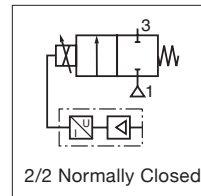


PRECIFLOW PROPORTIONAL VALVES



- 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 (< 3%), 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, Inert Gas ¹	0 °C to 50 °C (32 °F to 122 °F)	FKM

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

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

General Valve Information	
Body	Brass or PVDF
Seals	FKM
Others	Brass, Stainless Steel

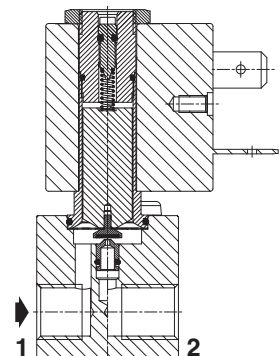
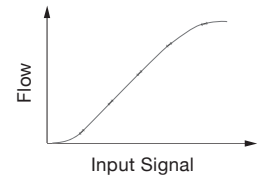
Electrical Characteristics	
Coil Insulation Class	F
Connector	Spade plug; cable Ø4-6mm (0.157 - 0.236in), Ø6-8mm (0.236 - 0.315in), Ø6-10mm (0.236 - 0.394in)
Connector Specification	DIN 43650, 9.4mm (0.370in), industry standard B (type 01) DIN 43650, 11mm (0.433in), industry standard B (type 02) ISO 4400/EN 175301-803, form A (type 03)
Electrical Safety	IEC 335
Electrical Enclosure Protection	Molded IP65 (EN 60529)
Standard Voltages ²	12 VDC, 24 VDC
Voltage Regulation	0-12 VDC, 0-24 VDC; Pulse-width Modulation (1000Hz)
Flow Regulation Characteristics	Hysteresis < 3%; Repeatability < 1%; Sensitivity < 1%

² Other voltages on request

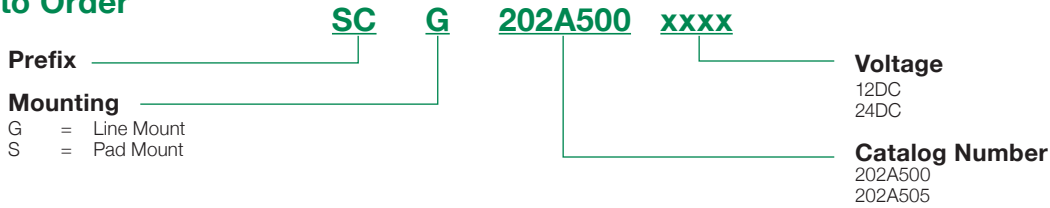
Voltage	Max. Operating Current	Power Ratings			Ambient Temperature Ranges	Replacement Coil	Type ³
		Inrush	Holding	Hot/Cold			
V	mA	VA	VA	W	°C (°F)		
12	85	-	-	-	0 to 50 (32 to 122)	-	01
	340					1	
	400					4	
	760					5	
24	40	-	-	-	0 to 50 (32 to 122)	-	01
	170					1	
	230					4	
	380					5	
						-	03
						43004151	02
						-	03
						43004158	02
						-	03

³ Refer to the dimensional drawings on the following page

Specifications									
Connection	Orifice Size	Flow Coefficient		Pressure Differential bar (psi)		Power Coil	Catalog Number		
				min.	max.		Threaded Body		ISO 15218 (CNOMO, size 15) Interface
							air, inert gas	W	
M5 or Pad Mount	0.1 (0.0040)	0.0003	0.00035	-0.9 (-13)	10 (145)	1	SCG202A500	-	SCS202A505
	0.2 (0.0079)	0.0012	0.0014			1	-	SCG202A501	SCS202A506
	0.4 (0.0157)	0.0048	0.0055			4	-	SCG202A502	SCS202A507
	0.6 (0.0236)	0.0096	0.0111			4	-	SCG202A503	SCS202A508
	0.8 (0.0315)	0.018	0.021			4	-	SCG202A504	SCS202A509
G1/8	0.8 (0.0315)	0.018	0.021	-0.9 (-13)	10 (145)	5	SCG202A510	-	-
	1.2 (0.0472)	0.041	0.047			5	SCG202A511	-	-
	1.6 (0.0630)	0.071	0.082			5	SCG202A512	-	-
	2.0 (0.0787)	0.096	0.111			9	SCG202A513	-	-



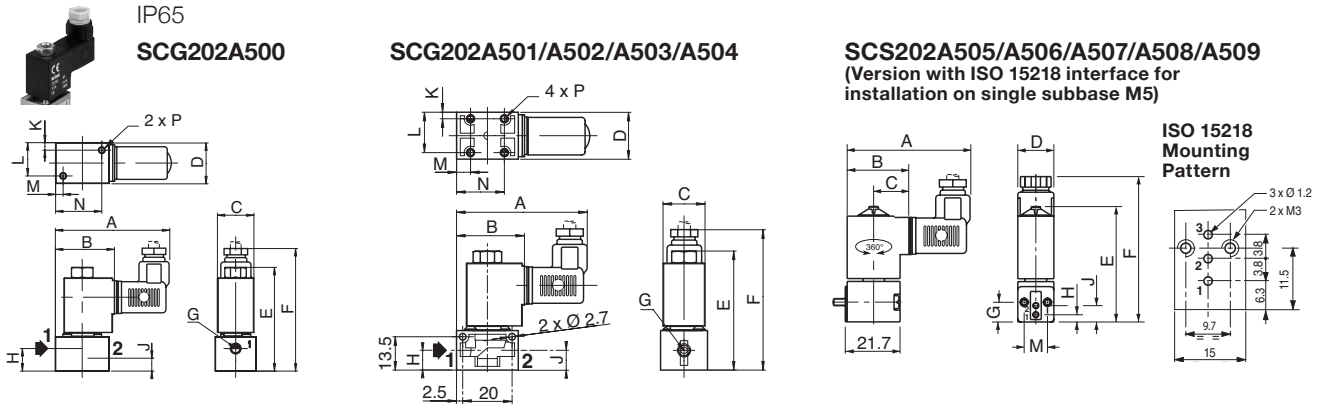
How to Order



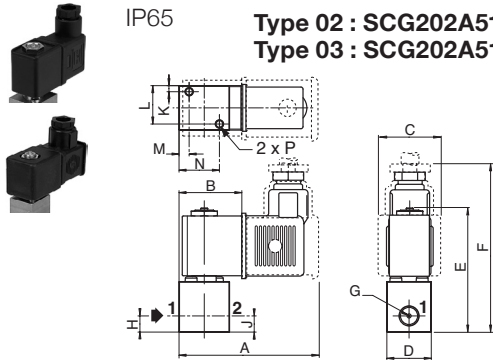
Dimensions: mm (inches)

Dimensional Drawings

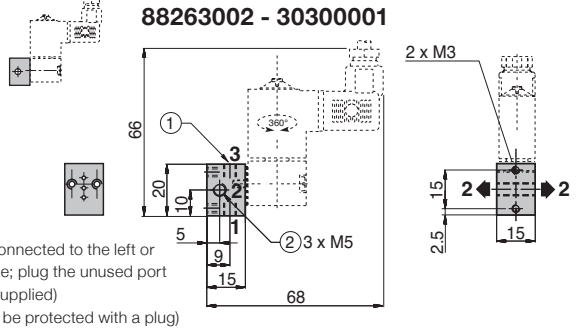
Type 01 Prefix "SC" solenoid, epoxy molded
 IEC 335/DIN 43650, 9.4mm (0.37in)
 IP65



Type 02-03 Prefix "SC" solenoid, epoxy molded
 IEC 335/DIN 43650 or ISO 4400
 IP65
Type 02 : SCG202A510/A511/A512
Type 03 : SCG202A513



Single Subbase M5 Aluminum or brass



Type	Prefix Option	Catalog Number	A	B	C	D	E	F	G	H	J	K	L	M	N	P
01	SC	SCG202A500	53.9 (2.12)	27.5 (1.08)	17 (0.67)	19 (0.75)	48.2 (1.90)	59.5 (2.34)	M5	10.5 (0.41)	6 (0.24)	3.5 (0.14)	15.5 (0.61)	3.5 (0.14)	21.5 (0.85)	M3
		SCG202A501/A502/A503/A504	53.9 (2.12)	27.5 (1.08)	17 (0.67)	19 (0.75)	48.2 (1.90)	59.5 (2.34)	M5	8 (0.31)	8 (0.31)	2.65 (0.10)	16.35 (0.64)	5.65 (0.22)	19.35 (0.76)	2.6 (0.10)
		SCS202A505/A506/A507/A508/A509	53 (2.09)	25.6 (1.01)	14.8 (0.58)	17 (0.67)	48 (1.89)	59.5 (2.34)	8.7 (0.34)	3.5 (0.14)	7.3 (0.29)	-	-	9.7 (0.38)	-	-
02	SC	SCG202A510/A511/A512	63.3 (2.50)	31.1 (1.22)	23 (0.91)	22 (0.87)	60.4 (2.38)	75.4 (2.97)	G1/8	8 (0.31)	8 (0.31)	3 (0.12)	19 (0.75)	5 (0.20)	20 (0.79)	M4
03	SC	SCG202A513	73.3 (2.89)	38 (1.50)	30 (1.18)	22 (0.87)	60.4 (2.38)	79 (3.11)	G1/8	8 (0.31)	8 (0.31)	3 (0.12)	19 (0.75)	5 (0.20)	20 (0.79)	M4

¹ Including coil and connector

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
- 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)