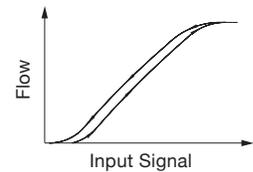
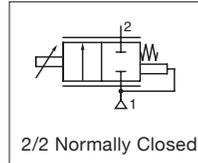


- Preciflow solenoid valves are designed to proportionally control the flow of air and inert gases by varying the electrical input signal to the coil
- Low hysteresis (< 5%), excellent repeatability (< 1%), and high sensitivity (< 1%) make these valves ideal for high precision flow control
- Compact 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
  - Blood Pressure Monitoring
  - Gas Chromatography
  - Anesthesia Delivery



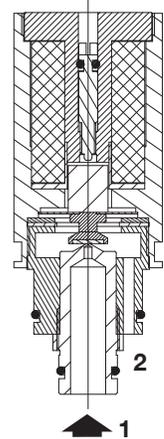
Fluids*	Temperature Range	Seal Materials*
Air or Inert Gases <sup>1</sup>	10 °C to 50 °C (50 °F to 122 °F)	FKM

\* Ensure that the compatibility of the fluids in contact with the materials is verified  
<sup>1</sup> Filtration: 5µm

General Valve Information	
Body	Stainless Steel
Seals	FKM (EDPM or FFKM on request)
Others	POM, Brass, Stainless Steel, PPS
Max. Viscosity	50 cSt (mm <sup>2</sup> /s)

Electrical Characteristics	
Coil Insulation Class	F
Connector	Lead Wires (PTFE); 0.23m (9in) length (24 AWG)
Electrical Safety	IEC 335
Electrical Enclosure Protection	IP50 (EN 60529)
Standard Voltages <sup>2</sup>	6 VDC, 12 VDC, 24 VDC
Voltage Regulation	0-6 VDC, 0-12 VDC, 0-24 VDC; Pulse-width Modulation (min. 2000Hz)
Flow Regulation Characteristics	Hysteresis < 5%; Repeatability < 1%; Sensitivity < 1%

<sup>2</sup> Other voltages on request



Voltage	Max. Operating Current	Power Ratings			Ambient Temperature Ranges	Type <sup>3</sup>
		Inrush	Holding	Hot/Cold		
V	mA	VA	VA	W	°C (°F)	
6	max. 90	-	-	0.5	0 to 50 (32 to 122)	01
	max. 420			2.5		
12	max. 45			0.5		
	max. 210			2.5		
24	max. 25			0.5		
	max. 110			2.5		

<sup>3</sup> Refer to the dimensional drawings on the following page

Specifications							
Connection	Orifice Size	Flow Coefficient		Operating Pressure bar (psi)		Power Coil	
		Kv (m3/h)	Cv	min.	max.		
	mm (inches)			air, inert gas	W	Catalog Number	
Cartridge	0.1 (0.004)	0.0003	0.00035	-0.9 (-13)	10 (145)	0.5	LS202A517
	0.2 (0.008)	0.0012	0.0014				LS202A518
	0.5 (0.020)	0.0072	0.0083			2.5	LS202A519
	0.8 (0.031)	0.015	0.017				LS202A520
	1.2 (0.047)	0.021	0.024				LS202A521
	1.6 (0.063)	0.028	0.032				LS202A523

## How to Order

Catalog Number LS202A517 XXXX Voltage  
 06DC  
 12DC  
 24DC

## Dimensions: mm (inches)

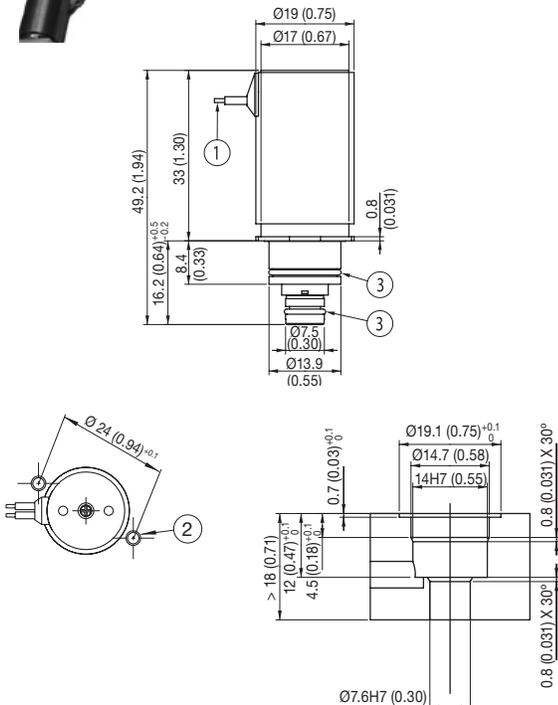
### Dimensional Drawings

#### Type 01

Prefix "L" solenoid, lead wires  
 IP40



#### Preciflow 19mm Cartridge



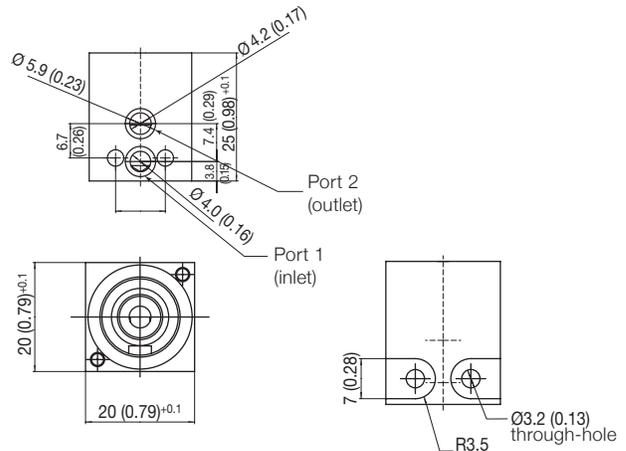
- ① 2 electrical supply wires, length: 0.23m (9in)
- ② Mounting: 2 screws M3 x 6mm (0.24in) + washers
- ③ O-ring

### Options

- Digital control module Control<sup>D</sup> for DIN EN 50022 rail mounting (catalog numbers: 60300117 - 60300118)  
 Features:
  - Control device for PWM (pulse-width modulated) proportional valve control
  - Designed for open-loop, closed-loop and double-loop (cascaded) control
  - Suitable for the control of flow, pressure, temperature, force, etc.
  - Integrated display and LEDs
  - Control parameters adjustable via software (DigiCom, USB interface)
  - Auto-Adapt function for automatic adjustment of the Control<sup>D</sup> control device to the control valve
  - Control<sup>D</sup> software "ASCO-DigiCom" for adjustment over PC. Setpoint and feedback values are viewed at the same time
    - Valve diagnostics, parameter setting and maintenance
- Other pipe connections are available on request
- Other seal materials are available on request

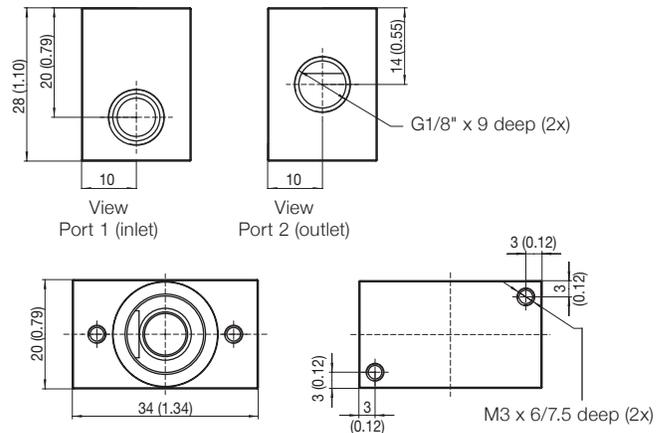
#### Pad Mount Subbase 833-943762

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



#### Inline Subbase 833-943675

Brass



Catalog Number	Weight kg
LS202A517/518/519/520/521/522	0.063 <sup>1</sup>
833-943675	0.120
833-943762	0.010

<sup>1</sup> Including leads, length 0.23m (9in)

### Installation

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