stainless steel							
Maximum allowable pressure (PS)	16 bar (232 psi)							
Max viscosity	3°E (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 ¹	DIN 46340							
Protection degree	IP 65 (EN 60529) with micro plug connector							
Voltages2	12 VDC, 24 VDC (-5%/+10%)							

¹ leaded coil on request

² other voltages on request.

Specif	Specifications											
Port	Orifice	Operating		Flow Coe	fficient	Power Rating				Series and Type	Volt	tage
size ISO-UNI	Size	bar (psi)	Kv (m ³ /h)	AC.		(VA)	DC.	Seals	Valve	12V DC	24V DC
4534	(mm)	Min	Max	KV (IIIº/II)	Cv	Inrush	Holding	(W)		vaive	124 DC	24 V DC
M5	1.6	0.5 (7.25)	5 (72.5)	0.04	0.05	-	-	4	NBR	H226A546S0A00 H226A546S0A00 H226A547S0A00 H226A547S0A00	F3 - F3 -	- F1 - F1
		0.2 (2.90)	3 (43.5)					2.5		H226A545S0A00 H226A545S0A00	F3 -	- F1

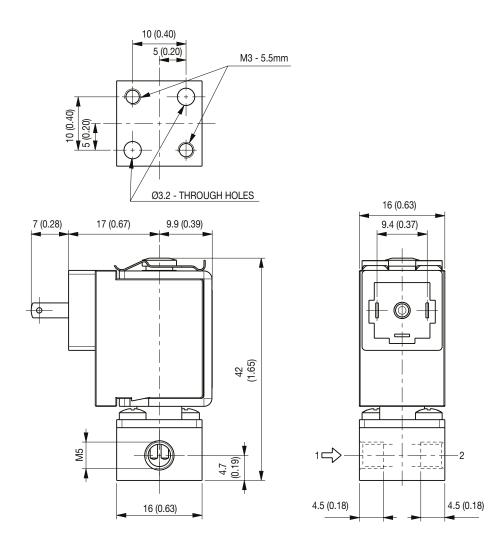
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服务热线:4006-918-365

GENERAL SERVICE VALVES, 2-WAY NORMALLY CLOSED - PROPORTIONAL INLINE

Dimensions: mm (inches)



Installation

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

NOTE:

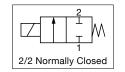
- These micro-solenoid valves are not suitable for stagnating media subject to vaporization which deposit solid, calcareous, incrusting residues or similar.
- Seal: NBR = Nitrile butylene elastomer. Other options available on request
- It is necessary to keep the current circulating in the coil constant, 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.

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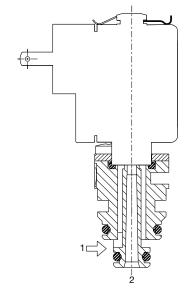
传真:(86-532)585-10-365

GENERAL SERVICE 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







Fluids*	Temperature Range	Seal Materials*		
Liquids and gases	-10°C to 100°C (14°F to 212°F)	EPDM		

^{*} Ensure that the compatibility of the materials in contact with the fluids is verified.

General Valve Information							
Body	POM						
Internal components	Stainless steel						
Seat	POM						
Core tube	Stainless steel						
Maximum allowable pressure	16 bar (232 psi)						
Response Time	<10ms						
Max viscosity	3°E (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)							
Electric connection*	DIN 46340							
Electrical Enclosure Protection	IP 65 (EN 60529) with micro plug connector							
Standard Voltages	12 VDC, 24 VDC (-5%/+10%)							

^{*} leaded coil on request

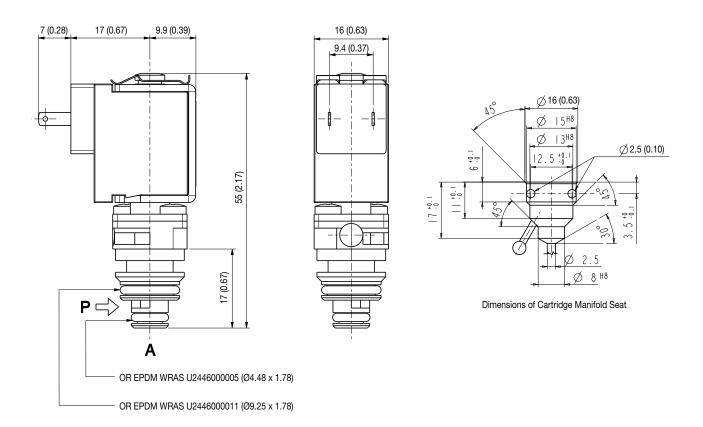
Specifica	Specifications														
		Oper	rating F	Pressu	re bar	(psi)	Flow Co	efficient	Pov	Power Rating			Catalog Number	Voltage	
	Orifice size			Ap m	ax.				FUV	wer Hating					
Connection	SIZE	Ар	Gas	ses	Liqu	uids	Kv	Cv	AC	(VA)	1)		Valve	12V DC 24V	24V DC
	mm (inches)	min	AC	DC	AC	DC	(m ³ /h)		Inrush	Holding	W				
-	2 (0.079)	0	1	6 (87)	-	6 (87)	0.10	0.12	-	-	4	EPDM	P226A550S0A00	F3	F1

01079GB-2019-R01

服务热线:4006-918-365

GENERAL SERVICE VALVES, 2-WAY NORMALLY CLOSED - CARTRIDGE

Dimensions: mm (inches)



Installation

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

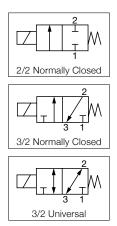
NOTE:

- 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

传真:(86-532)585-10-365

GENERAL SERVICE VALVES

- The 411 Series solenoid valves are designed for use with air and inert gases
- Manifold mount construction that is suitable for a wide variety of gas applications
- Compact light-weight architecture and low power consumption make them ideal for portable medical devices
- Exceptional service lifetime over 100 million cycles that increases OEM instrument reliability
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
 - Respiratory Therapy
 - Patient Monitoring
 - Compression Therapy (DVT)
 - Robotic Pharmacy Dispensing





Fluids	Temperature Range	Seal Materials		
Air or Inert Gas, non-lubricated1	-23 °C to 60 °C (-10 °F to 140 °F)	FKM, NBR, EDPM		

¹ filtered at 10 µm

NOTE: Additional constructions and options are available including alternate elastomers and orifice sizes. Minimum quantities apply.

General Valve Information*						
Body PBT, 300 Series stainless steel						
Others	PBT, 400 Series stainless steel, 300 Series stainless steel					
Response Time	< 10ms					
Vacuum Rating -0.9 bar (-13 psi)						

^{*} Other materials on request

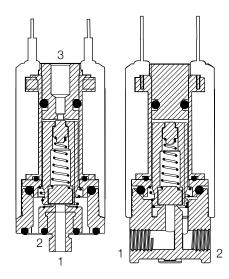
Electrical Characteristics							
Standard Voltages* 5 VDC, 6 VDC, 12 VDC, 24 VDC							
Power Consumption	0.65 to 2.0 W						

^{*} Other voltages on request

NOTE: The solenoid valves are designed for continuous operation within the maximum ambient temperature limits.

地址:中国·青岛市重庆南路99号海尔云街甲3号楼7F

Insulation Class	Coil Insulation	Protection	Ambient Temperature Range	Electrical Connection		
	°C (°F)	VA	°C (°F)			
В	130 (266)	-	-23 to 60 (-10 to 140)	0.11in Spade, 24 AWG Lead Wire		



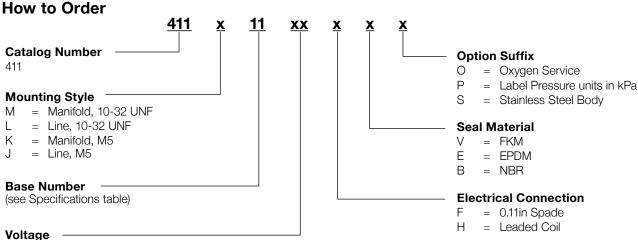
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GENERAL SERVICE VALVES

Specificat	ions									
Orifice Size			Flow Co	efficient		-	g Pressure (psi)	Power		
mm (i	nches)	Kv (r	n³/h)	Cv		min.	max.		Catalog Number	
Port 1	Port 3	Port 1	Port 3	Port 1	Port 3	111111.	max.	W		
2/2 NC - Norm	ally Closed									
0.76 (0.030)	-	0.022	-	0.013	-	-0.9 (-13)	6.9 (100)	0.65	411x11xxxx	
1.4 (0.055)	-	0.066	-	0.040	-	-0.9 (-13)	6.9 (100)	2.0	411x21xxxx	
2.0 (0.080)	-	0.116	-	0.071	-	-0.9 (-13)	2.1 (30)	2.0	411x31xxxx	
3/2 NC - Norm	ally Closed		L	L	L					
0.76 (0.030)	0.63 (0.025)	0.022	0.010	0.013	0.006	-0.9 (-13)	6.9 (100)	0.65	411x12xxxx	
1.4 (0.055)	1.3 (0.050)	0.066	0.055	0.040	0.033	-0.9 (-13)	6.9 (100)	2.0	411x22xxxx	
2.0 (0.080)	1.3 (0.050)	0.116	0.055	0.071	0.033	-0.9 (-13)	2.1 (30)	2.0	411x32xxxx	
3/2 U - Univers	sal									
0.76 (0.030)	0.63 (0.025)	0.022	0.010	0.013	0.006	-0.9 (-13)	6.9 (100)	0.65	411x13xxHx	
1.4 (0.055)	1.3 (0.050)	0.066	0.055	0.040	0.033	-0.9 (-13)	3.4 (50)	2.0	411x23xxHx	
2.0 (0.080)	1.3 (0.050)	0.116	0.055	0.071	0.033	-0.9 (-13)	2.1 (30)	2.0	411x33xxHx	



voitage

12 = 12 VDC 24 = 24 VDC 05 = 5 VDC 06 = 6 VDC

NOTE: Oxygen Service valves available with FKM or EPDM Seals only. UL / CSA available with 300 Series Stainless Steel Body. 3-Way Universal operation only available with leaded coil electrical connection (H).

Ordering Examples:

411M1124FV = 2-way normally closed manifold mount valve with 0.76mm (0.030in) orifice, 24 VDC coil rating at 0.65 Watts, .110 spade connection, FKM seals

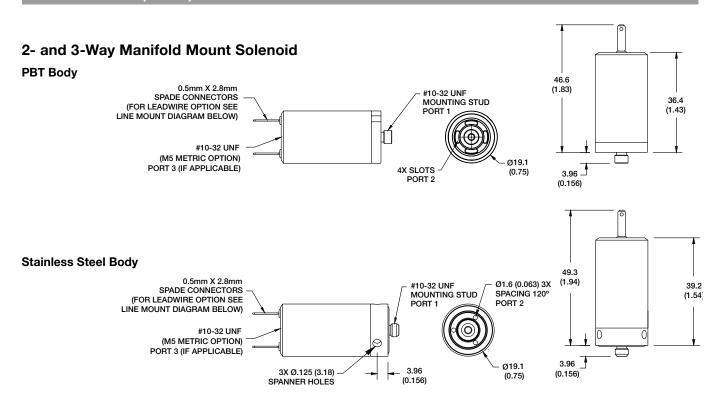
411L3212HV = 3-way normally closed line mount valve with 2.0mm (0.080in) orifice, 12 VDC coil rating at 2.0 Watts, leaded coil, FKM seals
411K1124HVOS = 2-way normally closed manifold mount and M5 stud with 0.76mm (0.030in) orifice, 24 VDC coil rating at 0.65 Watts, leaded coil, FKM seals, clean for Oxygen use and Stainless Steel body

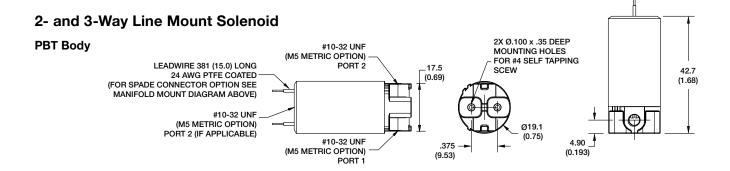
ASCO

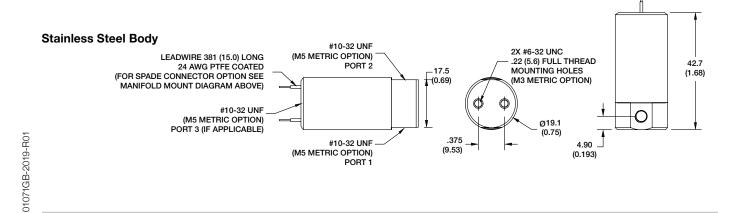
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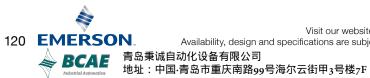
Dimensions: mm (inches)











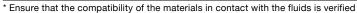
ASCO 传真:(86-532)585-10-365 服务热线:4006-918-365 网址:http://www.asco.store Email: sales@bechinas.com

GENERAL SERVICE VALVES

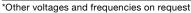
- Direct acting solenoid valve, suitable for vacuum at port "P" (PA PP = 1 bar)
- Suitable to shut off liquid and gaseous fluids (verify the compatibility
 of fluid with materials in contact), particularly suitable in the
 applications in sterilising autoclaves.
- 2/2 Normally Open

- Typical applications include:
 - Oil burners
 - Air compressor
 - Water steam sterilizers,
 - Gas oil burners
 - Naphta burners

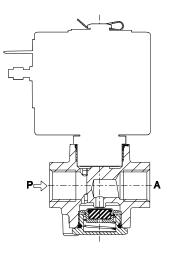
General Valve Information						
Body Brass or chemically nickel coated (Ni-P) brass						
Seals*	FKM, Stainless steel or CR70N					
Internal Components	Stainless Steel					
Seat	Brass or Stainless Steel					
Core Tube	Stainless Steel					
Shading coil	Copper					
Fluids	Liquids or gases					
Fluid temperature	-10°C +170°C (stainless steel) 0°C +130°C (FKM) -10°C +90°C (CR70N)					
Differential pressure	see "Specifications" [1 bar = 100 kPa]					
Response time	~ 20-30ms					
Max. Viscosity	37 cSt (mm ² /s)					



Electrical Characteristics								
		ZA130A	ZA10A (UL class F - for UL cl.H: ZA34 (E153691))					
Continous duty		ED 100%	ED 100%					
Coil Insulation Class		F (140°C), on request class H (165°C) - UL	F (155°C) on request class H (180°C)					
Connector		DIN 46340 - 3 pole connector (DIN 43650)	DIN 46340 - 3 pole connector (DIN 43650)					
Encapsulation material		PET (polyethylene terephtalate) fiberglass reinforced	PPS (polyphenilsulfure) fiberglass reinforced)					
Electrical Enclosure Protec	ction	Molded IP65 (EN 60529)	IP67 (EN60529) with plug connector					
	DC	12-24 V (+10% -5%)	12-24 V (+10% -5%)					
Standard Voltages *	AC	24V/50Hz - 110V/50Hz (120V/60Hz) - 230V/50Hz (+10% -15%)	24V/50Hz - 110V/50Hz (120V/60Hz) - 230V/50Hz (+10% -15%)					







Specifica	tions															
Orifice		ce Flow		Operating Pressure bar			Power Rating			Catalog Number						
Pipe Connection	Size						m	ax.		(W)		Throadod	Rody	Body Material	Seat Materials	Sealing Materials
Connection				min.	Gases	Liquids	AC	(VA)	DC (W)	Tilleaded	Threaded Body		waterials	waterials		
	mm	Kv	Cv		Gases	Liquius	Inrush	Holding	DC (W)		Coil					
0.44	3	0.22	0.25		-	30			24 13	L256M02	Z130A	Brass	Stainless Steel	Stainless Steel		
G 1/4	3.2	0.3	0.35	0	12	10	44	24		1.050/04			Brass	FKM		
	4.5	0.45	0.52		5	4				L256V01			brass	FKIVI		
G 1/4	3.2	0.3	0.35	0	4	4	23	14	9	L256V12 (*)	ZA10A	Chemically nickel coated (Ni- P) brass	Stainless Steel	FKM		
	4.5	0.45	0.52		2.5	2.5				L256V12		Brass				
G1/8	1.6	0.08	0.09	0	25	22	23	14	9	L256N07	ZA10A	Brass	Brass	CR70N		
1/4 NPT	3.2	0.3	0.35	0	12	10	44	24	13	L256V09	Z130A	Brass	Brass	FKM		

(*) Only for use with steam, consider following values: max pressure 2.8 bar (max fluid temperature 130° C)



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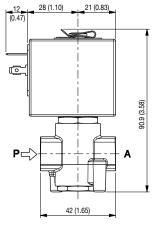
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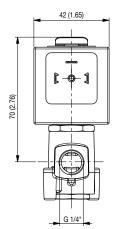
GENERAL SERVICE VALVES

Dimensions: mm (inches)

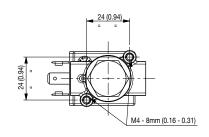
L256V01 / L256MO2

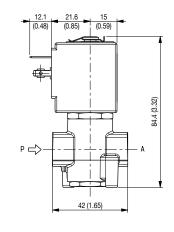
24 (0.94) M4 - 8mm (0.16 - 0.31)

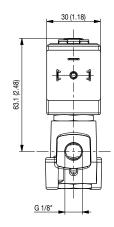




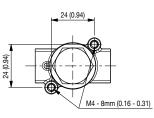
L256N07

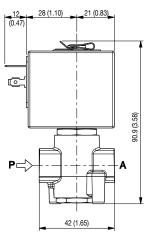


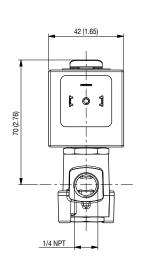




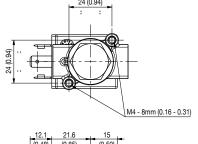
L256V09

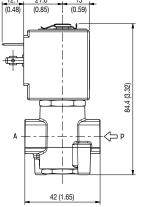


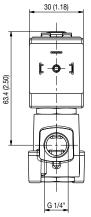




L256V12 / L256V14







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GENERAL SERVICE VALVES

Spare Part Kits

L256V01 / L256MO2

Kit description	Model	Diameter	Kit P.N.	Consisting of:
	L256M02		G3093201	Sealing group
Core sealing assembly kit	L256V01	Ø 3.2	G3093101	Sealing return spring
	L256V01	Ø 4.5	G3093104	OR cap
OR guide assembly kit			GU2424000017	N°.10 OR guide assembly
OR cap kit			GU2424000155	N°.10 OR cap
Coil			Z130A	Coil

L256N07

Kit description	Kit P.N.	Consisting of:
Sealing assembly kit	G3093103	Sealing group Sealing return spring OR cap
OR guide assembly kit	GU2445000017	N°.10 OR guide assembly
OR cap kit	GU2445000155	N°.10 OR cap
Coil	ZA10A	Coil

L256V09

Kit description	Kit P.N.	Consisting of:
Core sealing assembly kit	G3093101	Sealing group Sealing return spring OR cap
OR guide assembly kit	GU2424000017	N°.10 OR guide assembly
OR cap kit	GU2424000155	N°.10 OR cap
Coil	Z130A	Coil

L256V12 / L256V14

Kit description	Kit P.N.	Consisting of:
Sealing assembly kit	G3124301	Sealing group Sealing return spring OR cap
OR guide assembly kit	GU2424000017	N°.10 OR guide assembly
OR cap kit	GU2424000155	N°.10 OR cap
Coil	ZA10A	Coil

Installation

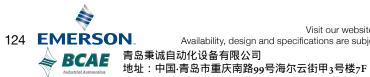
• Solenoid valve can be mounted in any position; vertical with coil upwards preferred.



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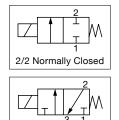


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GENERAL SERVICE VALVES

- The RB Series solenoid valves are designed for use with air and inert gases
- Highly customizable construction that is suitable for a wide variety of gas applications
- Compact light-weight architecture and low power consumption make them ideal for portable medical devices
- Exceptional service lifetime over 100 million cycles that increases OEM instrument reliability
- · Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
 - Respiratory Therapy
 - Patient Monitoring
 - Compression Therapy (DVT)
 - Robotic Pharmacy Dispensing



3/2 Normally Closed



Fluids*	Temperature Range	Seal Materials*
Air or loort Cool	0 90 to 60 90 (00 95 to 140 95)	FKM
Air or Inert Gas ¹	0 °C to 60 °C (32 °F to 140 °F)	NBR

¹ filtered at 10µm

NOTE: Additional constructions and options are available including alternate elastomers and orifice sizes. Minimum quantities apply.

General Valve Information		
Body	PBT, brass	
Others	Stainless steel	
Response Time	< 10ms	
Vacuum Rating	-0.9 bar (13 psi)	

Electrical Characteristics		
Standard Voltages*	5 VDC, 12 VDC, 24 VDC	
Power Consumption	0.5 to 2.0 W	

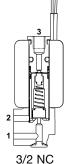
^{*} Other voltages on request

NOTE: The solenoid valves are designed for continuous operation within the maximum ambient temperature limits

Insulation Class	Coil Protection		Ambient Temperature Range	Electrical Connection
	°C (°F)	VA	°C (°F)	
В	130 (266)	IP30 (EN 60529)	0 to 60 (32 to 140)	Lead wires 26 AWG or circuit board mount



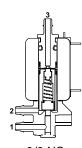
2/2 NC Manifold Mount



3/2 NC Pad Mount



2/2 NC Line Mount



3/2 NC Push-in Hose Connection

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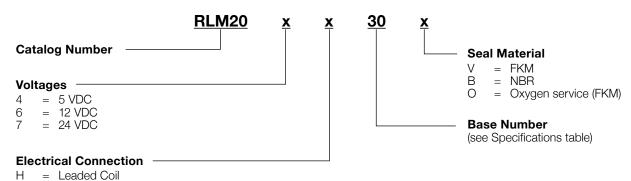
^{*} Ensure that the compatibility of the materials in contact with the fluids is verified.

GENERAL SERVICE VALVES

Specifications	Orifice Size	Flo			ng Pressure ar (psi)	Power	Catalog Number	
Connection		Coeffi	ICIENT	min.	max.	Rating		
	mm (inches)	Kv (m ³ /h)	Cv	111111.	air, inert gas	W		
2/2 NC - Normally (Closed							
	0.8 (0.031)	0.018	0.011	-0.9 (-13)	3.4 (50)	0.5	RLM20xx30x	
	0.8 (0.031)	0.018	0.011	-0.9 (-13)	6.9 (100)	2.0	RHM20xx30x	
10-32 UNF Stud Manifold	1.30 (0.051)	0.066	0.030	-0.9 (-13)	1.0 (15)	0.5	RLM20xx50x	
Mount, Brass (M)	1.30 (0.051)	0.058	0.033	-0.9 (-13)	3.4 (50)	1.0	RMM20xx50x	
	1.30 (0.051)	0.058	0.033	-0.9 (-13)	6.9 (100)	2.0	RHM20xx50x	
	2.00 (0.079)	0.097	0.056	-0.9 (-13)	1.0 (15)	2.0	RHM20xx80x	
	0.8 (0.031)	0.018	0.011	-0.9 (-13)	3.4 (50)	0.5	RLL20xx30x	
10-32 UNF Female Line Mount, Brass (L)	0.8 (0.031)	0.018	0.011	-0.9 (-13)	6.9 (100)	2.0	RHL20xx30x	
	Female Line 1.30 (0.051)		0.030	-0.9 (-13)	1.0 (15)	0.5	RLL20xx50x	
	1.30 (0.051)	0.058	0.033	-0.9 (-13)	3.4 (50)	1.0	RML20xx50x	
	1.30 (0.051)	0.058	0.033	-0.9 (-13)	6.9 (100)	2.0	RHL20xx50x	
	2.00 (0.079)	0.097	0.056	-0.9 (-13)	1.0 (15)	2.0	RHL20xx80x	
	0.8 (0.031)	0.026	0.010	-0.9 (-13)	1.0 (15)	0.5	RLB20xx30x	
	0.8 (0.031)	0.018	0.011	-0.9 (-13)	3.4 (50)	1.0	RMB20xx30x	
3.17mm (0.125in)	0.8 (0.031)	0.018	0.011	-0.9 (-13)	6.9 (100)	2.0	RHB20xx30x	
Push-in Hose Connecton	1.30 (0.051)	0.079	0.031	-0.9 (-13)	0.7 (10)	0.5	RLB20xx50x	
PBT (B)	1.30 (0.051)	0.058	0.033	-0.9 (-13)	2.4 (35)	1.0	RMB20xx50x	
	1.30 (0.051)	0.058	0.033	-0.9 (-13)	4.8 (70)	2.0	RHB20xx50x	
	2.00 (0.079)	0.097	0.056	-0.9 (-13)	1.7 (25)	2.0	RHB20xx80x	
	0.8 (0.031)	0.026	0.010	-0.9 (-13)	1.0 (15)	0.5	RLF20xx30x	
	0.8 (0.031)	0.018	0.011	-0.9 (-13)	3.4 (50)	1.0	RMF20xx30x	
	0.8 (0.031)	0.018	0.011	-0.9 (-13)	6.9 (100)	2.0	RHF20xx30x	
Pad Mount, PBT (F)	1.30 (0.051)	0.079	0.031	-0.9 (-13)	0.7 (10)	0.5	RLF20xx50x	
	1.30 (0.051)	0.058	0.033	-0.9 (-13)	2.4 (35)	1.0	RMF20xx50x	
	1.30 (0.051)	0.058	0.033	-0.9 (-13)	4.8 (70)	2.0	RHF20xx50x	
	2.00 (0.079)	0.097	0.056	-0.9 (-13)	1.7 (25)	2.0	RHF20xx80x	

How to Order

= PCB pins (circuit board)



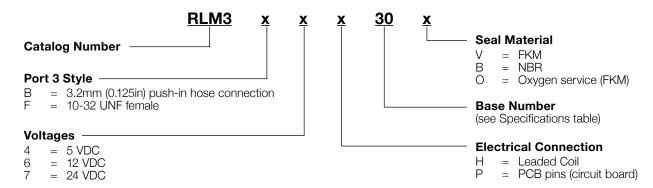
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GENERAL SERVICE VALVES

Connection	Orifice Size mm (inches)			Flow Co	efficient		Operating Pressure bar (psi)		Power	
			Kv (m ³ /h)		C	Cv		max.	Coil	Catalog Number
	Port 1	Port 3	Port 1	Port 3	Port 1	Port 3	min.	air, inert gas	W	
3/2 NC - Norma	lly Closed									
	0.8 (0.031)	1.0 (0.040)	0.018	0.031	0.011	0.018	-0.9 (-13)	3.4 (50)	0.5	RLM3xxx34x
	0.8 (0.031)	1.0 (0.040)	0.018	0.031	0.011	0.018	-0.9 (-13)	6.9 (100)	2.0	RHM3xxx34x
10-32 UNF Stud Manifold Mount, Brass	1.30 (0.051)	1.3 (0.051)	0.066	0.052	0.030	0.024	-0.9 (-13)	1.0 (15)	0.5	RLM3xxx55x
(M)	1.30 (0.051)	1.3 (0.051)	0.058	0.050	0.033	0.029	-0.9 (-13)	3.4 (50)	1.0	RMM3xxx55x
	1.30 (0.051)	1.3 (0.051)	0.058	0.050	0.033	0.029	-0.9 (-13)	6.9 (100)	2.0	RHM3xxx55x
	2.00 (0.079)	1.3 (0.051)	0.097	0.050	0.056	0.029	-0.9 (-13)	1.7 (25)	2.0	RHM3xxx85x
	0.8 (0.031)	1.0 (0.040)	0.018	0.031	0.011	0.018	-0.9 (-13)	3.4 (50)	0.5	RLL3xxx34x
	0.8 (0.031)	1.0 (0.040)	0.018	0.031	0.011	0.018	-0.9 (-13)	6.9 (100)	2.0	RHL3xxx34x
10-32 UNF Female	1.30 (0.051)	1.3 (0.051)	0.066	0.052	0.030	0.024	-0.9 (-13)	1.0 (15)	0.5	RLL3xxx55x
Line Mount, Brass (L)	1.30 (0.051)	1.3 (0.051)	0.058	0.050	0.033	0.029	-0.9 (-13)	3.4 (50)	1.0	RML3xxx55x
	1.30 (0.051)	1.3 (0.051)	0.058	0.050	0.033	0.029	-0.9 (-13)	6.9 (100)	2.0	RHL3xxx55x
	2.00 (0.079)	1.3 (0.051)	0.097	0.050	0.056	0.029	-0.9 (-13)	1.7 (25)	2.0	RHL3xxx85x
	0.8 (0.031)	1.0 (0.040)	0.026	0.033	0.010	0.013	-0.9 (-13)	1.0 (15)	0.5	RLB3xxx34x
	0.8 (0.031)	1.0 (0.040)	0.018	0.031	0.011	0.018	-0.9 (-13)	3.4 (50)	1.0	RMB3xxx34x
3.17mm (0.125in)	0.8 (0.031)	1.0 (0.040)	0.018	0.031	0.011	0.018	-0.9 (-13)	6.9 (100)	2.0	RHB3xxx34x
Push-in Hose	1.30 (0.051)	1.3 (0.051)	0.079	0.059	0.031	0.023	-0.9 (-13)	0.7 (10)	0.5	RLB3xxx55x
Connecton PBT (B)	1.30 (0.051)	1.3 (0.051)	0.058	0.050	0.033	0.029	-0.9 (-13)	2.4 (35)	1.0	RMB3xxx55x
	1.30 (0.051)	1.3 (0.051)	0.058	0.050	0.033	0.029	-0.9 (-13)	4.8 (70)	2.0	RHB3xxx55x
	2.00 (0.079)	1.3 (0.051)	0.097	0.050	0.056	0.029	-0.9 (-13)	1.7 (25)	2.0	RHB3xxx85x
	0.8 (0.031)	1.0 (0.040)	0.026	0.033	0.010	0.013	-0.9 (-13)	1.0 (15)	0.5	RLF3xxx34x
	0.8 (0.031)	1.0 (0.040)	0.018	0.031	0.011	0.018	-0.9 (-13)	3.4 (50)	1.0	RMF3xxx34x
	0.8 (0.031)	1.0 (0.040)	0.018	0.031	0.011	0.018	-0.9 (-13)	6.9 (100)	2.0	RHF3xxx34x
Pad Mount, PBT (F)	1.30 (0.051)	1.3 (0.051)	0.079	0.059	0.031	0.023	-0.9 (-13)	0.7 (10)	0.5	RLF3xxx55x
	1.30 (0.051)	1.3 (0.051)	0.058	0.050	0.033	0.029	-0.9 (-13)	2.4 (35)	1.0	RMF3xxx55x
	1.30 (0.051)	1.3 (0.051)	0.058	0.050	0.033	0.029	-0.9 (-13)	4.8 (70)	2.0	RHF3xxx55x
	2.00 (0.079)	1.3 (0.051)	0.097	0.050	0.056	0.029	-0.9 (-13)	1.7 (25)	2.0	RHF3xxx85x

How to Order



Options

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- Other seal materials available on request
- Other voltages and electrical connections available
- Oxygen service
- Other pipe connections available on request

Installation

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网址:http://www.asco.store

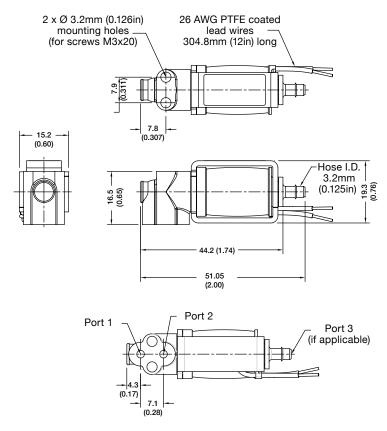
- The solenoid valves can be mounted in any position without affecting operation
- Line Mount solenoid valves have 2 mounting holes in body

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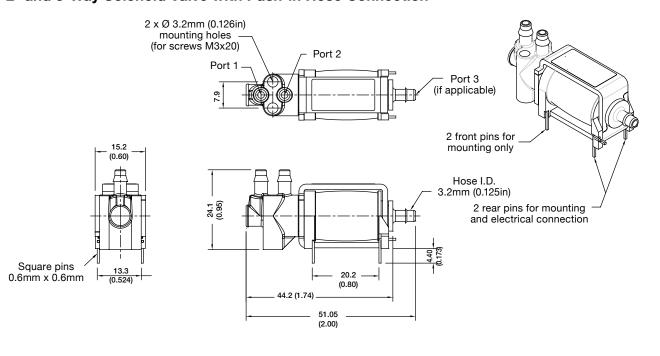
GENERAL SERVICE VALVES

Dimensions: mm (inches)

2- and 3-Way Pad Mount Solenoid Valve



2- and 3-Way Solenoid Valve with Push-in Hose Connection

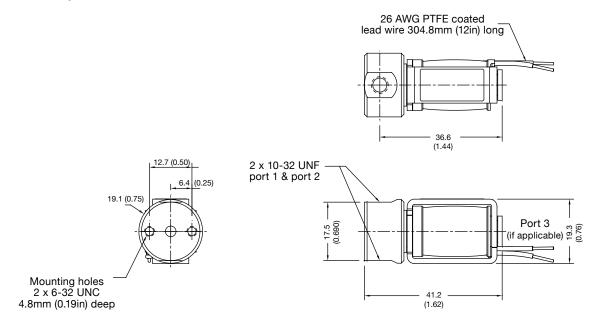


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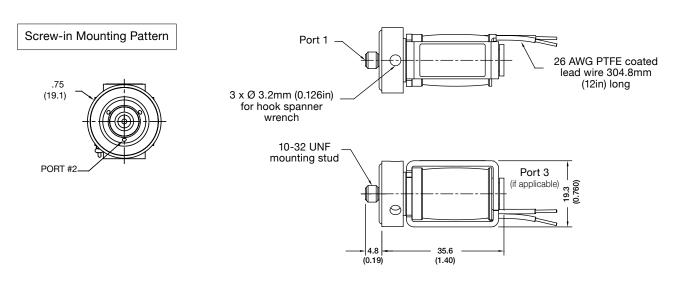
GENERAL SERVICE VALVES

Dimensions: mm (inches)

2- and 3-Way Line Mount Solenoid Valve



2- and 3-Way Manifold Mount Solenoid Valve



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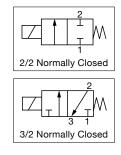


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GENERAL SERVICE VALVES

- 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



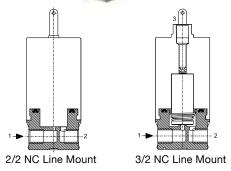


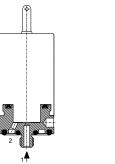
Fluids*	Temperature Range	Seal Materials*
Air or Inert Gases ¹	-23 °C to 66 °C (-10 °F to 150 °F)	FKM (fluoroelastomer), (EPDM on request)

¹ 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 Characte	eristics
Standard Voltages	12 VDC, 24 VDC
Power Consumption	0.65, 2.0 W





2/2 NC Manifold Mount 3/2 NC Manifold Mount

	Coil	Coil	Power Ratings			gs	Ambient		
Insulation Class	Insulation	Protection	Inrush	Hole	ding Hot/ Cold		Temperature Range	Electrical Connection	Type ¹
	°C (°F)	VA	VA	VA	W	W	°C (°F)		
В	-	IP40 (EN 60529)	-	-	-	1.5/1.5	-23 to 66 (-10 to 150)	Spade plug or lead wires 20 AWG, length 300mm (11.8in)	01

¹ Refer to the dimensional drawings on the following page

Specifications											
	Orific	Orifice Size		Flow Coefficient		Operating Pressure, bar (psi)				Catalog Number	
Connection		0.20	Tiow Cocincient			max. air and gases		Rating		Catalog Number	
	mm (inches)		Kv (m ³ /h)	Cv	min.			w		Line Mount Body	Screw-in Type Body
2/2 NC - Normally Closed											
	0.75 (0.03)		0.025	0.016	-0.9 (-13)	-	7 (102)	-	1.5	HSM2Lxx00V	HSM2Mxx00V
M5	1 (0.04) 2 (0.08)		0.041	0.027	-0.9 (-13)	-	7 (102)	-	1.5	HSM2Lxx10V	HSM2Mxx10V
			0.085	0.057	-0.9 (-13)	-	3.5 (51)	-	1.5	HSM2Lxx50V	HSM2Mxx50V
3/2 NC - No	rmally Clos	ed									
	Port 1	Port 2									
	0.75 (0.03)	1 (0.04)	0.025	0.016	-0.9 (-13)	-	7 (102)	-	1.5	HSM3Lxx00V	HSM3Mxx00V
M5	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

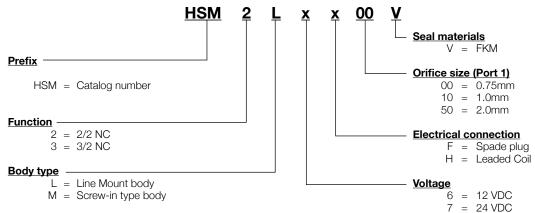
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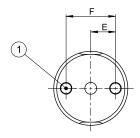
GENERAL SERVICE VALVES

How to Order

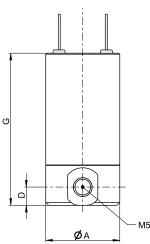


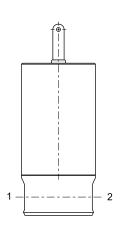
Dimensions: mm (inches)

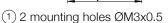
HSM2Lxx00V/HSM2Lxx10V/HSM2Lxx50V HSM2Mxx00V/HSM2Mxx10V/HSM2Mxx50V



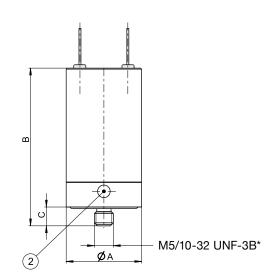
- 1) 2 mounting holes ØM3x0.5
- Mounting with hook spanner wrench DIN 1810B





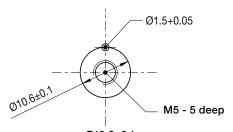


2 Mounting with hook spanner wrench DIN 1810B



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

Screw-in Mounting Pattern



Ø10.6±0.1 max. Ø1.5+0.05

Connection Type	Catalog Number	Α	В	С	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)	-	-	-	1

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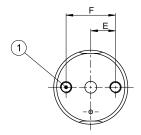
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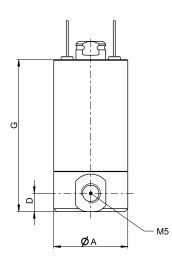
GENERAL SERVICE VALVES

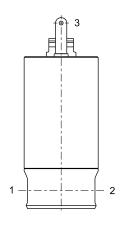
Dimensions: mm (inches)

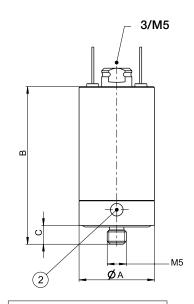
HSM3Lxx00V/HSM3Lxx10V/HSM3Lxx50V HSM3Mxx00V/HSM3Mxx10V/HSM3Mxx50V



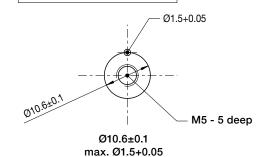
- 1 2 mounting holes ØM3x0.5
- (2) Mounting with hook spanner wrench DIN 1810B







Manifold Mounting Pattern



Connection Type	Catalog Number	Α	В	С	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)

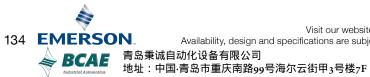
Installation

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- 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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FLAPPER PROPORTIONAL FLUID ISOLATION VALVES

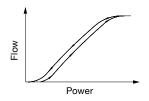
- Flapper proportional valves are designed to proportionally control the flow of neutral and aggressive liquids and gases by varying the electrical input signal to the coil
- Special Flapper mechanism results in no pumping or sticking
- Reduced heat transfer between control mechanism and fluid make them 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
- 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

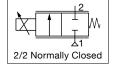
Fluids*	Temperature Range	Seal Materials*
Liquids or Gases ¹	5 °C to 50 °C (41 °F to 122 °F)	FKM/FFKM/EPDM



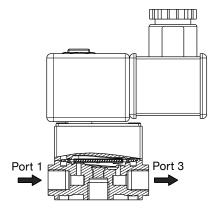
^{*} Ensure that the compatibility of the materials in contact with the fluids is verified

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

	Max.		Power	Ambient			
Voltage	Operating Current	Inrush	Hole			Temperature Range	
٧	mA	VA	VA	W	W	°C (°F)	
12	0		-		9		
12	750				9	5 to 50	
24	0	-		-	-	9	(41 to 122)
24	375				9		

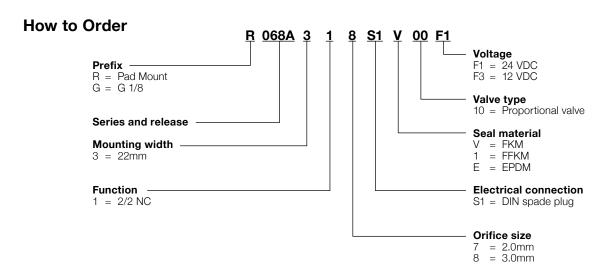
Specifications									
	Orifice Size	Flow Coefficient		Operating Pre	ssure, bar (psi)	Power Rating	Catalog Number		
Connection	mm (inches)	Kv (m3/h)	Cv	min.	max. gases, liquids	(W)	Body PEEK		
G1/8	2 (0.079)	0.069	0.080	0	4.5 (65)	9	G068A317xxx10xx		
G1/6	3 (0.118)	0.123	0.142	0	2.0 (29)	9	G068A318xxx10xx		
Dad Mounting1	2 (0.079)	0.069	0.080	0	4.5 (65)	9	R068A317xxx10xx		
Pad Mounting ¹	3 (0.118)	0.123	0.142	0	2.0 (29)	9	R068A318xxx10xx		

^{1 4} hexagon socket screws M3 x 8mm (0.315), stainless steel, ISO 4762 (supplied)

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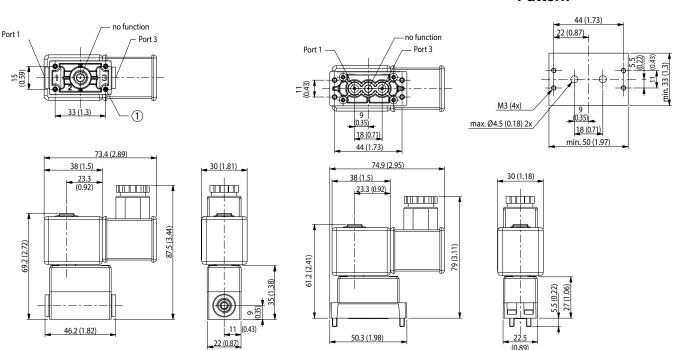
青岛秉诚自动化设备有限公司

FLAPPER PROPORTIONAL FLUID ISOLATION VALVES



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^D 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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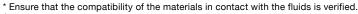
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PROPORTIONAL VALVES, PRECIFLOW 12.7 mm

- Preciflow solenoid valves are designed to proportionally control the flow
 - of air and inert gases by varying the electrical input signal to the coil
- Low hysteresis (typ. < 5%), excellent repeatability (typ. < 1%), and high sensitivity (typ. < 0.1%) make these valves ideal for high precision flow control
- Compact frictionless architecture saves valuable space in analytical and medical instrumentation
- Valves do not require a minimum operating pressure, and are well-suited for vacuum operation
- Power consumption as low as 1 W to meet the most stringent instrument power requirements
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
 - Gas Chromatography
 - Mass Flow Controllers
 - Dental Equipment
 - **Blood Pressure Monitoring**

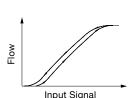
Fluids*	Temperature Range	Seal Materials*
Air, Oxygen, Inert Gas1	0 °C to 55 °C (32 °F to 131 °F)	FKM/FFKM



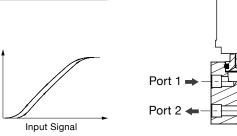
¹ Filtration: 5µm

General Valve Information					
Body	Brass				
Others	Stainless Steel				

Electrical Characteristics					
Coil Insulation Class	F				
Connector	Lead Wires 24 AWG; L = 500mm (19.7in)				
Electrical Safety	IEC 335				
Electrical Enclosure Protection	IP50				
Standard Voltages	6 VDC, 12 VDC, 24 VDC				
Input Signal	0-6 VDC, 0-12 VDC, 0-24 VDC Pulse-width Modulation (> 1000Hz), Current control recommended				
Flow Regulation Characteristics	Hysteresis typ. 5%; Repeatability typ. 1%; Sensitivity typ. 0.1%				



2/2 Normally Closed



Voltage	Max. Operating		Powe	Ambient Temperature		
Current		Inrush Holding			Hot/Cold	Ranges
٧	mA	VA	VA	W	W	°C (°F)
6	170				1	
6	420				2.5	
12	85				1	0 to 55
12	210	-	-	-	2.5	(32 to 131)
04	45				1	
24	110				2.5	

Specifications								
Orifice Size	Flow Co	v Coefficient Operating Pressure bar (psi)		Power Rating	Catalog Number			
mm (inches)	Kv (m3/h)	Cv	min.	max.	W	pad mount version		
0.045 (0.0018)	0.00006	0.00007	-0.9 (-13)	10 (145)	1	R202A540L0xxxxx		
0.07 (0.0023)	0.00012	0.00014	-0.9 (-13)	10 (145)	1	R202A541L0xxxxx		
0.1 (0.0040)	0.0003	0.00035	-0.9 (-13)	10 (145)	1	R202A542L0xxxxx		
0.2 (0.0079)	0.0012	0.0014	-0.9 (-13)	10 (145)	1	R202A543L0xxxxx		
0.4 (0.0157)	0.0048	0.0055	-0.9 (-13)	10 (145)	2.5	R202A544L0xxxxx		
0.6 (0.0236)	0.0096	0.0111	-0.9 (-13)	10 (145)	2.5	R202A545L0xxxxx		
0.8 (0.0315)	0.018	0.0208	-0.9 (-13)	10 (145)	2.5	R202A546L0xxxxx		

^{*} Inlet or outlet filter available on request

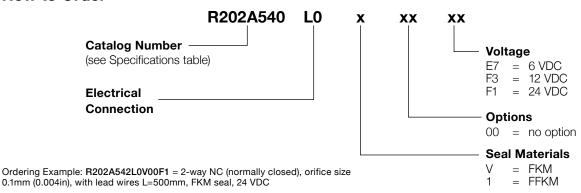
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Email: sales@bechinas.com

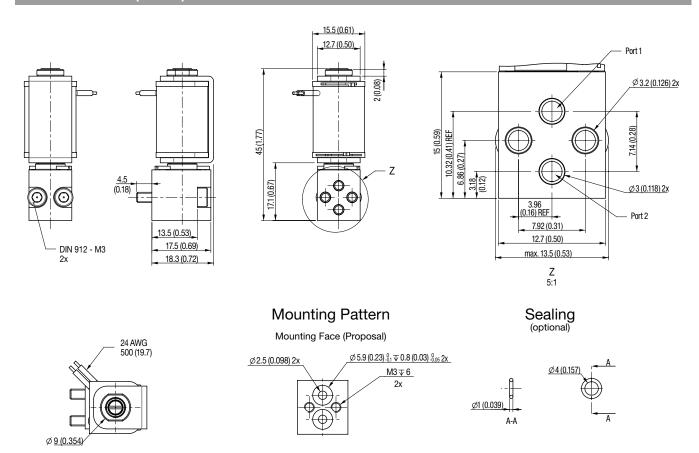
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PROPORTIONAL VALVES, PRECIFLOW 12.7 mm

How to Order



Dimensions: mm (inches)



Options

- Digital control module Control^D for DIN EN 50022 rail mounting (for more information see specifications on page 185)
- · Other materials and voltages available on request
- Sealing FKM: 514684-001, FFKM: 514684-002 (minimum order quantity required)
- Subbase with M5 connections and O-ring seals available:

地址:中国·青岛市重庆南路99号海尔云街甲3号楼7F

- 517973-001 --> Subbase with FKM O-rings
- 517973-002 --> Subbase with FFKM O-Rings

Installation

- The solenoid valves can be mounted in any position without affecting operation
- · Manifold and O-Rings not included

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网址:http://www.asco.store

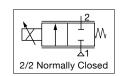
ASCO

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PROPORTIONAL VALVES, PRECIFLOW 15 mm

- Preciflow solenoid valves are designed to proportionally control the flow of air and inert gases by varying the electrical input signal to the coil
- \bullet Low hysteresis (typ. < 3%), excellent repeatability (typ. < 1%), and high sensitivity (typ. < 1%) make these valves ideal for high precision flow control
- Compact frictionless architecture saves valuable space in analytical and medical instrumentation
- Valves do not require a minimum operating pressure, and are well-suited for vacuum operation
- Power consumption as low as 1 W to meet the most stringent instrument power requirements
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
 - Respiratory Therapy
 - Gas Chromatography
 - Blood Pressure Monitoring
 - Anesthesia Delivery





Fluids*	Temperature Range	Seal Materials*
Air, Inert Gas ¹	0 °C to 50 °C (32 °F to 122 °F)	FKM

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

¹ Filtration - M5 or pad mount version: 5µm - 1/8 : 50µm

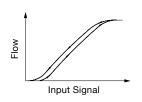
General Valve Inf	ormation
Body	Brass or PVDF
Others	Brass, Stainless Steel

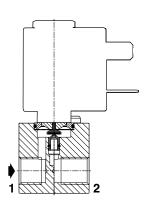
Electrical Characteristics						
Coil Insulation Class	F					
Connector	Spade plug; cable Ø4-6mm (0.157 - 0.236in), Ø6-8mm (0.236 - 0.315in), Ø6-10mm (0.236 - 0.394in)					
Connector Specification	DIN 43650, 9.4mm (0.370in), industry standard C (type 01) DIN 43650, 11mm (0.433in), industry standard B (type 02) ISO 4400/EN 175301-803, form A (type 03)					
Electrical Safety	IEC 335					
Electrical Enclosure Protection	Molded IP65 (EN 60529)					
Standard Voltages2	12 VDC, 24 VDC					
Voltage Regulation	0-12 VDC, 0-24 VDC; Pulse-width Modulation (1000Hz)					
Flow Regulation Characteristics	Hysteresis typ. < 3%; Repeatability typ. < 1%; Sensitivity typ. < 1%					

² Other voltages on request

	Max.		Power	Ratings	Ambient		
Voltage	Operating Current	Inrush	Holding		Hot/ Cold	Temperature Ranges	Type ³
V	mA	VA	VA	W	W	°C (°F)	
	85			-	1		01
12	340	-	-		4	0 to 50	
12	400				5	(32 to 122)	02
							03
	40				1	0 to 50 (32 to 122)	01
24	170	_			4		
	230	_	-	-	5		02
	380				9		03

³ Refer to the dimensional drawings on the following page





Asco

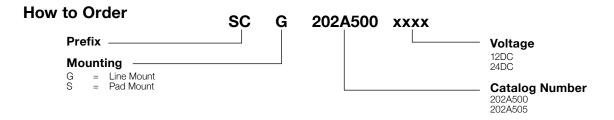


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PROPORTIONAL VALVES, PRECIFLOW 15 mm

Specifications									
					Operating Pressure			Catalog Num	nber
Connection	Orifice Size	Flow Coefficient		bar (psi) max.		Power Rating	Threaded Body		ISO 15218 (CNOMO, size 15) Interface
	mm (inches)	Kv (m3/h)	Cv		air, inert gas	W	brass	PVDF	brass
	0.1 (0.0040)	0.0003	0.00035		10 (145)	1	SCG202A500	-	SCS202A505
M5 or	0.2 (0.0079)	0.0012	0.0014	-0.9 (-13)		1	-	SCG202A501	SCS202A506
Pad	0.4 (0.0157)	0.0048	0.0055			4	-	SCG202A502	SCS202A507
Mount	0.6 (0.0236)	0.0096	0.0111			4	-	SCG202A503	SCS202A508
	0.8 (0.0315)	0.018	0.021			4	-	SCG202A504	SCS202A509
	0.8 (0.0315)	0.018	0.021		40 (445)	5	SCG202A510	-	-
	1.2 (0.0472)	0.041	0.047	-0.9	10 (145)	5	SCG202A511	-	-
G1/8	1.6 (0.0630)	0.071	0.082	(-13)	8 (116)	5	SCG202A512	-	-
	2.0 (0.0787)	0.096	0.111		6 (87)	5W (12V) / 9W (24V)	SCG202A513	-	-



Options

- Digital control module Control for DIN EN 50022 rail mounting (for more information see specifications on page 185)
- Electronic control units for proportional control
- Other materials, connections, and coils available on request
- Plug with visual indication and peak voltage suppression or with cable length of 2m (78.7in)

Installation

- The valves can be mounted in any position without affecting operation
- Pipe connection identifier is: G = G (ISO 228/1)

01029GB-2020-R01

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PROPORTIONAL VALVES, PRECIFLOW 15 mm

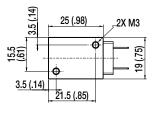
Dimensions: mm (inches)

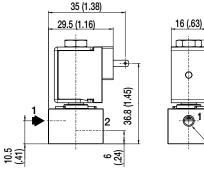
Type 01

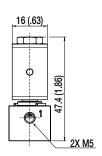
Prefix "SC" solenoid, epoxy molded IEC 335/DIN 43650, 9.4mm (0.37in) IP65



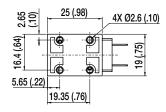
SCG202A500

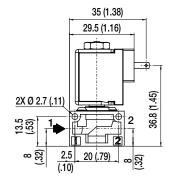


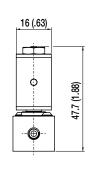




SCG202A501/A502/A503/A504

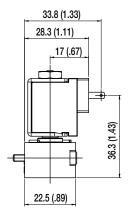


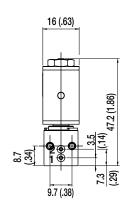




SCS202A505/A506/A507/A508/A509

(Version with ISO 15218 interface for installation on single subbase M5)

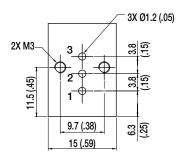




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ISO 15218 Mounting Pattern



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PROPORTIONAL VALVES, PRECIFLOW 15 mm

Dimensions: mm (inches)

Type 02-03

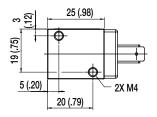
Prefix "SC" solenoid, epoxy molded IEC 335/DIN 43650 or ISO 4400 **IP65**



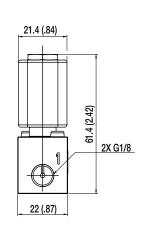


Type 02: SCG202A510/A511/A512 Type 03: SCG202A513

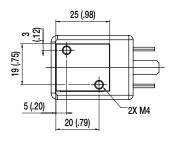
With 22 mm Coil Version

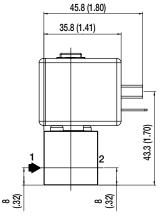


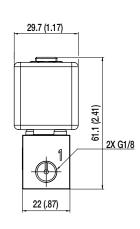
37.2 (1.46) 30.9 (1.22) 50 (1.97) 8 (2)



Type 03: SCG202A513_24V With 30 mm Coil Version

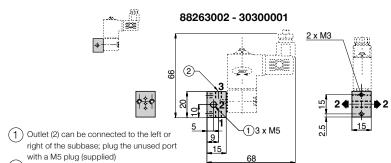






Single Subbase M5

Aluminum or brass



2 Port (3) unused

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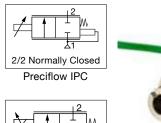
PROPORTIONAL VALVES, PRECIFLOW IPC, PRECIFLOW 19mm

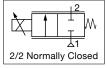
- Preciflow solenoid valves are designed to proportionally control the flow of air and inert gases by varying the electrical input signal to the coil
- Low hysteresis (typ. < 5%), excellent repeatability (typ. < 1%), and high sensitivity (typ. < 1%) make these valves ideal for high precision flow control
- Compact frictionless architecture saves valuable space in analytical and medical instrumentation
- Valves do not require a minimum operating pressure
- Low power consumption to meet the most stringent instrument power requirements

Fluids*

Air or Inert Gases¹

- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
 - Respiratory Therapy
 - Gas Chromatography
 - Blood Pressure Monitoring
 - Anesthesia Delivery



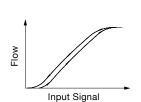


Preciflow 19mm

Seal Materials*

Preciflow IPC: FKM, NBR

Preciflow 19mm: FKM



Version

Preciflow IPC

Preciflow 19 mm

General Valve Information							
	Preciflow IPC	Preciflow 19mm					
Body	Stainless Steel and Brass (Line Mount) or POM (Pad Mount)	Stainless Steel					
Others	Stainless Steel, FKM, PPS	POM, Brass, Stainless Steel, PPS					
Max. Viscosity	50 cSt (mm2/s)						

Temperature Range

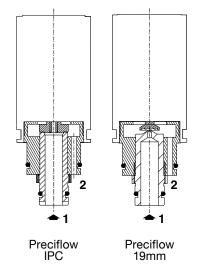
10 °C to 50 °C

(50 °F to 122 °F)

0 °C to 50 °C

Electrical Characteristics					
Coil Insulation Class	F				
Connector	Lead Wires (PTFE/ ETFE); 0.23m (9in) length (24 AWG)				
Electrical Safety	IEC 335				
Electrical Enclosure Protection	IP50 (EN 60529)				
Standard Voltages2	6 VDC, 12 VDC, 24 VDC				
Input signal	0-6 VDC, 0-12 VDC, 0-24 VDC; Pulse-width Modulation (min. 2000Hz), Current control recommended				
Flow Regulation Characteristics	Hysteresis < 5%; Repeatability < 1%; Sensitivity < 1%				

² Other voltages on request



W-H	Max. Operating		Powe	r Ratii	ngs	Ambient		
Voltage	Current	Inrush	Holding		Hot/Cold	Temperature Ranges	Type ³	
V	mA	VA	VA W		W	°C (°F)		
Preciflow IPC								
6	420					10 1- 50		
12	210 2.5		2.5	10 to 50 (50 to 122)	01			
24	110					(00 to 122)		
Preciflow 1	9mm							
6	max. 90				0.5			
U	max. 420				2.5			
12	max. 45				0.5	0 to 50	01	
24	max. 210	_	_	_	2.5	(32 to 122)		
	max. 25]			0.5	(02 to 122)		
24	max. 110				2.5			

3 Refer to the dimensional drawings on the following pages



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^{*} Ensure that the compatibility of the materials in contact with the fluids is verified.

¹ Filtration: 5µm

PROPORTIONAL VALVES, PRECIFLOW IPC, PRECIFLOW 19mm

Specifications							
Oti	Orifice Size	Flow Coefficient		Oper	ating Pressure bar (psi)	Power	Ootolog Nember
Connection				min.	max.	Rating	Catalog Number
	mm (inches)	Kv (m ³ /h)	Cv		air, inert gas	w	
Preciflow IPC*							
G1/8	3 (0.12)	0.17	0.20				LG202A514
Cartridge	3 (0.12)	0.17	0.20	0	7 (102)	2.5	LS202A515
Pad Mounting	3 (0.12)	0.17	0.20				LS202A516
* Backpressure: max	k. 10% of inlet pressure						
Preciflow 19mr	n						
	0.1 (0.004)	0.0003	0.00035			0.5	LS202A517
	0.2 (0.008)	0.0012	0.0014			0.5	LS202A518
Cartridge	0.5 (0.020)	0.0072	0.0083	-0.9	10 (145)		LS202A519
Carmage	0.8 (0.031)	0.015	0.017	(-13)	10 (143)	2.5	LS202A520
	1.2 (0.047)	0.021	0.024			2.5	LS202A521
	1.6 (0.063)	0.028	0.032				LS202A522

How to Order

	LG202A514	<u>xxxx</u>
Catalog Number See specifications table		Voltage 06DC 12DC 24DC

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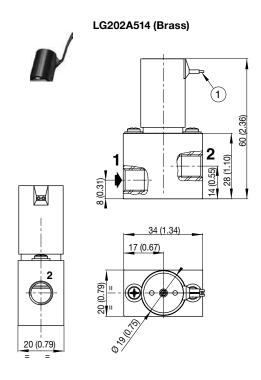
PROPORTIONAL VALVES, PRECIFLOW IPC, PRECIFLOW 19mm

Dimensions: mm (inches)

Preciflow IPC

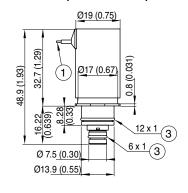
Type 01

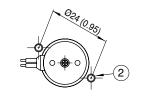
Prefix "L" Leaded Coil IP50

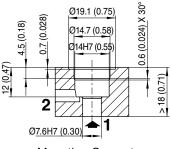


- 1 2 electrical supply wires, length: 0.23m (9in)
- Mounting: 2 screws M3 x 6mm (0.24in) + washers
- $\overline{3}$ O-ring

LS202A515 (Stainless Steel)

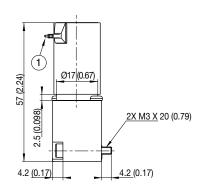


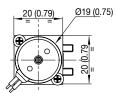


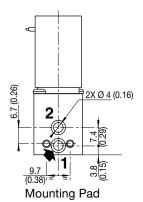


Mounting Geometry (Proposal)

LS202A516 (POM)







Tuno	Catalog Number	Weight 1
Туре	Catalog Number	kg
	LG202A514	0.183
01	LS202A515	0.063
	LS202A516	0.073

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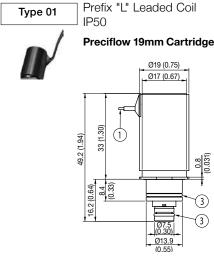
地址:中国·青岛市重庆南路99号海尔云街甲3号楼7F

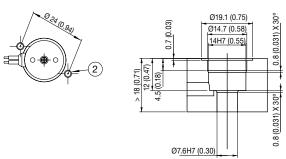
¹ Including leads, length 0.23m (9in)

PROPORTIONAL VALVES, PRECIFLOW IPC, PRECIFLOW 19mm

Dimensions: mm (inches)

Preciflow 19mm





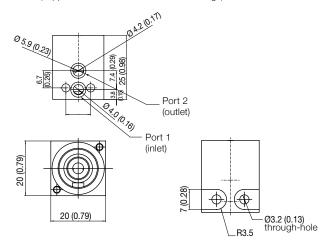
- 1 2 electrical supply wires, length: 0.23m (9in)
- (2) Mounting: 2 screws M3 x 6mm (0.24in) + washers
- (3) O-ring

Catalog Number	Weight
Catalog Number	kg
LS202A517/518/519/520/521/522	0.063 1
528190-001	0.012kg
526624-001	0.013kg

¹ Including leads, length 0.23m (9in)

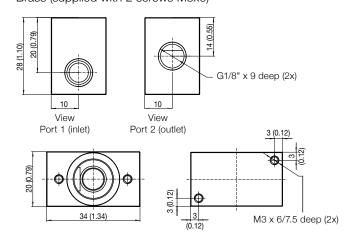
Pad Mount Subbase 526624-001

POM (supplied with 2 screws M3x20 and O-rings)



Inline Subbase 528190-001

Brass (supplied with 2 screws M3x6)



Options

- Digital control module Control^D for DIN EN 50022 rail mounting
 - (for more information see specifications on page 185)
- Other pipe connections are available on request
- Other seal materials are available on request
- Version for higher backpressure on request (only Preciflow IPC)

Installation

- The solenoid valves can be mounted in any position without affecting operation
- Pipe connection identifier is G = G (ISO 228/1)

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AVENTICS™ PROPORTIONAL VALVE SENTRONIC PLUS IPC

DIGITAL ELECTRONIC PRESSURE REGULATOR, IO-LINK CLASS A

- SENTRONIC PLUS IPC is a highly dynamic 2/2-way proportional valve with digital control.
- IO Link CLASS A Version
- RoHS, REACH compliant
- The very low friction mechanic delivers precise control behaviour, especially in flowing conditions.

General Valve Information					
Fluids	Air or neutral gases, Class 5 according to ISO 8573-1:2010 [7:4:4]				
Ports	G 1/8, 1/8 NPT				
Max. allowable pressure	Varies by outlet pressure range. See How to Order on next page.				
Pressure range	See table below				
Fluid temperature	050 C° (32122°F)				
Ambient temperature	050 C° (32122°F)				
Setpoint	Digital setpoint in steps of 1 mbar 0-10000 = 0-10 bar				
Hysteresis	0.5 % of span				
Linearity / pressure measurement	± 0.5 % of span				
Repeatability	± 0,5 % of span				

0

Construction					
Body	Aluminium				
Internal parts	Stainless steel and aluminium				
Seals	FPM				

IO-Link					
Protocol version	Specification V1.1				
Baud rate	COM3 (230.4 kBaud)				
Minimum cycle time	0.5 ms				
Process data	2 Byte IN, 2 Byte OUT				
Port type	Class A				

Electrical Characteristics									
Nominal diameter DN	Voltage *	Max. power (W)	Max. current (mA)	Insulation class	Degree of protection	Electrical connection			
3	24VDC +/-10%	5	210	F	IP30	5-pin M12 connector (to be ordered separately)			

^{*} Max. ripple: 10 %

Specifications									
	Orifice size	Orifice size Flow at 6 bar							
Pipe size		Flow Coe	efficient						
	(mm)	Kv (m ³ /h)	Cv	(l/min)					
G/NPT 1/8	3	0.17	0.20	150					

01603GB-2019-R01

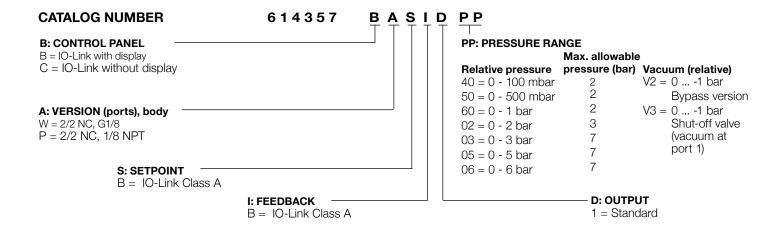
Email: sales@bechinas.com

服务热线:4006-918-365

AVENTICS™ PROPORTIONAL VALVE SENTRONICPLUS IPC

DIGITAL ELECTRONIC PRESSURE REGULATOR, IO-LINK CLASS A

How to Order



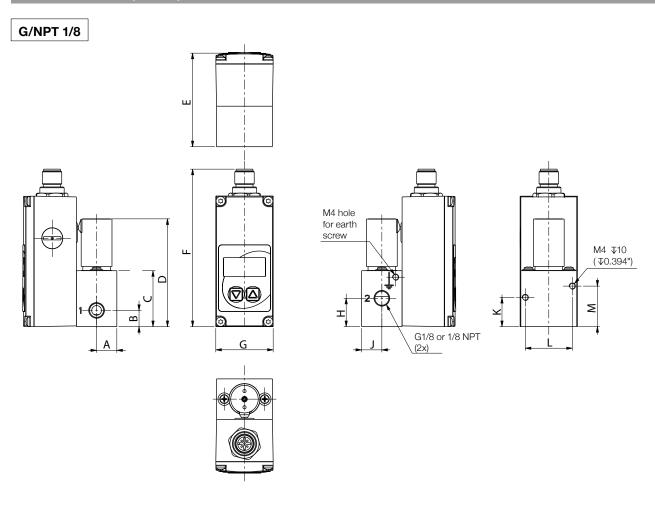
传真:(86-532)585-10-365

Email: sales@bechinas.com

AVENTICS™ PROPORTIONAL VALVE SENTRONIC PLUS IPC

DIGITAL ELECTRONIC PRESSURE REGULATOR, IO-LINK CLASS A

Dimensions: mm (inches)



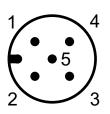
Catalog Number	A	В	С	D	E	F	G	Н	J	K	L	M	Weight kg (lbs)
614357XXXXXXX	12.5	10	34.5	66.5	57.7	97	35.4	17.5	12.5	18	29	25	0.250
	(0.492)	(0.393)	(1.358)	(2.618)	(2.27)	(3.819)	(1.393)	(0.689)	(0.492)	(0.708)	(1.142)	(0.984)	(0.551)

01603GB-2019-R01

AVENTICS™ PROPORTIONAL VALVE SENTRONIC*PLUS* **IPC**

DIGITAL ELECTRONIC PRESSURE REGULATOR, IO-LINK CLASS A

Pin Assignment / Cable Assignment



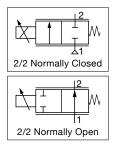
Pin	Description			
1	24V voltage supply			
2	not connected			
3	Supply ground			
4	C/Q			
5	not connected			
Body	EMC shield			

ACCESSORIES						
Description	Catalog Number					
Connection cable 5m, straight socket, open cable end	N15183710000000					
Connection cable 10m,straight socket, open cable end	N15183840000000					
Connection cable 5m, straight socket on straight connector	N15184490000000					
Connection cable 10m, straight socket on straight connector	N15184520000000					

网址:http://www.asco.store

PROPORTIONAL VALVES, MINIATURE PIEZOTRONIC

- Miniature, ultra-low power consumption (0.004 W), almost no heat dissipation
- Pad mounting proportional mini piezo-valves available with single subbase M5
- Variable flow, proportional to the control signal
- No wearing parts: practically unlimited service life
- No inductive peaks when switching: no circuit protection
- Valves do not require a minimum operating pressure
- The solenoid valves satisfy all relevant EC directives
- Typical applications include:
 - Gas Chromatography
 - Mass Flow Controllers
 - Dental Equipment
 - Blood Pressure Monitoring







Fluids*	Temperature Range	Seal Materials*
Air or Inert Gases ¹	0 °C to 60 °C (32 °F to 140 °F)	NBR

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

1 Filtration: 5µm, unlubricated, condensate free, dew point -10 °C

General Valve Information					
Body	PPS				
Others	Piezo Ceramics, Brass, Aluminum				

ELECTRICAL CONNECTION (Polarized piezo valve)

Version with spade plug connection:

2: GND (-) (() 1⊕ without function

1: 0-40 VDC (+) Version with 2 leads: red wire: +

black wire: -

Electrical Characteristics						
Coil Insulation Class	F					
Connector	Spade plug or cable 6-7mm (0.24-0.28in)					
Connector Specification	DIN 43650, 9.4mm, form C or 2 leads outlet 28 AWG, length 1m (39.4in)					
Electrical Safety	IEC 335					
Electrical Enclosure Protection	Molded IP65 (EN 60529)					
Voltage Regulation	0 – 40 VDC					
Flow Regulation Characteristics	Hysteresis < 10% to 15%					

Holding		Powe	Ambient Temperature			
Current	Inrush	Holding		Hot/Cold	Ranges	Type ²
mA	VA	VA W		W	°C (°F)	
< 100	-	-	-	0.004	0 to 60 (32 to 140)	01-02

² Refer to the dimensional drawings on the following page

Specificatio	Specifications										
Connection	Flow Co	efficient	Operating Pressure bar (psi)		essure Holding		Catalog Number				
			min.	m	max. air W		without man	ual operator	with impulse m	with impulse manual operator	
	Kv (m3/h)	Cv	111111.	а			W	connector	leads	connector	leads
2/2 NC - Norm	nally Closed	t									
Pad Mounting	0.005	0.006	0	-	8	-	0.004	63000075	63000035	63000079	63000039
Pad Modrilling	0.007	0.008	0	-	4	-	0.004	63000076	63000036	63000080	63000040
2/2 NO - Normally Open											
Dad Mounting	0.005	0.006	0	-	8	-	0.004	63000077	63000037	63000081	63000041
Pad Mounting	0.007	0.008	0	-	4	-	0.004	63000078	63000038	63000082	63000042

Subbases3					
Connection Mounting Type		Description	Catalog Number		
Connection	Wounting Type	Description	aluminum	brass	
M5	individual mounting	M5 lateral connection	88263002	30300001	

³ Multiple subbases available upon request

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PROPORTIONAL VALVES, MINIATURE PIEZOTRONIC

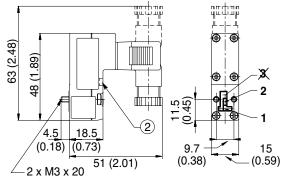
Dimensions: mm (inches)

Type 01

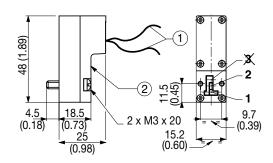
IEC 335/DIN 43650



63000075/76/77/78/79/80/81/82



IEC 335 Type 02 IP65 63000035/36/37/38/39/40/41/42

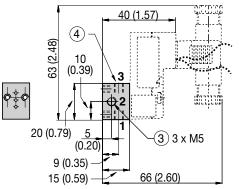


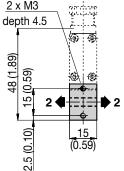


Single Subbase M5

Aluminum or brass

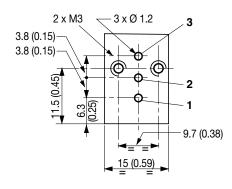
88263002 - 30300001







Subbase Mounting Pattern ISO 15218/CNOMO E06.36.120N, size 15



- (1) 2 leads 28 AWG, length: 1m (39.4in)
- (2) Manual operator location
- (3) Outlet (2) can be connected on the left or on the right of subbase; close he unused prort with a Ø M5 plug (supplied)
- (4) Port (3) not used (to be provided with protection)

Tura	Catalan Niverkan	Weight
Туре	Catalog Number	kg
01	63000075/76/77/78/79/80/81/82	0.040
02	63000035/36/37/38/39/40/41/42	0.032
-	88263002	0.012
-	30300001	0.034

Options

• Plug with cable length of 2m (78.8in)

Installation

- The solenoid valves can be mounted in any position without affecting operation
- Mounting on single subbases
- Unlike the on/off type, the proportional version is not equipped with electronics. Please check for correct polarity when connecting the valve. The piezo element will be damaged if the polarity of the connections is inversed. The control system of the user must be used for charging and discharging.

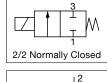
Important Note: The peak current must be limited by series resistor greater than 30 ohms

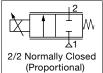
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DENTAL MANIFOLD

- 3 manifolds with the following configurations:
 - Manifold with 2 microactuators 2/2NC (A-P) and 1 total isolation microactuator 2/2NC (W); all direct acting.
 - Manifold with 1 microactuator 2/2NC (A), 1 total isolation microactuator 2/2NC (W) and 1 proportional solenoid valve 2 ways NC (P); all direct acting.
 - Manifold with 1 total isolation direct acting microactuator 2/2NC (W), 1 water channel (P) and 1 air channel (A).
- Compact and versatile version, designed for dental equipments; equipped with 3 flow regulators. The modular system allows the use as single or as a set (max. 4 manifolds); the manifold is delivered with 3 sealing O-rings and joint pin. Heads group kit (feeding and end side) available separately (see details on the back).
- Suitable to shut off liquid (W) and gaseous (A-P) fluids (verify the compatibility of fluid with materials in contact). Pipette Dispensing







Series 252 D01

Fluids*	Temperature Range	Seal Materials*
Liquids or Gases	-10°C to 90 °C (50°F to 194°F)	EPDM

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

General Valve Information				
Body	POM			
Others	Stainless Steel / PA 66 / Brass			
Response Time	< 10ms			
Max. Viscosity	22 cSt (mm ² /s)			

Electrical Characteristics						
Coil Insulation Class	F					
Connector	- DIN 46340 with micro plug connector - Lead Wires					
Electrical Safety	EN 60730-1					
Electrical Enclosure Protection	IP65 (EN 60529), IP40 (EN 60529)					
Standard Voltages*	12 VDC, 24 VDC (-5%/+10%), Proportional valve (P): 70 – 220 mA (24V)					

^{*} Other voltages on request

Coil Type	Power Ratings Ambient Temperature Range		Protection	Electrical Connection		
	W	°C (°F)	VA	W		
Standard S0	4	10 to 60 (50 to 140)	IP65	Spade terminals 2.8 x 0.5 (DIN 46340)		
Standard L0	4	10 to 60 (50 to 140)	IP65	500mm Lead Wire (for D01 and D03) - 460mm/500mm Lead Wire (for D02)		
Proportional S0	5.5	10 to 60 (50 to 140)	IP65	Spade terminals 2.8 x 0.5 (DIN 46340)		
Proportional L0	5.5	10 to 60 (50 to 140)	IP65	500mm Lead Wire (for D01 and D03) - 460mm/500mm Lead Wire (for D02)		



Series 252 D02



Series 252 D03

01074GB-2019-R01

服务热线:4006-918-365

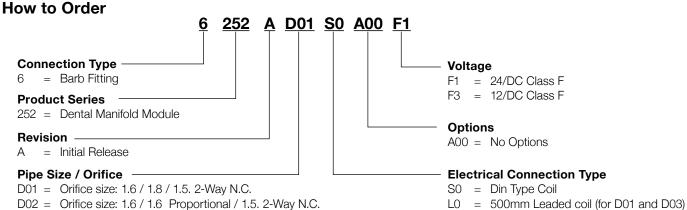
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地址:中国·青岛市重庆南路99号海尔云街甲3号楼7F

DENTAL MANIFOLD

pecification	pecifications							
	Orifice		Flow		Operating Pressure. bar (psi)			
Туре	Size	Coefficient		min.	min.		Power Rating (W)	Catalog Number
	mm (inches)	Kv (m ³ /h)	Cv		gases	liquids		
	1.6 (0.063)				6 (87)	-	4	
D01	1.8 (0.071)	0.030	0.035	0	6 (87)	-	4	6252AD01
	1.5 (0.059)				-	3 (43.5)	4	
	1.6 (0.063)	0.030	0.035		6 (87)	-	4	
D02	1.6 (0.063)	-	-	0	6 (87)	-	5.5	6252AD02
	1.6 (0.063)	0.030	0.035		-	3 (43.5)	4	
D03	1.5 (0.059)	0.030	0.035	0	-	3 (43.5)	4	6252AD03



D02 = Orifice size: 1.6 / 1.6 Proportional / 1.5. 2-Way N.C.

地址:中国·青岛市重庆南路99号海尔云街甲3号楼7F

D03 = Orifice size: 1.5. 2-Way N.C.

Accessories Heads group kit

Description	Series	Catalog Number
Heads group kit Consisting of: feeding head, end side head, screw, sealing, pin	252	M252AU529833001

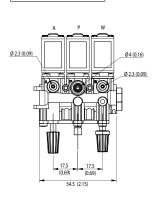
ASCO

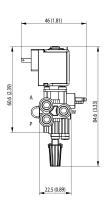
网址:http://www.asco.store

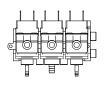
460mm/500mm Leaded coil (for D02)

Dimensions: mm (inches)

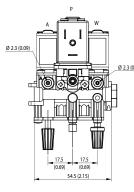
Type 1 / D01

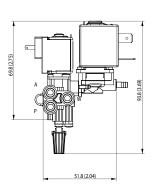


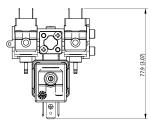




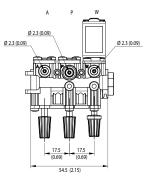
Type 2 / D02

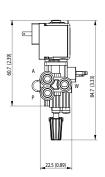


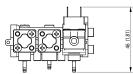




Type 3 / D03

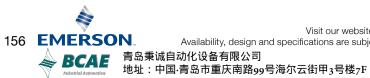






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Asco



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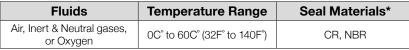
ASCO 传真:(86-532)585-10-365 服务热线:4006-918-365 网址:http://www.asco.store Email: sales@bechinas.com

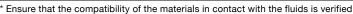
ASCO™ MINIATURE PRESSURE REGULATOR

NON-RELIEVING MANIFOLD MOUNT

The Series 624 non-relieving regulator is designed to control system pressure to a constant maximum set point.

- Lightweight, compact manifold mount interface for easy installation and maintenance
- Output pressure ranges 0-0.7 bar (0-10 psi), 0-1.4 bar (0-20 psi), 0.4 - 2.1 bar (5 - 30 psi)
- Suitable for use in a wide variety of gas applications, and is an excellent choice for use with 95% concentrated oxygen
- Excellent for oxygen therapy and ventilation applications
- Typical applications include:
 - Oxygen Concentrators
 - Respiratory Therapy
 - Ventilators





Manifold Construction					
Body	POM				
Internal Components	POM				
Function	Non-Relieving Regulator				
Inlet Fitting	1/8" NPT				
Outlet Fitting	Barb for 1/4" I.D. Tubing				

Alternate Construction Options

Additional options are available including alternative inlet and regulated pressure ranges. Minimum quantities apply.

Specifications								
	Inlet Pressure Regulated Pressure							
Port Type	Max bar (psi)	Min bar (psi)	Max bar (psi)	Flow (slpm) ⁽¹⁾	Catalog Number			
	6.9 (100)	0.0 (0)	0.7 (10)	74	8624A501			
Manifold	6.9 (100)	0.0 (0)	1.4 (20)	109	8624A502			
	6.9 (100)	0.4 (5)	2.1 (30)	112	8624A503			

⁽¹⁾ Inlet pressure set at 100psig, outlet set at maximum regulated pressure, flow rate at 15% pressure drop from maximum regulated pressure

To Order

- · Select catalog number from specification table above
- Additional seal materials available on request





01073GB-2019-R01

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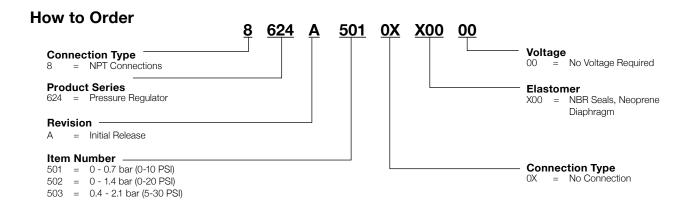
网址:http://www.asco.store

青岛秉诚自动化设备有限公司 服务热线:4006-918-365

地址:中国·青岛市重庆南路99号海尔云街甲3号楼7F

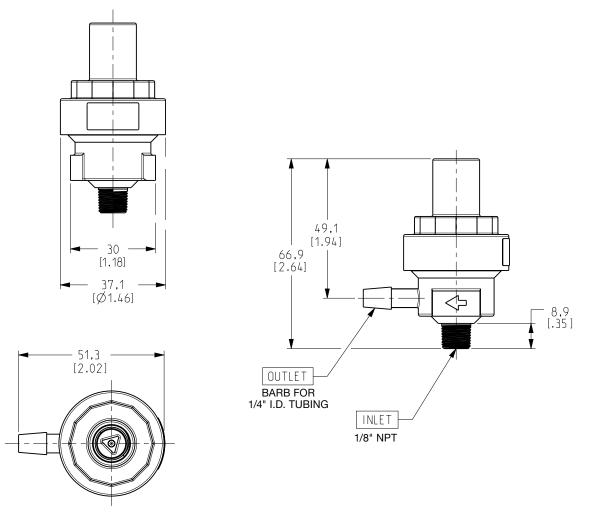
ASCO™ MINIATURE PRESSURE REGULATOR

NON-RELIEVING MANIFOLD MOUNT



Dimensions: mm (inches)

Port Type: Manifold Weight: 35.4g (1.25oz)



BCAE

传真:(86-532)585-10-365

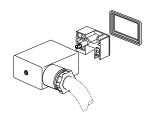
- Spade connector to fit standardized three-pin molded coils:
 - Size 22 connector with 11mm (0.43in) between contacts: EN 175301-803, industry standard form B, for coil types CM5, CM22, C22A, EMX and BMX
 - Size 30 connector with 18mm (0.71in) between contacts: ISO 4400/EN 175301-803 form A, for coil types CM6, CMXX, CM12, CM25, C25A, CM30, CM40, ANX, AMX, JMX, FNX and FMX
- The connectors are available in two versions: standard rotatable version with or without integrated visual LED indicator and electrical protection, or version with non-rotatable 3-core molded-in cable, 2m (78.7in) long
- The standard connector with 18mm contacts is provided with a removable lid allowing access to the wiring for easy checking of power supply without unplugging the connector and without interrupting operation of the solenoid

Connector	Max. Operating		
11mm between contacts (0.43in) 18mm between contacts (0.71in)		Temperature	
EN 175301-803 industry standard form B	ISO 4400/EN 175301-803, form A	-40 °C to 80 °C (-40 °F to 176 °F), -40 °C to 125 °C (-40 °F to 257 °F) with silicone seal [version with molded-in cable -5 °C to 70 °C (23 °F to 158 °F)]	

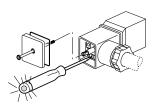
Construction					
Standard version	PA (polyamide), glass-fiber reinforced				
Enclosure with LED and protection	PA				
Enclosure with PVC cable	PA (polyamide), glass-fiber reinforced				
Seals	NBR [option for 18mm contacts: VMQ (silicone)]				

Electrical Characteristics						
	18mm between contacts (0.71in)					
Number of contacts 2 + common ground 2		2 + common ground				
Contact resistance	≤ 4m Ω	≤ 4m Ω				
Connector	Spade plug	Spade plug				
Electrical safety	IEC 335	IEC 335				
Electrical enclosure protection	IP65 (EN 60529)	IP65 (EN 60529)				
Number of wires (with cable)	3	3				



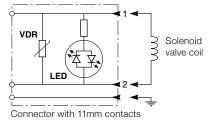


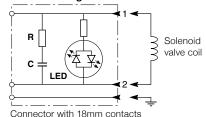
Rotatable Connector



Standard Rotatable Connector with Power Supply Control

LED Indicator and Electrical Protection Diagrams





VDR Varistor absorbing the self-inductance of the coil RC circuit absorbing the self-inductance of the coil Green light-emitting diode, bidirectional, signalling the presence of voltage across the coil terminals

	Cable	Cabl	Cable O.D.		Max.		Catalog Number		
Description	Length	11mm	18mm	Cross- Section	Voltage	Туре	11mm	18mm	
	m (inches)	nches) mm (inches)		mm2	V		NBR	NBR	VMQ*
Rotatable Connector									
Standard, Without LED Indicator	-	6 to 8 (0.24 to 0.31)	6 to 10 (0.24 to 0.40)	1.5	250	01-02	290414-001	290411-001	88122625
	-	6 to 8 (0.24 to 0.31)	8 to 10 (0.31 to 0.40)	1.5	12		-	88122611	-
					24	01-02	290415-024	290412-024	-
With Integrated LED Indicator and Electrical Protection					48		-	290412-048	-
and Liectincal Protection					115		290415-120	290412-120	-
					230		290415-240	290412-240	-
Non-rotatable Connector with	Cable								'
Without LED Indicator	2 (78.7)		-	1.5	250	03- 04	88122413	88122612	-

For use within class H temperature limits

服务热线:4006-918-365

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Dimensions: mm (inches)

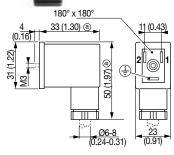


11mm (0.43in) Lead Wires

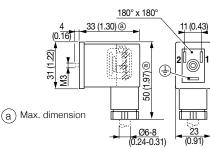
EN 175301-803, industry standard form B



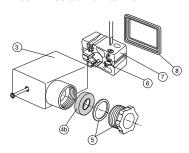
290414-001



290415-024/120/240



290414-001/024/120/240



Type 02

18mm (0.71in) Lead Wires ISO 4400/EN 175301-803, form A IP65

18 (0.71),

(1.18)

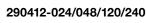


290411-001 88122625

(a)

(2.05)

<u>Ø6-10</u> (0.24-0.40)

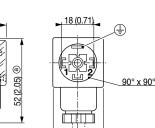


38 (1.50)@

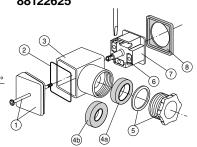
(0.16)

90° x 90°

(a) Max. dimension



290411-001 88122625



Type 03

Щ

11mm (0.43in) Lead Wires EN 175301-803,

industry standard form B IP65 (non-rotatable terminal holder)

88122413



30 (1.18)

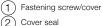
18mm (0.71in) Lead Wires ISO 4400/EN 175301-803, form A IP65 (non-rotatable terminal holder)

2m (78.7 in.)



<u>G-0</u>

Ø8-10 (0.31-0.40)

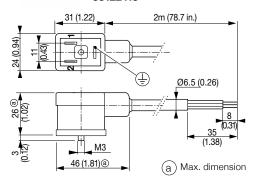


Cover seal (2)(3)Enclosure

88122602/625

2 seals for cable dia. 8 to 10mm (4a) or cable dia, 6 to 8mm (4b) 88122611/603/604/605/608: 1 seal for cable dia, 8 to 10mm (4a) 88122404/405/406/407/410: 1 seal for cable dia. 6 to 8mm (4b)

- Stuffing box washer and nut
- (6) Cable connection terminal
- Terminal holder
- (8) Connector seal



Installation

The connectors can be mounted in any position without affecting operation

Sizes 03 an	d 04
brown wire	terminal 1 (+)
blue wire	terminal 2 (-)
green/vellow wire	around

Щ_М3

	Туре	L	Weight	1 (kg)
.,,,,		m (inches)	without LED indicator	with LED indicator
	01	-	0.025	0.025
	02 - 03 2 (78.7)		0.030	0.032
			0.150	-
	04	04 2 (78.7) 0.155		-

¹ Including seals and screws

35 (1.38)

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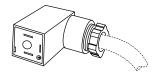
- Spade connector to fit standardized three-pin molded coils:
 - EN 175301-803, industry standard form C (9.4mm), for coil type CM15 (202 Series), DMX and 302, 630, 519, 520, 521 and 578 Series (MEGA)
 - EN 175301-803, form C (8mm), for 302, 630 and 202 Series
- The connectors are available in three versions: standard rotatable version, or version with non-rotatable 3-core molded-in cable, 2m (78.7in) or 5m (196.9in) long, with or without integrated visual LED indicator and electrical protection

Connector Sp	Max. Operating		
9.4mm between contacts (0.37in)	8mm between contacts (0.31in)	Temperature	
EN 175301-803 EN 175301-803, industry standard form C form C		-25 °C to 60 °C (-13 °F to 140 °F), [version with molded-in cable]	

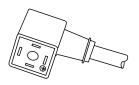
Construction	
Standard version	PA, glass-fiber reinforced
Enclosure with LED and protection	PA or PP
Enclosure with PVC cable	PP, glass-fiber reinforced
Seals	NBR

Electrical Characteristics						
	9.4mm between contacts (0.37in)	8mm between contacts (0.31in)				
Number of contacts	2 + common ground	2 + common ground				
Contact resistance	$\leq 4 \text{m} \Omega$	≤ 4m Ω				
Connector	Spade plug	Spade plug				
Electrical safety	IEC 335	IEC 335				
Electrical enclosure protection	IP65 (EN 60529)	IP65 (EN 60529)				
Number of wires (with cable)	3	3				



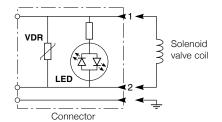


Rotatable Connector 9.4mm or 8mm



Non-rotatable Connector with Cable

LED Indicator and Electrical Protection Diagram



VDR Varistor absorbing the self-inductance of the coil LED Green light-emitting diode, bidirectional, signalling the presence of voltage across the coil terminals

Specifications							
Description	Cable Length	Cable O.D.	Wire Cross- Section	Max. Voltage	Туре	Catalog Nu	mber
	m (inches)	mm (inches)	mm ²	V		9.4mm	8mm
Rotatable Connector							
Standard, Without LED Indicator	-	4 to 6 (0.16 to 0.24)	0.6	250 V	01 - 02	290417-001 (US customers) 88143581 (all other customers)	88130211
Non-rotatable Connector with	Cable						
Without LED Indicator	2 (78.7)	-	0.6	250 V	03	272852-004	*
With Integrated LED Indicator and	2 (78.7)	_	0.6	24 V	04	-	-
Electrical Protection	5 (196.9)		0.0	24 V	04	88143593	-

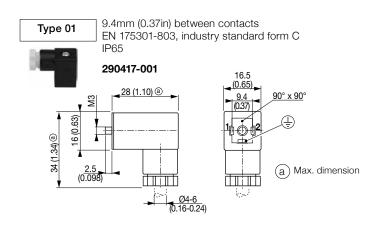
Contact us

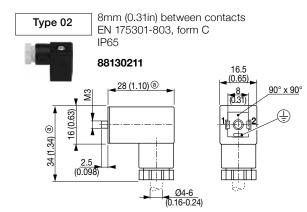
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Dimensions: mm (inches)

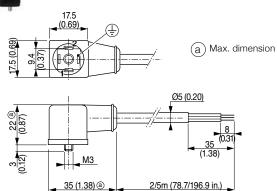




Type 03

Lead wires, without LED indicator EN 175301-803, industry standard form C (9.4mm) IP65 (non-rotatable terminal holder)

272852-004



88130211-88143581
5 6 1 3 4

- Fastening screw/cover
- (2
- (3 Seal for cable diameter 4 to 6mm
- (4 Stuffing box washer and nut
- (5) Connector seal
- (6) Terminal holder
- Cable connection terminal

Sizes 03 and 04			
brown wire	terminal 1 (+)		
blue wire	terminal 2 (-)		
areen/vellow wire	around		

_	L	Weight¹ kg		
Туре	m (inches)	without LED indicator	with LED indicator	
01-02	-	0.015	-	
03	2 (78.7)	0.100	-	

¹ Including seals and screws

Options

• Connectors with cable 5m (196.9in) long available on request

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Installation

The connectors can be mounted in any position without affecting operation

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POWER-SAVE CONNECTORS

Once a DC-type solenoid valve is activated, only the holding current, which corresponds to 50% of the inrush voltage, is necessary to keep the valve in position. The power-save connector switches to holding voltage after approx. 70 ms (size 30) or 140 ms (size 22). The holding power is thereby reduced to a quarter of the inrush power. During power reduction, the valve's coil is piloted via PMW voltage pulses.

- The main advantages of a connector with voltage reduction are:
 - Power savings (lower current consumption)
 - Low heat development in the solenoid valve



Construction	
Enclosure	PA

Inrush				
voltage				
		Po	wer savings	
Holding				
voltage				
1				→
	70	ms 14	0 ms	Time
1				
1				

Electrical Characteristics					
	Size 22	Size 30			
Input Voltage	12/24 VDC ± 10%	10 to 30 VDC			
Output Voltage	12 VDC ± 10%	6 to 30 VDC			
Power Rating	Max. 12 W	Max. 30 W			
Connector	Spade plug	Spade plug			
Electrical Safety	Industry standard, form B	ISO 4400/EN 175301-803, form A			
Number of Contacts	2 + 1 common ground	2 + 1 common ground			
Electrical Enclosure Protection	IP65	IP65			
Cable Diameter	6 to 8mm (0.24in to 0.31in)	6 to 8mm (0.24in to 0.31in)			
LED Green	Solenoid valve actuation	Solenoid valve actuation			
LED Red	-	Overcurrent or overvoltage			
Voltage Reduction	After 140ms	After 70ms			
PWM Frequency	7 KHz	50 KHz			

Specifications				
Description	Size	Input Voltage	Catalog Number	
Power-save connector with voltage reduction	22	24 VDC ± 10%	88100934	
	22	12 VDC ± 10%	88100944	
	30	10 to 30 VDC	88100945	

Asco

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POWER-SAVE CONNECTORS

18mm (0.71in) between contacts

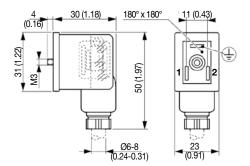
30 (1.18)

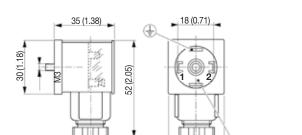
90° x 90°

Dimensions: mm (inches)

Size 22

11mm (0.43in) between contacts



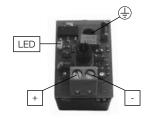


Size 33

Electrical Connection

Size 22

11mm (0.43in) between contacts



Screw terminals: up to 1mm² cable

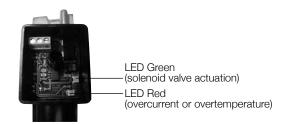
- Pilot voltage + (12/24 V)
- Pilot voltage (GND)
- Ground terminal, straight through



- Valve voltage +
- Ground terminal (PE)

Size 33 18mm (0.71in) between contacts

Ø6-8 (0.24-0.31)



Screw terminals: up to 1mm² cable

- Pilot voltage + (10-30 V)
- Pilot voltage (GND)
- Ground terminal (PE)



- Valve voltage +
- Valve voltage -
- Ground terminal (PE)

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CONTROL DEVICE

ELECTRONIC CONTROL UNIT

- Converts analog input control signals to coil current of a proportional solenoid valve by means of pulse width modulation
- LED-Display integrated in the connector
- Adjustable UP/DOWN ramp control
- Output coil current independent of coil resistance (temperature) and supply voltage variations
- The electronic circuit is integrated in a standard housing according to DIN EN 175301-803, form A
- Parameter setting via PC interface and programming adapter or, optionally, via the switches integrated in the connector





General Information			
Nominal Voltage	12/24 VDC		
Maximum Current	1.2/2.5A		
Housing	PA		
Cover	PA		
Screw	Zinc plated steel		
Seals	NBR		

Electrical Characteristics			
Connector	M12, 5 pins		
Connector Specification	DIN EN 175301-803, form A		
Electrical Safety	IEC 335		
Electrical Encloseure Protection	IP65 (EN 60529)		
Supply Voltage	12 V30 VDC (incl. ripple)		
Ramp	Selectable ON/OFF, adjustable between 50 ms to 5 s, Up/Down		
Adjustable Switching Frequency	60 to 1500Hz		

Max. Full Load Current	Input Control Signal		Ambient Temperature Range
I _{FL}	U _c I _c		Ambient remperature hange
mA	V	mA	°C (°F)
1200/2400	0 - 10	4 - 20	-20 to 65 (-4 to 149)

Specifications				
Catalog Number: Proportional Valves for		Catmaint	Catalog Number	
Digital Control Unit	Type	Setpoint	Control Unit	Adapter
202A001V to 202A087V	01	0 - 10 V	X90850164500100	
203B001V and 203B002V 60200001, 60200002, 60200004		4 - 20 mA	X90850164500200	-
202A201V to 202A208V and 202A513V	02	0 - 10 V	X90850164500100	833-064154
	02	4 - 20 mA	X90850164500200	833-064134

¹ Refer to the dimensional drawings on the following page

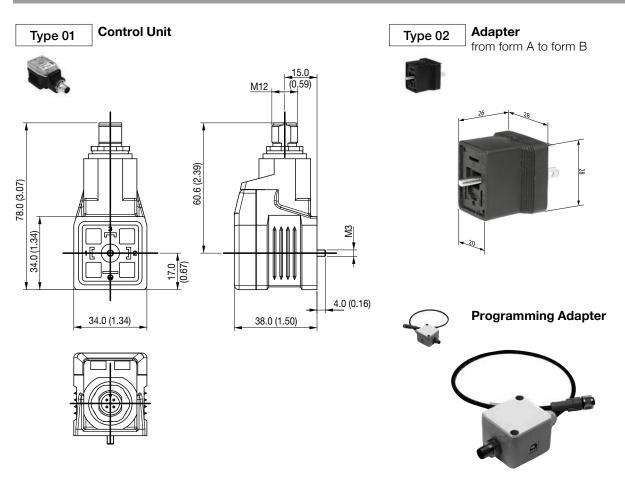
Proportional Valves Suitable for Control Applications			
Description	Series	Illustration	
3-port proportional valve for pressure control	602		
Posiflow/Preciflow proportional solenoid valves, Flapper proportional	202-203, 068		

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Dimensions: mm (inches)



Inpu	t and Output Signals
Pin	Supply
1	Voltage supply (see "Electrical Characteristics")
3	Analog ground 0 V (GND)
	Analog signals
2 4	Setpoint input (differential input) The range 0100% corresponds to an input voltage of 010 V or an input current of 420 mA (depending on version used)
	Communication
5	LIN Bus connection The parameters for the device can be set via this connection and our programming adapter

Accessories	
Description	Catalog Number
Straight M12 female connector, 5 pins, with screw terminals	88100256
Right-angle M12 female connector, 5 pins, with screw terminals	88100725
Supply cable 2m, 2 x 0.25mm ² , straight connector	88100726
Supply cable 2m, 2 x 0.25mm², right-angle connector	88100727
Supply cable 5m, 6 x 0.56mm², straight connector	88100728
Supply cable 5m, 6 x 0.56mm², right-angle connector	88100729
Supply cable 10m, 6 x 0.56mm², straight connector	88100730
Supply cable 10m, 6 x 0.56mm ² , right-angle connector	88100731
Adapter DIN EN 175301-803 from form A to form B for Type 02	833-064154
Programming adapter	X90850164500300

Installation

• The control unit can be mounted in any position without affecting operation

01046GB-2019-R01

PINCH VALVE TUBING & GUIDE

Tubing

- Platinum-cured Bio-Medical Grade silicone tubing designed specifically for analytical and medical devices
- Suitable for a wide range sterilization techniques such as steam autoclaving, gamma radiation, and ethylene oxide
- Excellent flexibility
- No peroxide cure chlorophenyl or PCB by-products
- Meets ISO 10993 guidelines for body contact applications
- Manufactured to the principles of FDA 21 CFR 210/211 cGMPs for Pharmaceutical products
- Available in 5' and 50' lengths

Specifications	
Tubing Material	Platinum Cured Silicone
Durometer	50 Shore A
Tensile Strength at Break	1388 psi
Elongation at Break	815%
Tear Strength	263 psi
Standards	Manufactured to the principles of FDA 21 CFR 210/211 cGMPs for Pharmaceutical products



Tubing Catalog Numbers

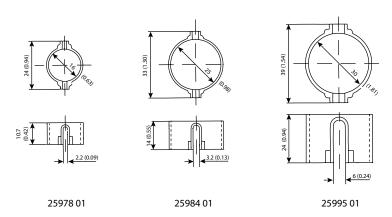
Tubing fo	Tubing for 045, 284, 384 Series											
Tubing S	Sizes mm	(inches)	Length	Tubing Catalog								
ID	OD	Wall	m (ft)	Number								
0.762	1.65	0.444	1.52 (5)	P099AU521738105								
(0.030)	(0.065)	(0.0175)	15.2 (50)	P099AU521738150								
0.794	2.38		1.52 (5)	P099AU521738205								
(1/32)	(3/32)	0.794	15.2 (50)	P099AU521738250								
1.59	3.17	(1/32)	1.52 (5)	P099AU521738305								
(1/16)	(1/8)		15.2 (50)	P099AU521738350								
1.59	4.76		1.52 (5)	P099AU521738405								
(1/16)	(3/16)		15.2 (50)	P099AU521738450								
3.17	6.35		1.52 (5)	P099AU521738505								
(1/8)	(1/4)	1.59	15.2 (50)	P099AU521738550								
4.76	7.94	(1/16)	1.52 (5)	P099AU521738605								
(3/16)	(5/16)		15.2 (50)	P099AU521738650								
6.35	9.52		1.52 (5)	P099AU521738705								
(1/4)	(3/8)		15.2 (50)	P099AU521738750								

Tubing Guide

ASCO offers plastic tubing guides that slide easily onto the valve body of the pinch valves to retain small OD tubing in the pinch valve body.

Dimensions: mm (inches)

Tubing Guide



Tubing Guide Catalog Number	Max OD of Tubing	Valve Series
		SCH284A001
		SCH284A002
		SCH284A003
		SCH284A004
		SCH284A009
2597801	2.2	SCH284A010
2397001	(0.09)	SCH284A011
		SCH284A012
		SCH384A001
		SCH384A002
		SCH384A003
		SCH384A004
	3.2	SCH284A005
2598401	(0.13)	SCH284A013
	(0.10)	SCH394A005
		SCH284B006
		SCH284B007
2500501	6	SCH284B014
2599501	(0.24)	SCH284B015
		SCH384B006
		SCH384B007

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SOLENOID VALVES INFORMATION & TERMINOLOGY

Solenoid Valves

A solenoid valve is a combination of two functional units:

- 1. A solenoid operator essentially consisting of a coil, core, core tube, shading coil and
- 2. A valve body containing orifices in which a disc, diaphragm or piston, etc. is positioned according to the type of technology used.

The valve is opened or closed by movement of the magnetic core which is drawn into a solenoid when the coil is energized.

Solenoid Valve Terminology

Coil

Electrical part of the valve consisting of a spool wound with insulated copper wire creating a magnetic flux when energized.

The coil is held in place on the tube with a retaining clip.

Core

Soft-magnetic component moved by magnetic forces (flux generated by the coil).

Core spring

Spring which keeps the core in fixed position when the coil is de-energized.

Core tube

Stainless steel tube closed at one end, installed to improve the magnetic flux of the solenoid coil upon energization.

Cover mounted on the valve body and incorporating a number of orifices.

Diaphragm

Seal-tight diaphragm isolating the fluid from the control system.

Sealing material on the core or disc-holder which shuts off the seat orifice.

Manual operator

Manual operation of the lever to open or close the orifices

Manual operator spring

Drawback spring ensuring return of the pulse control device to its initial position.

Orifices

Orifices for fluid transit.

Plugnut

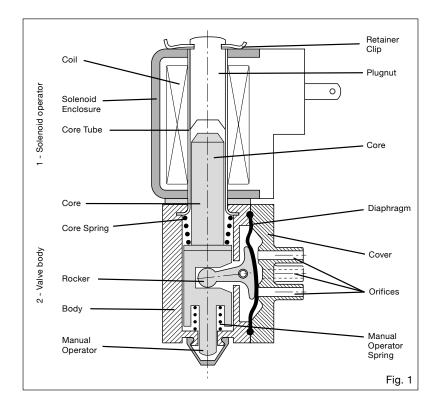
Stationary core pressed in the closed end of the core tube, installed to improve the magnetic flux of the solenoid coil upon energization.

Retainer clip

Clip anchoring the coil to the yoke.

Moving part serving to open and close the orifices for the passage of fluid.

Valve seat



Specially formed border of the main valve.

Solenoid enclosure

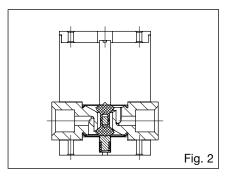
Metal housing around the coil for electrical and mechanical protection, as well as protection against ingress of water or dust.

Valve body

Main part of the valve with all ports and main

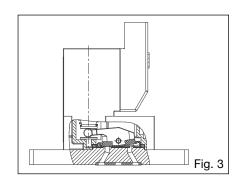
Types of Solenoid Valves

2/2-3/2 Solenoid Valves with Fluid Isolation



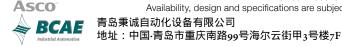
Diaphragm (Fig. 2)

Diaphragm type solenoid valves are compact, have a very extended service life and a very small internal volume. They are ideal for handling agressive fluids. The valve body is in stainless steel or plastic (PVDF/PP), with a diaphragm in VMQ (silicone), FKM or PTFE. Low power rating.



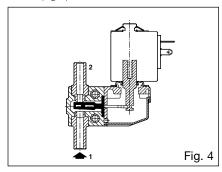
Rocker (Fig. 3)

Rocker type solenoid valves are compact, and designed to incorporate a hermetic seal between fluid and control system. These valves are ideal for handling aggressive fluids, or where a maximum level of fluid purity is required. Low power rating and fast response



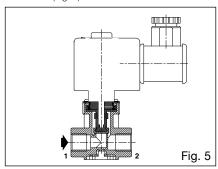
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Lever (Fig. 4)



Lever type solenoid valves are designed for high differential pressures and flow rates. Heat dissipation for the electromagnetic part is optimised by separating the control system from the valve itself. These valves are ideally suited for high ambient temperatures. Threaded or spigot connections.

Bellows (Fig. 5)



Bellows solenoid valves ensure exceptional operating reliability under severe service conditions and extended life service. A body in PEEK or stainless steel, bellows in PTFE and disc in FFKM make these valves suitable for handling highly corrosive fluids at substantial flow rates. Threaded connections.

Pinch (Fig. 6)

Pinch type solenoid valves provide full bore flow (no internal volume) and extended service life. This is achieved by means of the pinch device, designed specially to operate smoothly with a balanced load. No contamination of the fluid is possible, and operation of the valve is silent. Bidirectional fluid flow.

Direct operated 2/2 solenoid valves

The core is mechanically connected to the disc and opens or closes the orifice, depending on whether the solenoid coil is energized or de-energized.

Core-disc valve construction (Fig. 7)

Operation is not dependent upon line pressure or rate of flow (zero or maximum rated pressure). These valves are generally available in 2/2 NC/NO and 3/2 NC/NO/U

NC = Normally Closed

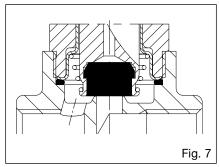
NO = Normally Open

= Universal

Pressures

Maximum operating pressure differential - MOPD

The maximum operating pressure differential (DP) is the pressure the solenoid operator has to overcome to open (NC function) or



close (NO function) a solenoid valve.

The maximum operating pressure differential refers to the maximum difference in pressure between the inlet and outlet.

If the pressure at the outlet is zero, the supply pressure is to be regarded as the maximum operating pressure differential. In this case, in order to prevent coil burnout, the pressure at the inlet must not exceed the maximum operating pressure differential specified for

The maximum operating pressure differential may vary according to the fluid or type of power used (AC valves usually have higher pressure ratings than DC valves).

Minimum operating pressure differential

Minimum operating pressure differential (bar) is that which is required to open the valve and keep it open. The valve will start to close below the minimum operating differential

Maximum allowable pressure

(according to EN 764)

The maximum allowable pressure is the maximum line or system pressure to which the valve may be subjected in normal service and at a given temperature, generally, ambient temperature, without causing damage.

Temperatures

Normal ambient temperature

The normal ambient temperature is assumed to be in accordance with standard conditions as specified in ISO 554

ambient temperature : 20 °C (68 °F)

ambient pressure 1013 mbar

(14.69 psi)

relative humidity : 65%

Maximum ambient temperature

The maximum ambient temperature is based on test conditions to determine safe limits for coil insulation. The temperature is determined under continuously energized conditions and

with maximum fluid temperatures (as listed) existing in the valve.

Minimum ambient temperature

The minimum ambient temperature of a valve is greatly affected by application and construction.

Damage may occur when liquids solidify above the specified minimum temperature. Be sure to observe minimum and maximum

Maximum fluid temperature

The maximum fluid temperature listed is valid for an ambient temperature of 20 °C (68 °F) and 100% RD (Relative Duty Time).

Viscosity

Viscosity is the resistance of a fluid to flow, due to internal friction. Viscosity affects the flow rate of a valve considerably and the flow factor is reduced when viscous fluids are to pass through the valve.

There are two types of viscosity:

- dynamic viscosity, expressed in Pa.s (Pascal seconds) or Poises
- kinematic viscosity, which is the ratio between dynamic viscosity and density

Kinematic viscosity is expressed in mm²/s or cStokes; in this catalog only kinematic viscosity is considered.



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VALVE CONSTRUCTION **MATERIALS**

Rubbers

CR (chloroprene)

Principally used in refrigeration systems (Freon 22) as an external seal. Neoprene is also utilized for oxygen service valves. Suitable for alcohol, mild acids, water, air, ammonia, argon gas and other gases

It has a temperature range of -20 °C (-4 °F) to 90 °C (194 °F).

CSM (chlorosulfonated polyethylene)

Used to handle strong oxidizing fluids, edible liquids, and many other common chemicals, etc. Not recommended for aromatic or chlorinated hydrocarbons. It has a temperature range of -40 °C (-40 °F) to 120 °C (248 °F).

Hypalon® is an example for CSM; it is part of the family of elastomers

(Hypalon® is a registered trademark of Dupont Performance Elastomers)

EPDM (ethylene-propylene)

Suitable for temperatures above the NBR range (i.e. excellent for phosphate ester type fluids; not recommended for use with petroleum base fluids), except ethylene-propylene has a somewhat higher temperature range than NBR. Useful as "O" ring gaskets on steam valves due to low compression set.

Ethylene-propylene is generally suitable for most photographic solutions as well as numerous chemical solutions.

Ethylene-propylene is selected for applications which have a wider temperature range than the NBR temperature range, such as handling hot water and steam. Ethylenepropylene has an extremely wide range of fluid compatibility but has the distinct disadvantage that it cannot be used with petroleum-based fluids or contaminated fluids (such as lubricated air). It has a temperature range of -20 °C (-4 °F) to 180 °C (356 °F).

FFKM (perfluoroelastomer)

Elastomer used in the manufacture of joints and seals, combining resistance to aggressive chemical environments, swelling and high temperatures. Particularly suitable for pharmaceutical applications requiring extreme conditions of cleanliness.

Kalrez® is an example for FFKM; it is part of the family of elastomers.

(Kalrez® is a registered trademark of Dupont Performance Elastomers)

FKM (fluoroelastomer)

Suitable for temperatures above the NBR range. Excellent resistance to many petroleum oils, gasoline, dry-cleaning fluids and jet fuels. Not compatible for ketones halogenated hydrocarbons and freons.

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FKM is a fluorocarbon elastomer which was primarily developed for handling hydrocarbons such as jet fuels, gasolines, solvent, etc., which normally caused detrimental swelling to NBR. FKM has a high temperature range similar to ethylenepropylene but has the advantage of being somewhat more resistant to "dry heat" FKM has a rather wide range of chemical compatibility. It has a temperature range of -40 °C (-40 °F) to 190 °C (374 °F).

Viton® is an example for FKM; it is part of the family of elastomers.

(Viton® is a registered trademark of Dupont Performance Elastomers)

FVMQ (fluorosilicone)

A silicone with a trifluoropropyl group on each siloxane unit. Good resistance to heat and most solvents. Good low temperature characteristics.

NBR (nitrile)

Standard compound for service in petroleum oils, air, water, mild acids, acetylene, kerosene, lime solutions, liquified petroleum gases and turpentines. Not recommended for highly aromatic gasolines or acids

NBR is commonly referred to as a nitrile rubber and is standard synthetic elastomer for accomplishing resilient-type seating or sealing in most values. It has excellent compatibility for most air, water and light oil applications. It has a temperature range of .20 °C (-4 °F) to +90 °C (194 °F).

Buna® is an example for NBR; it is part of the family of elastomers.

(Buna® is a registered trademark of DuPont de Nemours and Company or its affiliates)

SBR (styrene butadiene)

SBR is a polymer used in the manufacture of seals. Good resistance to swelling in acids, non-organic and organic bases, alcohols and water.

UR (urethane)

Used for water, air at normal ambient temperatures, alcohol, non-aromatic compounds, ether, edible fats and oils and hydraulic fluids. Its principal assets are high strength and excellent abrasion resistance. It is not recommended for ketones and strong oxidizing agents. It has a temperature range of -30 °C (-22 °F) to 40 °C (104 °F).

VMQ (silicone)

Known as the only elastomer which, under certain conditions, can be utilized for both high and low temperature, which is its principal use. Also handles hydrogen peroxide and some acids. Not good for steam; poor disc life. Fluorosilicone compounds are noted to have better fuel resistance.

Note:

Temperature limitations for elastomers are somewhat dependent on their specific functional usage in a valve.

Obviously, a diaphragm which stiffens at low temperature is objectionable while an "O" ring gasket of similar material which stiffens at low temperature may still be performing its sealing function.

Generally, temperatures down to -20 °C (-4 °F) can be considered tolerable and special elastomers such as silicone and low temperature NBR must be selected for use below this temperature.

These elastomers can extend the lower limit to approximately -40 °C (-40 °F) depending on specific usage. The upper limit for elastomers is generally around 100 °C (212 °F), except FKM, EPDM and VMQ which can, on specific applications, be utilized up to 190 °C (374 °F).

PTFE (see following page) is a commonly used gasket or disc material not considered an elastomer. This unique chemical-resistant material can be used from -270 $^{\circ}$ C (-454 $^{\circ}$ F) to 250 °C (482 °F) with proper design limitations.

Plastics

PA (polyamide)

Polyamide resins are known to be very durable and also resistant to many chemicals. A heat resistant type polyamide is always used in ASCO valves.

PARA (polyarylamide)

Aromatic polyamide in which at least one monomer contains a benzene ring, giving it improved mechanical, thermal and chemical resistance.

lxef® is an example for polyarylamide; it is part of the family of thermoplastics.

(Ixef® is a registered trademark of Solvay S.A.)

PC (polycarbonate)

Good with polar solvents, salt solutions and water applications. Not recommended for non-polar solvents. A polycarbonate type thermoplastic known for having high impact strength and good resistance to inorganic acids and aliphatic hydrocarbons. Not suitable for use with air containing phosphate esters (found in synthetic oils).

PE (polyethylene)

A family of plastics varying from low melting point to high heat distortion temperature; and from flexible to rigid. Although somewhat soft, they offer good electrical, chemical and moisture resistance and physical properties.





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PEEK (polyetheretherketone)

High performance thermoplastic with exceptional resistance to a wide range of chemical environments and high temperatures.

PEI (polyetherimide)

This resin has good heat deflection characteristics. Good chemical resistance to non-oxidizing acids and polar solvents. Questionable usage on alkaline solutions.

Ultem® is an example for PEI; it is part of the family of plastics.

(Ultem® is a registered trademark of General Electric Company)

POM (polyacetal or polyoxymethylene)

Acetal resin type thermoplastics are extremely rigid but not brittle. They provide good toughness, tensile strength, stiffness and long life. They are non-toxic and resistant to most solvents

Delrin® is an example for polyacetal; it is part of the family of plastics.

(Delrin® is a registered trademark of DuPont de Nemours and Company or its affiliates)

PP (polypropylene)

A thermoplastic known to have excellent resistance to inorganic salts, mineral acids and gases. It offers good resistance to photographic solutions and is one of the few plastics that has the ability to withstand steam sterilization.

PPS (polyphenylene sulfide)

This resin has outstanding chemical resistance and no known solvents below 200 °C (392 °F) It has low friction, good wear resistance and high tensile strength.

Ryton® is an example for PPS; it is part of the family of plastics.

(Ryton® is a registered trademark of Chevron Philips Chemical Company)

PSU (polysulfone)

Known as one of the most heat resistant of the thermoplastics. It has excellent chemical resistance when used for inorganic acids, alkalies and aliphatic hydrocarbons.

PTFE (polytetrafluoroethylene)

A fluorcarbon resin known to be suitable for disc material where all other synthetic materials have failed. Teflon® is not easily fabricated and is known to have objectionable "cold flow" characteristics.

Teflon® is an example for PTFE; it is part of the family of plastics.

(Teflon® is a registered trademark of DuPont de Nemours and Company or its affiliates)

PTFE Reinforced

PTFE reinforced is a form of PTFE having fillers which have been added for improved mechanical properties. PTFE and TPFE with fillers are considered more of a plastic than a resilient-type material. They are virtually unattacked by any fluid. Their temperature usage ranges from discs for cryogenic valves to discs for steam valves. The "cold flow" characteristics may contribute to leakage particularly on gases. They have a temperature range of -270 °C (-454 °F) to 250 °C (482 °F).

Rulon® is an example for reinforced PTFE, it is part of the family of plastics.

(Rulon® is a registered trademark of Saint Gobain Performance Plastics Corporation)

PUR (polyurethane)

Polyurethane is a multipurpose, robust product. It has good adhesion to a variety of substrates, providing resistance to humidity and impact strength.

PVC (polyvinyl chloride)

Known for its chemical inertness but has somewhat less temperature resistance than most other plastics. PVC has excellent resistance to strong alkalies, mineral acids, salts and many chemicals corrosive to conventional materials.

PVDF (polyvinylidene fluoride)

Polymer resistant to atmospheric agents and the majority of chemical products at ambient temperature. High purity PVDF compounds are particularly recommended for medical applications.

TPE (thermoplastic polyester elastomer)

Used in some diaphragm applications. HYT elastomers show high strength in tension, compression and flex. They are superior to polyurethane rubbers in load-bearing

Hytrel® (HYT) is an example for a polyester elastomer, it is part of the family of plastics.

(Hytrel® is a registered trademark of DuPont)

Metals

Ag (silver)

Shading coil material for stainless steel

Al (aluminum)

Shading coil material for special fluids or for making washers, etc. Die cast aluminum is generally used for bodies for low pressure gas valves and can only be used with "water free" systems. It can be noted that die cast aluminum is successfully used in oil and gasoline applications.

Cu (copper)

Primarily used for shading coil.

Cu Sn (bronze)

Casting bronze is used for body forging. Good sealing and casting properties, resistant to abrasion.

Cu Zn Pb (brass)

Forging brass is used in our body forgings. Forging brass has a composition of 59% copper, 2% lead and 39% zinc.

Fe Cr Ni (stainless steel AISI 303 or 304)

One of the most widely used steels containing 18% chromium and 8% nickel. Used for valve bodies, springs and internal parts. Known as stainless steel type 303 or

Fe Cr Ni Mo (stainless steel AISI 316)

Alloy containing approx 17% chromium, 12% nickel and 2% molybdenum. Highly corrosion

Fe Cr Ni Mo (stainless AISI 316L)

Alloy containing 16 to 18% chromium, 11 to 14% nickel and 2.5 to 3% molybdenum. Valve bodies made from this material provide excellent resistance to particularly aggressive

Ni Fe (nickel iron)

Core material for low temperature fluids (below -100 °C) particularly for "long stroke" solenoids.

Pb (lead)

Used for lead-clad copper gaskets.

Zinc alloy containing approx. 4% aluminum, 0.04% magnesium and 1% copper. Used, for example, for the bodies of air treatment equipment.



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CHEMICAL RESISTANCE GUIDE

GENERAL

Our valves are available to control most acids, alcohol, bases, solvents and corrosive gases and liquids. Modified or special designs are sometimes required depending upon the fluid and application.

Corrosion occurs either as a chemical or electro-chemical reaction. Therefore, consideration must be given to both the galvanic and electromotive force series, as well as to pressure, temperature and other factors that might be involved in the application.

This guide provides information on most common corrosive and non-corrosive, unmixed gases and liquids.

Mixtures of different fluids and their

temperatures are not included in this table. It's the user's responsibility to ensure the chemical and physical compatibility of the body and other materials with the fluids used.

For applications where abnormal conditions exist and for other types of valves, operations and fluids, contact us with full details of the operating conditions.

Fluids					body	mate	erials	•							oth	ner m	ateria	als in	cont	act v	vith f	luid	
↑ = Excellent → = Acceptable □ = Not recommended □ Do not use □ = No data available	Steel	Stainless Steel AISI 303/304	Stainless Steel AISI 316	Stainless Steel AISI 316L	Aluminum	Bronze	Cast Iron	Brass	PA	PEEK	PPS	Silver	Copper	CR	EPDM	FFKM	FKM	NBR	UR	PET	POM	PTFE	TPE
Acetaldehyde	7	1	1	1	\rightarrow	1	1	1	\rightarrow	1	\rightarrow	1	1	7	1	1	1	1	1	7	1	1	\rightarrow
Acetic acid	7	\rightarrow	\rightarrow	\rightarrow	7	7	7	1	\rightarrow	1	1	1	7	7	\rightarrow	1	\rightarrow	\rightarrow	1	\rightarrow	1	1	1
Acetic anhydride	7	→	\rightarrow	→	\rightarrow	7	7	1	7	1	1	1	7	\rightarrow	→	1	\	7	1	→	1	1	\downarrow
Acetone	1	1	1	1	1	1	1	1	K	1	1	1	1	ĸ	1	1	1	1	1	1	→	1	1
Acetonitrile	→	1	1	1	1	-	1	-	-	1	-	-	-	1	\rightarrow	1	\downarrow	7	1	→	-	1	\rightarrow
Acetophenone	-	1	1	1	\rightarrow	-	1	1	1	-	\rightarrow	-	-	1	1	1	1	1	1	\rightarrow	-	1	-
Acetyl chloride	1	→	1	1	1	1	→	→	7	-	1	-	1	1	7	1	1	1	↓	↓	1	1	\downarrow
Acetylene	1	1	1	1	1	7	1	\rightarrow	7	1	7	1	1	7	1	1	1	→	1	1	1	1	1
Air (lubricated)	1	1	1	1	1	1	1	1	1	1	1	-	-	1	7	1	1	1	1	1	1	1	\uparrow
Air (unlubricated, dry)	1	1	1	1	1	1	1	1	1	1	1	-	-	1	1	1	1	1	1	1	1	1	1
Alcohol ethyl (ethanol)	1	1	1	1	→	1	1	1	1	-	-	1	→	1	1	1	→	1	1	1	1	1	1
Alcohol methyl (methanol)	1	1	1	1	\rightarrow	1	1	1	1	-	1	1	\rightarrow	1	1	1	1	1	1	1	1	1	1
Aluminum sulfate	7	→	1	1	1	7	1	~	7	1	1	→	→	1	1	1	1	\rightarrow	1	1	1	1	\rightarrow
Ammonia, anhydrous	1	1	1	1	7	\rightarrow	→	7	7	1	7	7	1	1	1	→	1	\rightarrow	1	<i>'</i>	<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	1	7
Ammonia, aqueous	1	→	1	1	J	7	→	1	7	-	7	7	7	→	1	→	→	7	1	1	1	1	-
Ammonia, water	1	→	1	1	↓	7	\rightarrow	1	7	_	7	7	7	\rightarrow	1	_	→	7	1	1	1	1	_
Ammonium hydroxyde	7	→	→	→	7	7	~	1	7	1	→	\downarrow	1	\rightarrow	1	→	→	7	1	1	→	1	→
Amyl acetate	7	→	→	\rightarrow	\rightarrow	1	7	→	1	1	1	-	1	1	1	1	1	1	1	→	1	1	7
Aniline	7	→	1	1	7	7	→	→	7	1	→	1	1	1	→	1	→	1	1	1	1	1	7
Argon	1	1	1	1	1	\rightarrow	\rightarrow	1	1	1	1	1	7	1	1	1	1	7	1	-	-	1	1
Barium chloride	7	→	1	1	1	1	7	1	7	1	1	-	→	1	1	1	1	1	1	1	1	1	→
Barium hydroxide	7	→	1	1	1	7	7	\rightarrow	7	-	1	1	1	1	1	1	1	1	→	1	1	1	\rightarrow
Benzaldehyde	1	1	1	1	1	1	1	→	→	1	→	1	→	1	\rightarrow	1	↓	1	1	↓	1	1	\rightarrow
Benzene pure	→	1	1	1	\rightarrow	1	\rightarrow	\rightarrow	7	1	\rightarrow	1	\rightarrow	1	1	1	1	1	1	\rightarrow	1	1	\rightarrow
Benzene sulfonic acid	→	1	1	1	1	\rightarrow	1	→	7	↓	→	1	7	\rightarrow	7	1	1	7	1	→	7	1	\rightarrow
Borax	→	1	1	1	7	1	1	\rightarrow	7	1	1	-	\rightarrow	\rightarrow	1	1	1	\rightarrow	1	1	1	1	1
Bromine	7	1	7	7	\downarrow	1	1	-	7	1	↓	\rightarrow	7	1	\downarrow	1	1	1	1	\rightarrow	1	1	\downarrow
Butadiene	1	1	1	1	1	1	1	1	7	-	1	-	7	\rightarrow	7	1	1	1	\	1	1	1	1
Butane	7	1	1	1	\rightarrow	\rightarrow	\rightarrow	1	1	1	1	-	7	1	\downarrow	1	1	1	7	\rightarrow	1	1	\rightarrow
Butanol (aqueous, butyl alcohol)	1	1	1	1	\rightarrow	1	\rightarrow	1	1	-	1	\rightarrow	\rightarrow	1	\rightarrow	1	1	1	\	\rightarrow	1	1	\rightarrow
Butylene	7	1	1	1	1	\rightarrow	1	7	1	-	1	-	1	7	\downarrow	1	1	\rightarrow	1	\rightarrow	1	1	\rightarrow
Butyl acetate	1	1	1	1	1	1	1	\rightarrow	1	1	1	\rightarrow	1	1	\rightarrow	1	1	1	\	\rightarrow	\rightarrow	1	ĸ
Butylamine	1	1	1	1	1	\rightarrow	1	-	1	-	1	-	-	1	\downarrow	1	1	\	\	\rightarrow	1	1	↓
Butyl ether	1	1	1	1	1	-	1	-	1	1	1	-	-	7	K	1	1	\rightarrow	\rightarrow	\	1	1	↓
Calcium chloride	7	→	\rightarrow	→	1	→	\	-	7	1	1	1	→	1	1	1	1	1	1	1	1	1	1
Calcium sulfate	\rightarrow	→	1	1	\rightarrow	→	1	\	7	1	1	1	→	1	1	1	1	1	1	1	1	1	-
Carbon dioxide (wet/dry)	1	1	1	1	1	→	1	\	1	-	1	1	1	\rightarrow	\rightarrow	1	1	1	1	1	1	1	7
Carbon tetrachloride	1	7	7	7	1	1	\	1	7	1	→	→	7	1	\	1	1	R	\	\rightarrow	1	1	1
Caustic soda	→	1	1	1	\downarrow	→	\rightarrow	\rightarrow	1	1	\rightarrow	-	-	\rightarrow	1	1	\rightarrow	7	\rightarrow	-	1	1	\rightarrow
Cellosolve	1	→	1	1	\rightarrow	-	\rightarrow	1	1	-	1	-	-	1	\rightarrow	1	7	\	\	1	1	1	1
																							_

Please note that the chemical resistance may be influenced by many factors, such as temperature, concentration, etc. This data is for reference only.





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Fluids					body	/ mate	erials								oth	er m	ateria	als in	cont	tact v	vith f	luid	
↑ = Excellent		<u>•</u>	<u>•</u>	<u>σ</u>								1											Π
→ = Acceptable		Steel /304	Steel	Steel	_																		
y = Not recommended		33/3	SS 9	SS PS	를	_ n	l o						_										
↓ = Do not use	<u>a</u>	150	들은	<u>= 55</u>	Aluminum)ZL	Cast Iron	SS		쑮	ဟ	ē	l ad		EPDM	₹	=	<u>~</u>		<u>_</u>	Σ	肥	ш
- = No data available	Steel	Stainless AISI 303/3	Stainless 3 AISI 316	Stainless AISI 316L	₩	Bronze	Š	Brass	₽	PEEK	PPS	Silver	Copper	8	<u> </u>	FFKM	Α̈́	NB.		F	POM	PTE	표
Chlorobenzene	→	→	1	1	1	1	7	1	7	1	1	→	→	1	1	1	1	1	1	→	1	1	↓
Chloroform	7	1	1	1	1	1	7	→	1	1	→	1	\rightarrow	J	1	1	1	J	1	1	1	1	7
Chlorosulfonic acid	7	7	7		1	7	\downarrow	→	7	7	↓	-	↓	1	1	1	7	1	1	, V	1	1	1
Chlorine (wet)	- K	- K	→	_ →	1	_ →	7	1	7	<u> </u>	1	-	-	1	7		1	1	1	1	1	1	1
Chromic acid (25%)	~	7	1	1	7	7	<u> </u>	1	-	7	1	1	1	1	1	1	1	1	1	→	1	1	1
Chromic acid, concentrated	7	7	<i>K</i>	7	J	7	1	1	→	7	1	-	1	1	<i>K</i>	1	1	J	1	→	1	1	1
,	-	1	1	1	-	-	-	1	-	-	-	-	1	→	→	1	1	1	→	-	<u>Ψ</u>	<u>'</u>	-
City gas	-	1	1	1	1	_	_	-	_				1	_	1	1		1		1		· ·	
Coffee	7				-	1	7	-	1	-	-	-		1			↑		 	<u> </u>	1	1	-
Coke oven gas	1	1	1	1	-	→	1	71	-	_	-	1	1	7	↓	1	1	7	1	-	-	1	-
Detergent	→	1	1	1	1	1	→	→	1	-	1	-	-	\rightarrow	1	1	1	1	↓	1	1	1	→
Diesel fuel	1	1	1	1	1	1	1	1	1	-	1	1	1	→	↓	1	1	1	7	\rightarrow	1	1	→
Dimethyl formamide	\rightarrow	1	1	1	1	→	\rightarrow	7	1	1	\rightarrow	-	1	↓	\rightarrow	1	R	\rightarrow	↓	1	R	1	→
Dimethyl phtalate	1	1	1	1	1	-	1	1	1	-	1	-	-	↓	\rightarrow	1	\rightarrow	↓	-	1	-	1	1
Ethylene chloride	1	\rightarrow	1	1	\rightarrow	1	7	\rightarrow	1	1	\rightarrow	1	7	1	R	1	\rightarrow	1	1	R	1	1	7
Ethylene diamine	\rightarrow	\rightarrow	1	1	1	\rightarrow	1	1	\rightarrow	-	\rightarrow	-	1	1	1	\rightarrow	1	1	1	1	1	1	-
Ethylene dichloride	1	\rightarrow	\rightarrow	\rightarrow	\rightarrow	1	1	1	1	\rightarrow	\rightarrow	1	\rightarrow	1	R	1	\rightarrow	1	1	1	1	1	7
Ethylene glycol	\rightarrow	\rightarrow	1	1	\rightarrow	1	\rightarrow	\rightarrow	1	1	1	1	\rightarrow	1	1	1	1	1	\rightarrow	1	\rightarrow	1	1
Ethylene oxide	→	1	1	1	1	1	7	1	7	-	1	7	1	1	7	1	1	1	1	7	1	1	1
Ferric chloride	1	T	7	7	T	7	J	\downarrow	1	\rightarrow	1	→	\downarrow	\rightarrow	1	1	1	1	1	1	→	1	1
Ferrous chloride	1	1	7	7	1	7	1	1	<i>'</i>	1	1	→	<i>'</i>	\rightarrow	1	1	1	1	-	1	→	1	1
Formaldehyde	→	7	1	1	→	1	1	→	1		7	1	→	\rightarrow	1	1	_ ·	_ ·	1	1	1	1	-
Formic acid	7		1	1	1	<i>'</i>	1	→	7	→	1	-	1	1	1	1	7	7	1	1	1	1	→
Freon 11	→ ¬	1	1	1	7	1	→	, →	7	1	1	1	1	 	 		1		1	1	1	1	1
Freon F-12	→ —	1	1		1	1	→	→	<i>R</i>	1			1	1	→	-	 →	→	1	1			1
* * *	→	<u> </u>		1						-	1	1	 →	 →	 →			→	 \		1	1	1
Freon 22		1	1	1		_	1	1	1	1	1	1				1	→	_		↓	1	1	<u> </u>
Freon T WD602	→	1	1	1	1	-	-	1	1	-	1	-	1	\rightarrow	→	→	1	→	1	-	-	1	-
Fuel oil	1	1	1	1	1	1	\rightarrow	\rightarrow	1	-	1	1	7	→	1	1	1	1	7	1	\rightarrow	1	\rightarrow
Fuel oil #6	1	1	1	1	71	1	1	1	1	-	1	-	71	↓	↓	1	1	\rightarrow	\rightarrow	-	1	1	1
Fuel ASTM Ref Fuel A	1	1	1	1	R	1	1	1	1	-	1	-	7	\rightarrow	↓	-	1	1	1	-	↓	1	1
Fuel ASTM Ref Fuel B	1	1	1	1	7	1	1	1	1	-	1	-	7	↓	↓	-	1	1	\rightarrow	-	↓	1	1
Fuel ASTM Ref Fuel C	1	1	↑	↑	7	1	↑	↑	↑	-	↑	-	7	↓	↓	-	↑	→	↓	-	↓	↑	1
Fuel ASTM #1 Oil	1	1	1	1	K	1	1	1	1	-	1	-	-	1	↓	-	1	1	1	-	↓	1	1
Fuel ASTM #2 Oil	1	1	1	1	7	1	1	1	1	-	1	-	-	\rightarrow	1	-	1	1	\rightarrow	-	1	1	1
Fuel ASTM #3 Oil	1	1	1	1	R	1	1	1	1	-	1	-	-	R	1	-	1	1	\rightarrow	-	1	1	1
Fuel ASTM #4-5 Oil	1	1	1	1	7	1	1	1	1	-	1	-	-	\downarrow	1	-	1	\rightarrow	\downarrow	-	\downarrow	1	1
Furan	-	1	1	1	1	-	1	-	-	-	1	-	-	1	1	1	7	1	-	7	1	1	-
Furfural	1	1	1	1	1	1	1	\rightarrow	→	-	1	→	→	↓	\rightarrow	1	↓	↓	7	1	→	1	→
Gasoline (petrol)	1	1	1	1	-	1	1	1	1	1	1	1	7	→	1	1	1	1	→	1	1	-	1
Gasoline 100 octane	-	1	1	1	-	-	-	7	1	-	1	-	-	\rightarrow	J	-	1	1	→	J	1	1	1
Glycogenic acid	7	1	1	1	-	→	7	-	· →	-	1	-	-	-	→	-	-	V	→	1	1	1	·
Glycol	1	1	1	1	-	1	1	-	-	1	1	1	1	1	1	1	1	1	→	· ·	1	1	-
Helium	1	1	1	1	1	1	1	1	→	1	1	-	Ė	1	1	1	1	1	1	1	1	1	<u> </u>
Heptane	1	1	1	1	1	1	1	1	1	1	1	1	1		 	1	1	1	' →	-	1	1	
· .	 					_							-	J	\rightarrow			\	1				
Hydraulic fluids		1	1	↑	1	1	1	↑	1	-	1	-				1	↑			 	_	1	1
Hydraulic oil	1	1	1	1	1	1	1	1	7	-	1	1	1	→	↓	1	1	\	1	\	→	1	1
Hydrofluoric acid (50%)	1	1	7	7	1	7	↓	7	↓	↓	7	→	↓	→	1	1	→	7	↓	→	↓	1	↓
Hydrogen gas	1	1	1	1	1	1	1	1	→	1	1	1	1	1	1	1	1	1	1	1	-	1	1
Hydrogen peroxide (30%)	7	\rightarrow	\rightarrow	→	→	7	↓	↓	7	1	\rightarrow	↓	↓	↓	→	1	1	↓	-	1	↓	1	1
Hydrogen sulfide (dry hot)	7	71	1	1	7	7	7	7	7	1	\rightarrow	↓	↓	→	1	1	1	↓	\rightarrow	1	1	1	1
Isobutylene	1	1	1	1	1	1	1	1	1	-	K	-	-	↓	↓	1	1	7	7		-	1	-
Jet fuels (JP1 through 5)	1	1	1	1	1	1	1	1	7		1	-	-	7	1	1	1	1	\rightarrow	\rightarrow	1	1	-
Jet fuels (JP 6)	1	1	1	1	-	1	1	1	-	-	-	-	1	1	1	1	1	1	1	1	1	1	-
Kerosene (kerosine)	1	1	1	1	1	1	1	1	1	1	1	1	\rightarrow	\rightarrow	1	1	1	1	\rightarrow	→	1	1	1
Lactic acid	7	1	1	1	7	7	1	1	7	1	1	\rightarrow	7	\rightarrow	\rightarrow	1	1	7	-	1	1	1	1
Liquid natural gas (LNG)	-	1	1	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Liquid oxygen (LOX)	1	1	1	1	1	1	1	1	1	-	1	-	-	↓	1	→	↓	↓	1	-	-	1	-
Please note that the chemical resistance	1 mov	bo in	fluono			u foot	0 40 0		_ •		_		ntentie		Thi		1- 4-						

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Please note that the chemical resistance may be influenced by many factors, such as temperature, concentration, etc. This data is for reference only.

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Fluids					body	mate	erials	 S							oth	er m	ateria	als in	cont	act	vith fl	uid	
↑ = Excellent → = Acceptable > = Not recommended ↓ = Do not use - = No data available	Steel	Stainless Steel AISI 303/304	Stainless Steel AISI 316	Stainless Steel AISI 316L	Aluminum	Bronze	Cast Iron	Brass	PA	PEEK	PPS	Silver	Copper	CR	EPDM	FFKM	FKM	NBR	UR.	PET	POM	PTFE	TPE
Liquid petroleum gas (LPG)	-	1	1	1	7	Ε.	_	-	<u> </u>	_	-	1	1	→	<u> </u>	1	1	1	1	<u></u>	<u> </u>	1	-
Lubricating oils, di-ester	1	1	1	1	_	1	1	-	, →	_	1	1	1	7	1	1	1		_ ·	-	_	1	1
Lubricating oils, petroleum base	1	1	1	1	1	-	1	1	-	-	-	-		 →	\rightarrow	<u> </u>	1	→	→	7	1	1	1
Lubricating oils, SAE 10, 20, 30, 40	1	1	1	1	1	_	1	1	-	_	_	_	_	→	→	1	1	1	→	<i>'</i>	1	1	1
Magnesium acetate	1	1	1	1	<u> </u>	7	7		→	-	1	-	-	_	\uparrow	-	<u> </u>	<u> </u>	_	1	-	1	<u> </u>
Magnesium hydroxide	1	1	1	1	1	7	→	→	→	1	1	7	7	\rightarrow	1	1	1	→	7	1	1	1	→
Methane	<u> </u>	1	1	1	1	1	1	1	1	1	1	1	1	\rightarrow	<u> </u>	1	1	1	7		1	1	→
Methyl ether ketone (MEK)	1	1	1	1	1	1	1	1	· →	V	→	1	1	1	<u> </u>	1	<u>↓</u>	<u> </u>	1	7	· →	1	→
Mineral oil	<u> </u>	1	1	1	<u> </u>	<u> </u>	1	1	1	-	1	1		→	<u> </u>	<u> </u>	1	1	1	→	1	1	1
Morpholine		→	→	→	1	→	· →	-	→	-	→	-	-	1	↓	1	1	1	_	-	-	1	·
Naphta	1	1	1	1	1	1	\rightarrow	7	1	-	\rightarrow	1	→	, V	-	<u> </u>	1	7	7	7	1	1	1
Natural gas	_ _	1	1	1	1	1	\rightarrow	→	1	1	1	1	→	1	\	1	1	1	\rightarrow	1	1	1	· →
Nitric acid (10%)	7	1	1	<u> </u>	\	7	J.	1	7	<u> </u>	7	-	J		→	<u> </u>	1	<u> </u>	7	1	7	1	→
Nitric acid, concentrated	1	1	1	1	1	1	1	1	1	<i>لا</i>	1	-	1	1	Ţ	→	1	1	1	1	7	1	1
Nitro benzene	1		1	1	7	→	7	-	7	1	→	1	, V	J	-	1		1	J	→	→	1	Ţ
Nitro methane		1	1	1	1	\rightarrow	\rightarrow	-	→	-	\rightarrow	-	1	<i>لا</i>	→	1	1	J	1	7	1	1	1
Nitrogen	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	→
Nitro propane	-	1	1	1	1	-	1	-	-	-	-	-	-	1	→	1	1	1	1	-	-	1	-
Octane	-	Ė	1	1	-	-	-	-	-	-	-	-	-	J	1	1	1	1	J	1	-	1	-
Octane carboxylic acid	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	1	1	-	-	1	-
Octanol	T -	-	1	1	-	-	-	-	-	-	-	-	-	\rightarrow	1	-	1	\rightarrow	1	-	-	1	-
Oleic acid	7	\rightarrow	1	1	1	\rightarrow	\rightarrow	7	1	-	-	1	7	\rightarrow	K	1	\rightarrow	\rightarrow	\rightarrow	1	1	1	1
Olive oil	1	\rightarrow	1	1	1	1	1	→	→	-	1	-	-	\rightarrow	→	1	1	1	1	1	1	1	-
Oxygen, cold	\rightarrow	\rightarrow	\rightarrow	\rightarrow	\rightarrow	\rightarrow	-	1	-	-	-	-	\rightarrow	1	1	1	1	\rightarrow	1	-	-	1	-
Oxygen 121 - 204 °C (250 - 400 °F)	T -	-	-	-	-	-	-	-	\downarrow	-	\downarrow	-	-	\downarrow	1	1	\downarrow	1	1	-	-	1	-
Oxygen, gas	1	1	1	1	-	1	1	1	\rightarrow	-	1	\rightarrow	1	\rightarrow	1	-	1	1	1	-	-	1	-
Ozone (dry)	1	1	1	1	\rightarrow	1	1	1	7	7	7	\rightarrow	1	7	1	1	1	1	1	1	1	-	7
Palm oil	7	1	1	1	1	7	1	-	-	-	-	-	1	K	-	-	1	1	\rightarrow	-	1	1	-
Palmic acid	7	\rightarrow	1	1	\rightarrow	7	7	7	1	-	\rightarrow	-	\rightarrow	\rightarrow	\rightarrow	1	1	1	1	-	-	1	-
Paraffin	1	1	1	1	1	1	1	1	1	1	-	-	\rightarrow	\rightarrow	1	1	1	1	\rightarrow	1	1	1	-
Pentane	-	\rightarrow	1	1	1	-	\rightarrow	1	\rightarrow	-	-	1	\rightarrow	1	\	1	1	1	1	-	1	1	-
Pentanol	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	\rightarrow	\rightarrow	1	-	-	1	-
Perchloroethylene ("Perk")	\rightarrow	1	1	1	1	\rightarrow	\rightarrow	-	7	1	1	1	\rightarrow	1	→	1	1	1	1	1	1	1	1
Petrol	→	1	1	1	\rightarrow	1	\rightarrow	7	1	1	1	-	-	\rightarrow	\	1	1	1	\rightarrow	1	1	1	-
Petroleum benzine	1	1	1	1	7	-	1	\rightarrow	\rightarrow	-	1	-	-	\rightarrow	1	-	1	1	\rightarrow	-	-	1	-
Petroleum ether	\rightarrow	1	1	1	\rightarrow	-	\rightarrow	1	1	1	1	-	-	\rightarrow	\	1	1	1	\rightarrow	1	1	1	-
Petroleum naphtha	1	1	1	1	7	1	-	-	\rightarrow	-	-	-	-	\rightarrow	1	-	1	1	\rightarrow	-	\rightarrow	1	-
Petroleum oil above 121 °C (250 °F)	1	1	1	1	7	1	-	-	\rightarrow	-	-	-	-	→	\rightarrow	1	\rightarrow	1	→	-	\rightarrow	1	-
Petroleum oil below 121 °C (250 °F)	1	1	1	1	Ŋ	1	-	-	\rightarrow	-	_	1	1	\rightarrow	→	1	\rightarrow	1	\rightarrow		\rightarrow	1	
Phenol	\rightarrow	\rightarrow	\rightarrow	\rightarrow	\rightarrow	\rightarrow	\	\rightarrow	R	\rightarrow	1	1	\rightarrow	1	\	1	1	1	\	R	1	1	1
Phenilic acid	-	-	1	<u> </u>		\rightarrow	_	1	-	-			-	1	→	_	\rightarrow	1	1		-	1	-
Phosphoric acid 10%	\rightarrow	\rightarrow	\rightarrow	\rightarrow	\downarrow	\rightarrow	\	1	7	1	1	\rightarrow	1	\rightarrow	1	1	1	1	1	1	1	1	-
Phosphoric acid, concentrated	7	1	→	↓	↓	7	↓	1	1	K	1	\rightarrow	1	→	→	1	1	1	1	1	1	1	↓
Pine oil	-	1	1	1	1	1	\rightarrow	\rightarrow	1	1	\rightarrow	-	-	1	→	1	1	\rightarrow	-	-	1	1	1
Poly propylene glycol	1	1	1	1	1	1	\rightarrow	1	\rightarrow	-	1		-	1	1	1	1	1	-	1	1	1	-
Potassium acetate	-	\rightarrow	\rightarrow	\rightarrow	↓	-	1	-	-	-	-	1	\rightarrow	\rightarrow	1	1	1	\rightarrow	↓	1	1	1	-
Potassium bicarbonate	1	\rightarrow	→	\rightarrow	\	\rightarrow	K		\rightarrow	-	-	-	1	1	-	1	1	1	-	-	K	1	-
Potassium carbonate	1	\rightarrow	1	1	\	\rightarrow	1	\rightarrow	\rightarrow	1	1	-	-	1	1	1	1	1	-	-	-	1	-
Potassium chloride	7	7	R	7	\rightarrow	1	\rightarrow	↓	\rightarrow	1	1	↓	\rightarrow	1	1	1	1	1	1	1	1	1	↓
Potassium hydroxide (50%)	\rightarrow	1	1	1	↓	7	7	↓	7	1	\rightarrow	\rightarrow	7	\rightarrow	\rightarrow	1	7	7	\rightarrow	1	1	1	1

Please note that the chemical resistance may be influenced by many factors, such as temperature, concentration, etc.

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Fluids					body	mate	erials								oth	er m	ateria	als in	cont	act v	vith f	uid	
↑ = Excellent → = Acceptable ∨ = Not recommended ↓ = Do not use - = No data available	Steel	Stainless Steel AISI 303/304	Stainless Steel AISI 316		Aluminum	Bronze	Cast Iron	Brass	PA	PEEK	PPS	Silver	Copper	85	EPDM	FFKM	FKM	NBR	H.	PET	POM	PTFE	TPE
Potassium nitrate	→	7	1	1	1	1	\rightarrow	\rightarrow	\rightarrow	1	1	7	→	1	1	1	1	1	1	1	\rightarrow	1	-
Potassium phosphate	\rightarrow	\rightarrow	· →	→	1	-	1	\rightarrow	\rightarrow	1	_	_	_	1	1	1	1	· →	_	_	_	1	_
Potassium sulfate	1	→	1	1	1	→	J	\rightarrow	\rightarrow	1	1	→	→	1	1	1	1	1	1	_	-	1	-
Propane	1	1	1	1	1	1	→	\rightarrow	→	1	1	_	1	٧	Ţ	1	1	1	V	↓	1	1	→
Propanol	1	1	1	1	-	<u> </u>	1	1	→	1	1	-	i i	1	1	-	<u> </u>	<u> </u>		_	-	<u> </u>	-
Propylene	1	1	1	1	1	_	1	1	_	-	_	1	1	1	\	1	1	1	1	1	1	1	_
Propylene chloride	-	'	1	1	1	-	1	-	-	-	_	-	<u> </u>	1	J	1	'	J	1	-	-	1	_
Pydraul 10E, 29ELT	-	1	1	1	-	-	1	_	_	_	_	1	→	1	→	1	1	1	↓	_	-	1	_
Pyridine	1		1	1	→			- K	1	1	1	-	\ \rac{\begin{array}{c} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	↓	, →	1	1	1	1	- K		1	7
Saccharose		1	1	1	_	-	1	1	-	 -	 →	_	→	1	1	-	1	1	↓	-	_	1	_
SAE oils	_	-	-	-	_	-	-	-	_	_	-	_	→		1	_	1	1	1		-	1	-
Salt water		- K	- K	- K	1	1	<u> </u>		1	_	1	_	<i>→</i>	1	1	1	1	1	1	1	1	1	1
Soda	- →	↑ ↑	↑ ↑	↑ ↑	1	 →	→	↓	1	-	1	1	→		1	1	 →	<i>K</i>	→	-	1	1	 →
Sodium carbonate	1		1	1	7	1	→	→	 →	-	1	1	→	1	1	1	1	1		1	1	1	→
Sodium carbonate Sodium chloride	<i>R</i>	7	 →	 →		1	→ →		→ →	<u>-</u>		 →	→	1	1	1		1	-	1	1		
					7			7			,						1	-	1			1	1
Sodium hydroxide (caustic soda)	1	→	1	1	1	1	7	\	1	↑	→	1	7	→	1	↑	→	, 	→	1	1	1	1
Sodium hypochlorite	A	A	7	7	\	7	1	71	7	1	7	\rightarrow	1	7	→	1	1	7	1	\rightarrow	1	1	7
Sour natural gas	-	-	→	→	-	-	-	-	-	-	-	-	-	-	↓	1	↓	↓	1	-	-	1	-
Steam to 107 °C (225 °F)	1	1	1	1	↓	1	1	1	7	-	→	\rightarrow	→	7	1	1	↓	1	↓	-	-	1	-
Steam 107 - 148 °C (225 - 300 °F)	1	1	1	1	1	1	1	1	7	-	→	-	-	1	1	1	↓	↓	↓	-	-	1	-
Steam over 148 °C (300 °F)	1	1	1	1	↓	1	7	1	7	-	\rightarrow	-	-	1	R	1	↓	↓	↓	-	-	1	-
Stoddard solvent	1	1	1	1	1	1	1	-	1	-	7	-	1	7	1	1	1	1	1	1	1	1	7
Sulphur dioxide, liquid	1	\rightarrow	1	1	↓	\rightarrow	↓	. K	R	7	1	. K	R	→	1	1	1	↓	-	1	↓	1	1
Sulphuric acid, concentrated	7	→	→	→	1	7	↓	↓	R	↓	→	↓	↓	1	→	1	1	↓	1	7	1	1	7
Tetrachloroethylene	1	1	1	1	1	-	1	\rightarrow	71	-	\rightarrow	1	1	1	↓	1	1	1	↓	↓	1	1	-
Tetrahydrofuran	1	1	1	1	\rightarrow	1	-	-	1	1	R	-	-	1	→	1	↓	↓	7	K	↓	1	\rightarrow
Toluene	\rightarrow	1	1	1	1	1	1	1	1	1	\rightarrow	1	1	↓	↓	1	1	7	↓	-	R	1	7
Tri chloro ethylene	\rightarrow	\rightarrow	\rightarrow	\rightarrow	\rightarrow	\rightarrow	\rightarrow	1	7	1	\rightarrow	-	7	1	↓	1	1	71	↓	7	\rightarrow	1	↓
Tri chloro acetic acid	7	↓	7	7	1	-	↓	7	7	-	1	-	↓	7	\rightarrow	1	7	\rightarrow	1	\rightarrow	1	1	↓
Turpentine	1	\rightarrow	1	1	1	1	\rightarrow	R	\rightarrow	-	1	1	\rightarrow	1	↓	1	1	1	↓	\rightarrow	1	1	\rightarrow
Vaseline	1	1	1	1	-	-	1	1	1	-	1	-	-	\rightarrow	↓	-	1	1	1	-	-	1	-
Vegetable oils	1	1	1	1	1	1	\rightarrow	\rightarrow	1	-	-	-	-	1	\rightarrow	1	1	1	-	1	1	1	-
Vinegar	7	1	1	1	1	7	7	7	1	-	1	1	\rightarrow	\rightarrow	1	1	1	7	1	1	\rightarrow	1	7
Water	-	1	1	1	-	-	-	-	-	-	-	-	-	\rightarrow	1	1	\rightarrow	1	7	-	-	1	1
Water, acid mine	7	\rightarrow	1	1	↓	7	↓	7	1	-	1	-	↓	1	1	-	1	\rightarrow	-	1	1	1	1
Water, deionized	K	1	1	1	1	\rightarrow	K	1	↓	-	1	-	\rightarrow	1	1	\rightarrow	1	\rightarrow	-	-	\rightarrow	1	1
Water, distilled lab	7	\rightarrow	1	1	\rightarrow	1	R	\rightarrow	\rightarrow	1	1	1	7	7	1	-	1	1	1	1	\rightarrow	1	1
Water, drinking	-	1	1	1	1	-	-	\	1	-	-	-	-	\rightarrow	1	-	1	1	1	-	-	1	1
Water, fresh	1	1	1	1	\rightarrow	1	\rightarrow	1	1	-	1	1	\rightarrow	\rightarrow	1	-	1	1	1	1	1	1	1
Water, heavy	-	-	-	-	-	-	-	-	1	-	1	-	-	\rightarrow	1	1	1	1	\	1	1	1	1
Water, sea/river	7	\rightarrow	\rightarrow	1	\rightarrow	\rightarrow	R	R	\rightarrow	1	1	1	\rightarrow	\rightarrow	1	-	1	\rightarrow	1	1	1	1	1
Water glass	1	1	1	1	-	-	1	\rightarrow	1	-	1	-	→	1	1	-	1	1	K	1	1	1	1
Waterproofing salt	-	7	7	7	\rightarrow	1	↓	→	1	-	1	-	-	→	-	-	-	→	7	1	1	1	1
Xenon	7	1	1	1	1	-	R	1	1	1	1	-	-	1	1	1	1	1	1	1	-	1	-
Xylene	1	→	\rightarrow	→	1	1	\rightarrow	\rightarrow	\rightarrow	1	\rightarrow	1	1	1	1	1	1	1	\downarrow	\rightarrow	1	1	→
Zinc chloride	1	7	R	7	\	7	\	\	1	1	1	→	1	1	1	1	1	1	1	1	1	1	1
Please note that the chemical resist																ration							

Please note that the chemical resistance may be influenced by many factors, such as temperature, concentration, etc. This data is for reference only.

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CONVERSION TABLES

Length				
	meter	inch	foot	yard
1 m	1	39.37	3.2808	1.0936
1 in	0.0254	1	0.0833	0.0278
1 ft	0.3048	12	1	0.033
1 yd	0.9144	36	3	1

1 m = 10-3 km = 10 dm = 102 cm = 103 mm = 106 µm = 1012 nm

Area					
	cm ²	m²	sq. inch	sq. foot	sq. yard
1 cm ²	1	1 x 10 ⁻⁴	0.155	1.0764 x 10 ⁻³	1.196 x 10 ⁻⁴
1 m ²	1 x 10 ⁴	1	1550	10.764	1.196
1 sq in	6.4516	0.64516 x 10 ⁻³	1	0.00694	0.772 x 10 ⁻³
1 sq ft	929.0	0.0929	144	1	0.1111
1 sq yd	8360	0.8360	1296	9	1

 $1 \text{ m}^2 = 10^{-6} \text{ km}^2 = 10^{-4} \text{ ha} = 100 \text{ dm}^2 = 10^6 \text{ mm}^2$

Mass				
	Isila awawa		to	ns
	kilogram	pound	short (US)	long (Imp)
1 kg	1	2.205	1.102 x 10 ⁻³	0.9843 x 10 ⁻³
1 lb	0.4536	1	0.500 x 10 ⁻³	0.4464 x 10 ⁻³
1 short ton (US)	907.2	2000	1	0.8929
1 long ton (Imp)	1016	2240	1.12	1

1 kg = 10³ g = 10² dkg

Density							
	kg/ltr	kg/m ³	pound cubic	pound gallon			
			foot	Imperial	US		
1 kg/ltr	1	1000	62.43	10.022	8.345		
1 kg/m ³	0.001	1	0.06243	0.010022	0.008345		
1 lb/cu ft	0.01602	16.02	1	0.16054	0.1337		
1 lb/gal (Imp)	0.0998	99.78	6.229	1	0.8327		
1 lb/gal (US)	0.1198	119.8	7,481	1,201	1		

Volume						
	liter	m3	cubic	cubic	gal	lons
	(dm ³)	""	inch	foot	US	Imperial
11	1	1 x 10 ⁻³	61.024	0.03531	0.2642	0.220
1 m ³	1000	1	61024	35.31	264.2	220
1 cu in	16.387 x 10 ⁻³	16.387 x 10 ⁻⁶	1	0.5787 x 10 ⁻³	4.329 x 10 ⁻³	3.606 x 10 ⁻³
1 cu ft	28.320	28.320 x 10 ⁻³	1728	1	7.481	6.229
1 US gal	3.785	3.785 x 10 ⁻³	231	0.1337	1	0.8327
1 Imp gal	4.546	4.546 x 10 ⁻³	277.3	0.1605	1.210	1

Imperial = British

Specific Volume					
	ltr/kg	m³/kg	cubic foot pound		
1 ltr/kg	1	0.001	0.01602		
1 m ³ /kg	1000	1	16.02		
1 cu ft/lb	62.43	0.06243	1		

Force					
	Newton	kilopound	poundal		
1 N	1	0.1020	7.24		
1 kp	9.807	1	70.90		
1 pdl	0.1383	0.0141	1		

¹ N = 10⁵ dyn; 1 dyn = 1 g x 1 cm / S²; 1 kg = 1 kg x g 1 Poundal = 1 Pound x g

Pressure									
	1 bar = 10 ⁵ N	1 at = 1 Kp cm ²	poundal	poundal sq in	1 atm = 760 Torr = 760 mm		olumn n °C)	H ₂ O cole (4	umn (WC) °C)
	m ²	cm ²	sq ft	= Psi	Hg (0 °C)	mm Hg = Torr	in Hg	m H ₂ O	ft H ₂ O
1 Pa = 1 N/m ²	1 x 10 ⁻⁵	1.02 x 10 ⁻⁵	0.0209	1.45 x 10 ⁻⁴	9.87 x 10 ⁻⁶	0.0075	2.95 x 10-4	1.02 x 10 ⁻⁴	3.35 x 10 ⁻⁴
1 bar	1	1.0197	2089	14.504	0.9869	750	29.5	10.20	33.5
1 at	0.980665	1	2048	14.22	0.96784	735.56	29.0	10.00	32.8
1 pdl/sq ft	0.4790 x 10 ⁻³	0.4882 x 10 ⁻³	1	6.944 x 10 ⁻³	0.4725 x 10 ⁻³	0.359	0.141	4.88 x 10 ⁻³	0.0160
1 pdl/sq in = psi	0.06895	0.07031	144	1	0.06806	51.7	2.04	0.703	2.31
1 atm	1.013	1.033	2120	14.70	1	760	29.09	10.33	33.9
1 mm Hg	1.330 x 10 ⁻³	1.360 x 10 ⁻³	2.78	0.0193	1.316 x 10 ⁻³	1	0.0394	0.0136	0.0446
1 in Hg	0.0339	0.0345	70.7	0.4910	0.0334	25.4	1	0.3450	1.133
1 m H ₂ O	0.0981	0.1000	205	1.4220	0.0968	73.6	2.90	1	3.28
1 ft H ₂ O	0.0299	0.0305	62.4	0.4340	0.0295	22.4	0.883	0.3050	1

 $^{1 \}frac{N}{m^2} = Pa (Pascal) = 10 \frac{dyn}{cm^2}$

 $^{1 \}frac{kp}{m^2} = 10-4 \frac{kp}{cm^2} = 1 \text{ mm WC (at 4 °C)}$

			Btu			Horsepower hour (hph)		ton-day	1 Joule
	1 kcal	1 kp m	(British thermal unit)	ft poundal	1 kWh	metrical 75 <u>kp m</u> h s	imperial 550 ft. lb h	of refrigeration	= 1 Nm = Ws
1 kcal	1	427.0	3.968	3088	1.163 x 10 ⁻³	1.581 x 10 ⁻³	1.560 x 10 ⁻³	13.779 x 10-6	4190
1 kpm	2.342 x 10 ⁻³	1	9.294 x 10 ⁻³	7.233	2.723 x 10-6	3.704 x 10 ⁻⁶	3.653 x 10 ⁻⁶	32.270 x 10 ⁻⁶	9.807
1 Btu	0.252	107.59	1	778.0	0.293 x 10 ⁻³	0.398 x 10 ⁻³	0.3931 x 10 ⁻³	3.472 x 10 ⁻⁶	1055
1 ft pdl	0.3238 x 10 ³	0.13826	1.285 x 10 ⁻³	1	0.377 x 10 ⁻⁶	0.512 x 10 ⁻⁶	0.505 x 10 ⁻⁶	4.462 x 10 ⁻⁹	1.356
1 kWh	860	367.1 x 10-3	3412.8	2.655 x 106	1	1.360	1.341	11.850 x 10 ⁻³	2.6 x 10 ^e
1 PSh	632.3	270 x 10 ⁻³	2509	1.953 x 10 ⁶	0.7353	1	0.9863	8.713 x 10 ⁻³	2.65 x 10
1 hph	641.1	273.7 x 10 ⁻³	2545	1.980 x 10 ⁶	0.7457	1.014	1	8.834 x 10 ⁻³	2.68 x 10
1 ton-day	72.57 x 10 ⁻³	30.99 x 10 ⁻³	288 x 10 ³	244.1 x 10 ⁶	84.39	144.78	113.2	1	304 x 10
1 J	0.239 x 10 ⁻³	0.102	0.948 x 10 ⁻³	0.738	0.278 x 10 ⁻⁶	0.378 x 10 ⁻⁶	0.372 x 10 ⁻⁶	3.280 x 10 ⁻⁹	1

¹ erg = 1 dyn cm = 10^{-7} Nm; 1 kJ = 10^{3} J

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Capacity, E	Capacity, Energy Flow, and Heat Flow								
	1 kcal	1 kp m	British thermal	1 kcal/s = British theor.	1 kW =	Horsepower hour (HP)		US Standard commercial	British commercial
	h	s	unit per hour	unit of refrigeration	1 kJ/s	metrical 75 <u>kp m</u> s	imperial 550 ft lb s	ton of refrigeration	ton of refrigeration
1 kcal/h	1	0.1186	3.968	0.278 x 10 ⁻³	1.163 x 10 ⁻³	1.581 x 10 ⁻³	1.560 x 10 ⁻³	0.331 x 10 ⁻³	0.299 x 10 ⁻³
1 kp m/s	8.4312	1	33.455	2.342 x 10 ⁻³	9.804 x 10 ⁻³	13.333 x 10 ⁻³	13.150 x 10 ⁻³	2.792 x 10 ⁻³	2.520 x 10 ⁻³
1 Btu/h	0.252	29.89 x 10 ⁻³	1	0.07 x 10 ⁻³	0.293 x 10 ⁻³	0.398 x 10 ⁻³	0.393 x 10 ⁻³	0.083 x 10 ⁻³	75.310 x 10 ⁻³
1 kcal/s									
Brur	3600	427.0	14.285 x 10 ⁻³	1	4.186	5.693	5.615	1.190	1.078
1 kW	860.0	102.0	3414	0.2389	1	1.360	1.341	0.2846	0.2572
1 HP	632.3	75	2509.3	0.1756	0.736	1	0.9863	0.2094	0.1891
1 hp	641.2	76.04	2545	0.1781	0.7455	1.014	1	0.2123	0.21227
1 ton	3024	358.2	12.0 x 10 ³	0.831	3.513	4.776	4.711	1	0.9037
1 Br ton	3340	396.9	13.26 x 10 ³	0.9277	3.888	5.287	5.214	1.1045	1

Enthalpy Difference, Specific Heat					
Δh	kJ kg	kcal kg	Btu pound		
1 kJ/kg	1	0.239	0.43		
1 kcal/kg	4.19	1	1.80		
1 Btu/lb	2.33	0.556	1		

Entropy Difference, Specific Heat					
Δs	k <u>J</u> kg K	kcal kg °C	Btu_ pound °F		
1 kJ/kg K	1	0.239	0.239		
1 kcal/kg °C	4.19	1	1		
1 Btu/lb °F	4.19	1	1		

Formulas for temperature calculation

Temperatures

Common temperatures in degrees Kelvin and corresponding Celsius and Fahrenheit equivalents

Kelvin (K)	Celsius (°C)	Fahrenheit (°F)
0	-273	-459
17	-256	-429
33	-240	-400
49	-224	-371
65	-208	-342
81	-192	-314
97	-176	-285
113	-160	-256
129	-144	-227
145	-128	-198
161	-112	-170
177	-96	-141
193	-80	-112
209	-64	-83
225	-48	-54
241	-32	-26
257	-16	-3

Kelvin (K)	Celsius (°C)	Fahrenheit (°F)
273	0	32
289	16	61
305	32	90
321	48	118
337	64	147
353	80	176
373	100	212
385	112	234
401	128	262
417	144	291
433	160	320
449	176	349
465	192	378
481	208	406
497	224	435
513	240	464
529	256	493

(Orifice) Sizes Common valve orifice sizes and equivalents in mm

	inches	mm
3/64	(0.0469)	1.19
1/16	(0.0625)	1.59
5/64	(0.0781)	1.98
3/32	(0.0937)	2.38
1/8	(0.1250)	3.18
5/32	(0.1562)	3.97
11/64	(0.1719)	4.37
3/16	(0.1875)	4.76
7/32	(0.2187)	5.55
1/4	(0.2500)	6.35
9/32	(0.2812)	7.14
5/16	(0.3125)	7.94

inches		mm
7/17	(0.4375)	11.11
1/2	(0.5000)	12.70
5/8	(0.6250)	15.88
11/16	(0.6875)	17.46
3/4	(0.7500)	19.05
1	(1.000)	25.40
1 1/8	(1.250)	28.58
1 1/4	(1.2500)	31.75
1 1/2	(1.5000)	38.10
1 3/4	(1.7500)	44.45
2	(2.0000)	50.80
3	(3.0000)	76.20



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