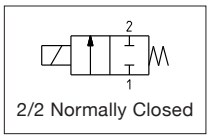
BELLOWS SEAL
FLUID ISOLATION VALVES



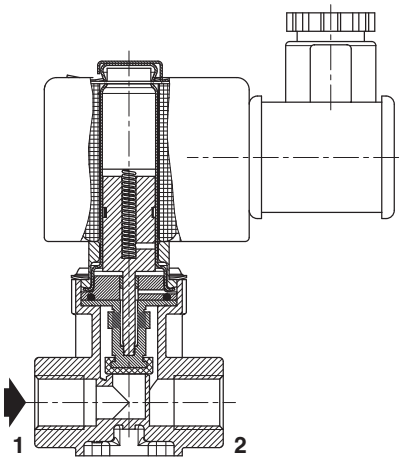
2/2 Normally Closed

- Bellows system 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 2-Way normally closed and normally open 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, Water, Oil or Liquids	-10 °C to 90 °C (14 °F to 194 °F)[1]	FFKM (perfluoroelastomer)

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

[1] Total ambient + fluid temperature must not exceed 130 °C (266 °F)



General Valve Information	
Body	PEEK or Stainless Steel, AISI 303 (1.4305)
Others	Stainless Steel
Seals	FFKM
Bellows	PTFE
Max. Viscosity	40 cSt (mm^2/s)

Electrical Characteristics		
Coil Insulation Class		F
Connector		Spade plug
Connector Specification	For Coil Type 01	DIN 43650, 11mm (0.43in), industry standard B
	For Coil Type 02	ISO 4400/EN 175301-803, form A
Electrical Safety		IEC 335
Electrical Enclosure Protection		Molded IP65 (EN 60529)
Standard Voltages		24 VDC, AV ~: 24V to 115V to 230V/50 Hz

Prefix Option	Power Ratings				Ambient Temperature Range	Replacement Coil		Type[1]
	Inrush	Holding		Hot/Cold				
	VA	VA	W	W	°C (°F)	230 V/50 Hz	24 VDC	
SC	-	-	-	5/6.9	-10 to 60 (14 to 140)	43004649	43004647	01
	55	23	10.5	9/11.2		400425-117	400425-142	02
	57	35	16.7	14/19.7		400425-217	400425-342	02

[1] Refer to the dimensional drawings on the following page.

Specifications

Connection	Orifice Size	Flow Coefficient		Pressure Differential bar (psi)			Power Coil		Catalog Number		Options
				min.	max.						
G	mm (inches)	Kv (m3/h)	Cv		inert gases	liquids	W		PEEK	Stainless Steel	FKM
2/2 NC - Normally Closed											
1/4	2 (0.079)	0.11	0.13	0	3 (43.5)	3 (43.5)	-	6.9	SCG296A007	SCG296A021	V
					6 (87)	6 (87)	10.5	11.2	SCG296A008	SCG296A022	V
	4 (1.57)	0.32	0.37	0	5 (72.5)	5 (72.5)	10.5	11.2	SCG296A009	SCG296A023	V
					6 (87)	6 (87)	16.7	19.7	SCG296A010	SCG296A024	V
3/8	6 (0.236)	0.73	0.84	0	2 (29)	2 (29)	10.5	11.2	SCG296A011	SCG296A025	V
					4 (58)	4 (58)	16.7	19.7	SCG296A012	SCG296A026	V

How to Order

SC G 296A007 V xxxx

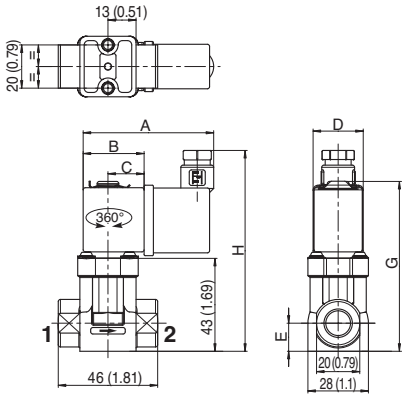
- **Prefix**
- **Pipe Thread**
- **Catalog Number**
- **Suffix**
- **Voltage** 24DC

Dimensions: mm (inches)

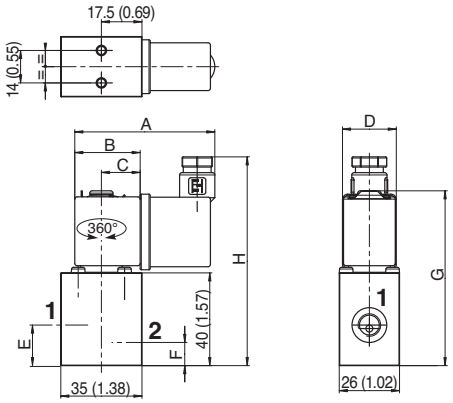
Dimensional Drawings

Type 01 Prefix "SC" solenoid ISO 4400

PEEK: SCG296A007

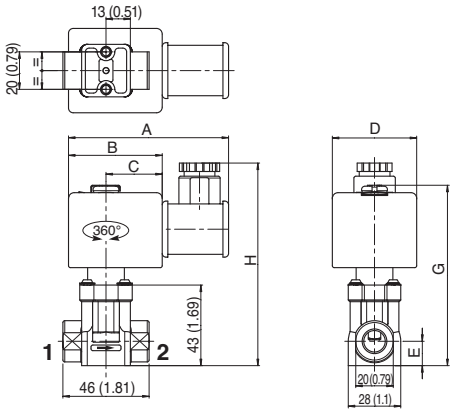


Stainless steel: SCG296A021

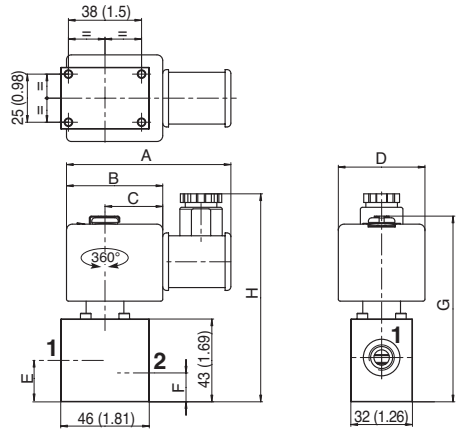


Type 02 Prefix "SC" solenoid ISO 4400

PEEK: SCG296A008/A009/A010/A011/A012



Stainless steel: SCG296A022/A023/A024/A025/A026



Type	Prefix Option	Catalog Number	A	B	C	D	E	F	G	H	Weight[1] kg
01	SC	SCG296A007	60 (2.36)	28 (1.1)	17 (0.67)	22 (0.87)	13 (0.51)	-	79 (3.1)	94 (3.7)	0.145
		SCG296A021	60 (2.36)	28 (1.1)	17 (0.67)	22 (0.87)	17.5 (0.69)	10 (0.39)	76 (3.0)	91 (3.58)	0.310
02	SC	SCG296A008/A009/A010/A011/A012	85 (3.3)	50 (1.97)	30 (1.18)	45 (1.77)	13 (0.51)	-	100 (3.94)	110 (4.33)	0.420
		SCG296A022/A023/A024/A025/A026	85 (3.3)	50 (1.97)	30 (1.18)	45 (1.77)	21.5 (0.85)	15 (0.59)	100 (3.94)	110 (4.33)	0.650

[1] Including coil(s) and connector(s)

Options

- Valves can also be supplied with FKM (fluoroelastomer) seals and diaphragm. Use the appropriate optional suffix letter for identification
- NPT thread
- 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
- Solenoid valves have 2 or 4 mounting holes in body
- Pipe connection identifier is G = G (ISO 228/1)