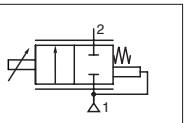
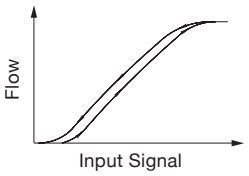
PRECIFLOW IPC PROPORTIONAL VALVES

- Preciflow IPC (Inlet Pressure Compensated) 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 2.5 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



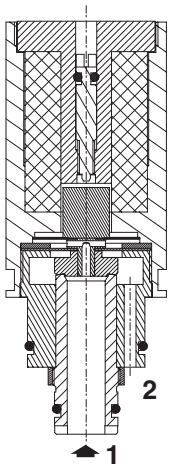
2/2 Normally Closed



Fluids*	Temperature Range	Seal Materials*
Air or Inert Gases[1]	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

[1] Filtration: 5µm



General Valve Information	
Body	Brass or Stainless Steel, or POM (for pad mount)
Seals	FKM, NBR
Others	Stainless Steel, FKM
Max. Viscosity	50 cSt (mm²/s)

Electrical Characteristics	
Coil Insulation Class	F
Connector	Lead Wires (PTFE); 0.23m (9in) length (24 AWG)
Electrical Safety	IEC 335
Electrical Enclosure Protection	IP40 (EN 60529)
Standard Voltages[2]	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%

[2] Other voltages on request

Voltage	Max. Operating Current	Power Ratings				Ambient Temperature Ranges	Type[3]
		Inrush	Holding		Hot/Cold		
V	mA	VA	VA	W	W	°C (°F)	
6	420	-	-	-	2.5	10 to 50 (50 to 122)	01
12	210						
24	110						

[3] Refer to the dimensional drawings on the following page

Specifications									
Connection	Orifice Size	Flow Coefficient		Operating Pressure bar (psi)		Power Coil	Catalog Number		
				min.	max.				
	mm (inches)	Kv (m3/h)	Cv		air, inert gas	W	brass	stainless steel	POM
G1/8	3 (0.12)	0.17	0.20	0	7 (102)	2.5	LG202A514	-	-
Cartridge	3 (0.12)	0.17	0.20	0	7 (102)	2.5	-	LS202A515	-
Pad Mounting	3 (0.12)	0.17	0.20	0	7 (102)	2.5	-	-	LS202A516

How to Order

L S 202A514 xxxx

Prefix

Mounting
G = Line Mount
S = Pad Mount

Catalog Number
202A514
202A515

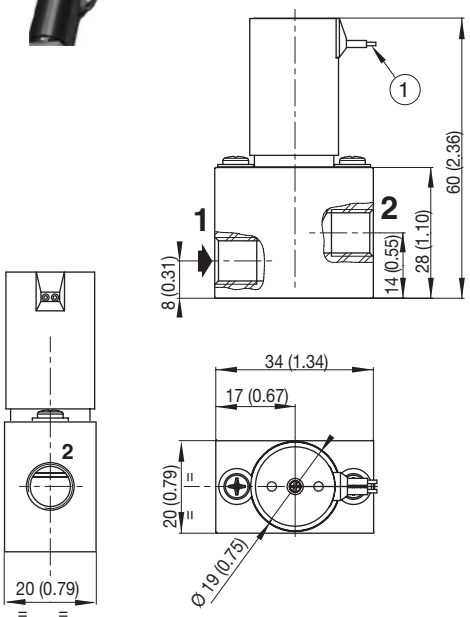
Voltage
06DC
12DC
24DC

Dimensions: mm (inches)

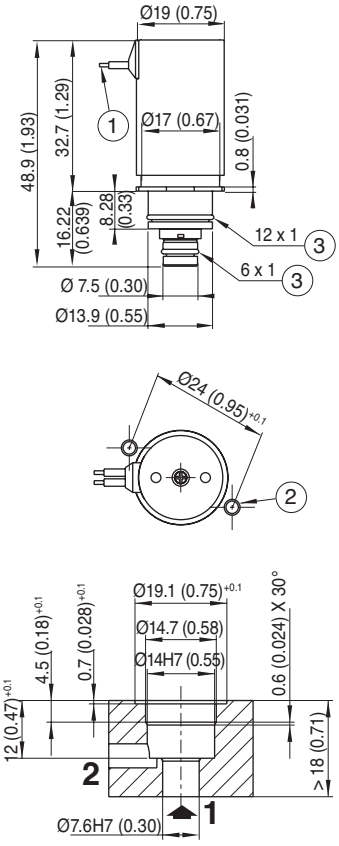
Dimensional Drawings

Type 01 Prefix "L" solenoid, lead wires
IP40

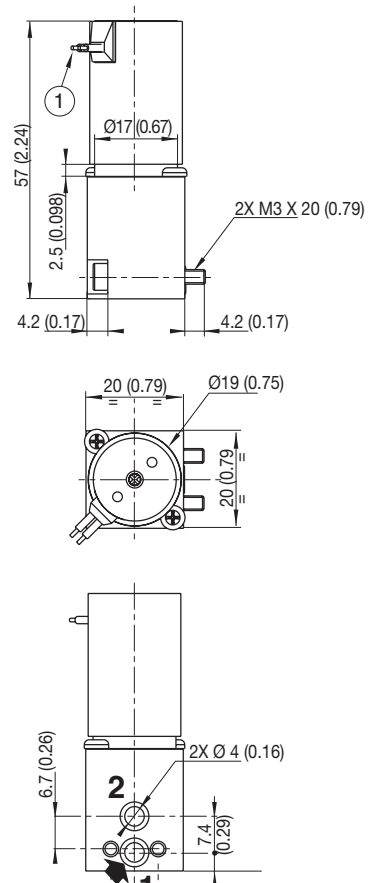
LG202A514



LS202A515



LS202A516



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

Mounting Geometry

Mounting Pad

Options

- Digital control module Control^{D} 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/button for automatic adjustment of the Control^{D} control device to the control valve
  - Control^{D} 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

Type	Prefix Option	Catalog Number	Weight[1] kg
01	L	LG202A514	0.183
		LS202A515	0.063
		LS202A516	0.073

[1] 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)