

ASCO™ Solenoid Valves

For Vacuum Service

Pilot Operated, hung diaphragm, 3/8" to 3/4" Tapped

2/2
Series
210

Features and Benefits

- Special materials and handling procedures are used in the high vacuum valves to avoid molecular contamination
- The medium and high vacuum valves are mass spectrometer tested
- Two way shut-off pilot operated valves for air and inert gas compatible with the seal materials used
- The solenoid valves satisfy all relevant EU Directives

General

Differential pressure 1 bar absolute [1 bar = 100 kPa]
Response time 15 - 120 ms

Fluids (*)	Temperature range (TS)	Seal materials (*)
air, inert gas	-20°C to +85°C	NBR (nitrile)
	0°C to + 90°C	FPM (fluoroelastomer)

Materials in contact with fluid

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

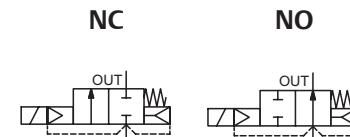
Body	Brass
Core tube	Stainless steel
Core and plugnut	Stainless steel
Springs	Stainless steel
Seat	Brass
Seals, diaphragm and disc	NBR or FPM
Disc holder (NO function)	PA
Shading coil	Copper

Electrical characteristics

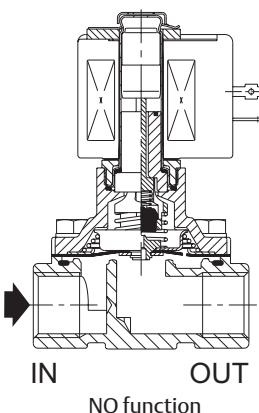
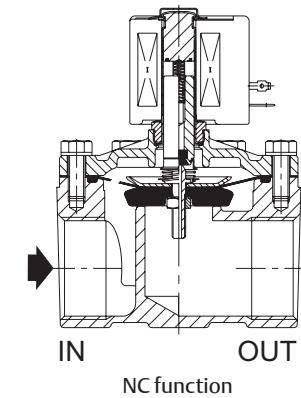
Coil insulation class	F
Connector	Spade plug (cable Ø 6-10 mm)
Connector specification	ISO 4400 / EN 175301-803, form A
Electrical safety	IEC 335
Electrical enclosure protection	Moulded IP65 (EN 60529)
Standard voltages	DC (=) : -
(Other voltages and 60 Hz on request)	AC (~) : 24V - 48V - 115V - 230V / 50 Hz

Prefix option	Power ratings			Operator ambient temperature range (TS)	Replacement coil	Type ⁽¹⁾	
	Inrush	Holding	Hot/cold				
	~	~	=				
SC	55	23	10.5	(W)	(C°)	230 V/50 Hz	
	(VA)	(VA)	(W)			-	
	SC	55	23	-	-20 to +75	400425-117	01

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



CE



Specifications

Pipe size	Orifice size	Flow coefficient K _v		Minimum absolute vacuum pressure (PS)	Power coil (W)	Catalog number	Options
							Maintained manual operator
R _p	(mm)	(m ³ /h)	(l/min)	mbar (Torr)	~	~	
NC - Normally closed. low vacuum range to 25 Torr. NBR seals							
3/4"	19	4.3	72	33.3 (25)	10.5	SCE210D095	MO
NC - Normally closed. medium vacuum range to 10⁻³ Torr. NBR seals							
3/4"	19	4.3	72	1.33.10 ⁻³ (10 ⁻³)	10.5	SCE210D095VM	MO
NC - Normally closed. high vacuum range to 10⁻⁶ Torr. FPM seals							
3/4"	19	4.3	72	1.33.10 ⁻⁶ (10 ⁻⁶)	10.5	SCE210D095VH	MO
NO - Normally open. low vacuum range to 25 Torr. NBR seals							
3/8"	16	2.6	43	33.3 (25)	10.5	SCE210C033	MO
1/2"	16	3.4	57	33.3 (25)	10.5	SCE210C034	MO
3/4"	19	4.7	79	33.3 (25)	10.5	SCE210C035	MO
NO - Normally open. medium vacuum range to 10⁻³ Torr. NBR seals							
3/8"	16	2.6	43	1.33.10 ⁻³ (10 ⁻³)	10.5	SCE210C033VM	MO
1/2"	16	3.4	57	1.33.10 ⁻³ (10 ⁻³)	10.5	SCE210C034VM	MO
3/4"	19	4.7	79	1.33.10 ⁻³ (10 ⁻³)	10.5	SCE210C035VM	MO
NO - Normally open. high vacuum range to 10⁻⁶ Torr. FPM seals							
3/8"	16	2.6	43	1.33.10 ⁻⁶ (10 ⁻⁶)	10.5	SCE210C033VH	MO
1/2"	16	3.4	57	1.33.10 ⁻⁶ (10 ⁻⁶)	10.5	SCE210C034VH	MO
3/4"	19	4.7	79	1.33.10 ⁻⁶ (10 ⁻⁶)	10.5	SCE210C035VH	MO

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

Options

- Waterproof enclosure with embedded screw terminal coil according to protection class IP67, CEE-10
- Explosionproof enclosures for use in zones 1/21-2/22, categories 2-3 to ATEX Directive 2014/34/EU
- Electrical enclosures according to "NEMA" standards are available
- Compliance with "UL", "CSA" and other local approvals available on request
- Mounting brackets, suffix MB
- Other pipe connections are available on request
- Connector with visual indication and peak voltage suppression or with cable length of 2 m

Installation

- The solenoid valves can be mounted in any position without affecting operation
- Pipe connection identifier is $E = Rp$ (ISO 7/1)
- Installation/maintenance instructions are included with each valve

Spare parts kit and accessories

Catalogue number	Spare parts kits no.	Mounting bracket no.
	~	
SCE210D095	C302276	038713-000
SCE210C033/C034	C302334	038713-000
SCE210C035	C302335	038713-000

⁽¹⁾ Standard suffixes are also applicable to kits.

Ordering Examples Values:

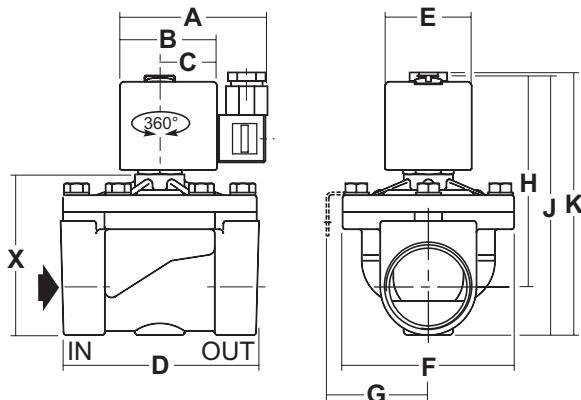
Ordering Examples Kits:

C302276⁽¹⁾
C302276 VM
C302276 VH
basic number _____ suffix _____

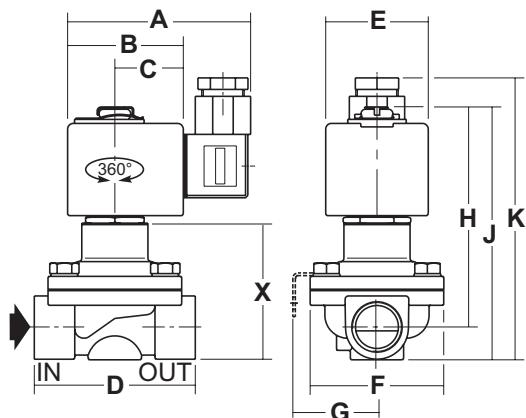
ASCO™ Solenoid Valves**Dimensions (mm), Weight (kg)** 

TYPE 01
Prefix "SC" Solenoid
Epoxy moulded
IEC 335 / ISO 4400
IP65

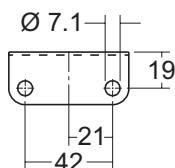
SCE210D095 (NC)



SCE210C033/C034/C035 (NO)



Mounting brackets



Type	Prefix option	Catalog number	A	B	C	D	E	F	G	H	J	K	X	Weight ⁽¹⁾
01	SC	SCE210D095	80	50	30	73	45	58	41	89	103	121	54	1
		SCE210C033/C034	80	50	30	70	45	58	41	98	108	127	60	0.9
		SCE210C035	80	50	30	70	45	58	41	102	117	132	68	1

⁽¹⁾ including coil and connector.