

ASCO™ Solenoid Valves

Pilot Operated, Floating Diaphragm/Piston, 3/8 to 2

- Two way shut-off valves for automatic control of air, inert gas, water, oil and other gases/liquids compatible with the seal materials used
- Valves require a minimum ΔP of 0,35 bar
- All products are covered by Pressure Equipment Directive 2014/68/EU and are suitable for group 1 and 2 fluids
- The solenoid valves satisfy all relevant EU Directives

General

Differential pressure See «SPECIFICATIONS» [1 bar = 100 kPa]
Maximum viscosity 65 cSt (mm²/s)
Response time 15 - 60 ms (3/8 to 3/4); 40 - 120 ms (1 to 2)

fluids (*)	temperature range (TS)	seal materials (*)
air, inert gas, water, oil	-20°C to +85°C	NBR (nitrile)

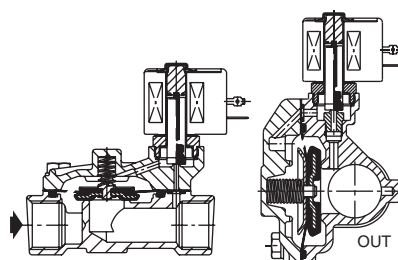
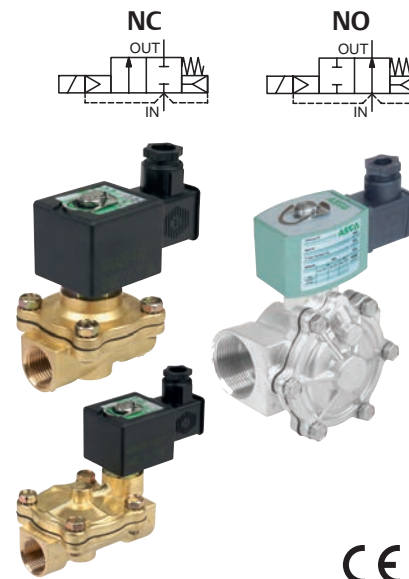
Materials in contact with fluid

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

Body Brass / 316L Stainless steel
Shading coil Copper / Silver
Core tube Stainless steel
Core and plugnut Stainless steel
Springs Stainless steel
Seat Brass / 316L Stainless steel
Seal, diaphragm & disc NBR
Piston Brass / st. steel
Piston disc NBR
Disc holder (NO function) PA

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 (=) : 24V - 48V
 AC (-) : 24V - 48V - 115V - 230V/50 Hz
 (Other voltages and 60 Hz on request)



prefix option	power ratings				operator ambient temperature range (TS) (°C)	replacement coil		type ⁽¹⁾
	inrush ~ (VA)	holding ~ (VA) (W)		hot/cold = (W)		~ 230 V/50 Hz	= 24 V DC	
		~ (VA)	~ (W)					
SC	34	15,6	6	-	-20 to +75	400325-117	-	01
	-	-	-	9/ 11,2	-20 to +75	-	400425-142	02
	78	35	16,7	-	-20 to +50	400425-217	-	02
	110	33,6	15,4	12/16,8	-20 to +75	400525-117	400625-142	03
	30	16	8,1	-	-25 to +55	238213-059	-	04
-	-	-	8,5/ 11,6	-25 to +55	-	238913-006	-	05

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

Specifications

pipe size	orifice size (mm)	flow coefficient Kv (m ³ /h) (l/min)	operating pressure differential (bar)								power coil (W)		Catalog number		options			
			min.	max. (PS)						~	=	brass	stainless steel	maintained man. operator	FPM	EPDM	CR	
				air (*)	water (*)	oil (*)	~	=	~									=
NC - Normally closed																		
3/8	16	2,6 43	0,35	14	9	10	7	10	7	6	11,2	SCE210D001	-	MO	V	E	J	
				20	-	20	-	20	-	16,7	-	SCE210C006	-	MO	V	E	J	
1/2	16	3,4 57	0,35	14	9	10	7	10	7	6	11,2	SCE210D002	-	MO	V	E	J	
				20	-	20	-	20	-	16,7	-	SCE210C007	-	MO	V	E	J	
3/4	19	4,3 72	0,35	9	7	9	6	9	5	6	11,2	SCE210D009	-	MO	V	E	J	
		5,6 93	0,35	17	9	10	9	10	9	6	11,2	SCE210D003	-	MO	V	E	J	
1	25	11,1 185	0,35	9	9	9	9	9	9	6	11,2	SCE210D004	-	MO	V	E	J	
		28 213	0,35	9	9	9	9	9	9	6	11,2	SCE210D008	-	MO	V	E	J	
1 1/4	32	19,3 322	0,35	9	9	9	9	9	9	8,1	11,6	-	SCE210G125	MO	V	E	J	
		32 322	0,35	9	9	9	9	9	9	6	11,2	SCE210D022	-	MO	V	E	J	
1 1/2	32	19,3 322	0,35	9	9	9	9	9	9	6	11,2	SCE210-100 ⁽²⁾	-	MO	V	E	J	
										8,1	11,6	-	SCE210G127	MO	V	E	J	
2	44	37 617	0,35	9	3	9	3	6	3	6	11,2	SCE210-100 ⁽²⁾	-	MO	V	E	J	
										8,1	11,6	-	SCE210G129 ⁽²⁾	MO	V	E	J	

⁽²⁾ Floating piston construction.

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Specifications

pipe size	orifice size	flow coefficient Kv		operating pressure differential (bar)								power coil (W)		Catalog number		options			
				min.	max. (PS)						brass					stainless steel	maintained man. operator	FPM	EPDM
					air (*)	water (*)	oil (*)	air (*)	water (*)	oil (*)									
Rp	(mm)	(m³/h)	(l/min)		~	=	~	=	~	=	~	=							
NO - Normally open																			
3/4	19	5,7	95	0,35	17	17	14	14	14	14	15,4	16,8	SCE210C013	-	MO	V	E	J	
1	25	11,1	185	0,35	9	9	9	9	9	9	15,4	16,8	SCE210D014	-	MO	V	E	J	
1 1/4	28	12,8	213	0,35	9	9	9	9	9	9	15,4	16,8	SCE210D018	-	MO	V	E	J	
	32	19,3	322								15,4	16,8	-	SCE210A131	MO	V	E	J	
1 1/2	32	19,3	322	0,35	9	9	9	9	9	9	15,4	16,8	SCE210D032	SCE210A132	-	V	E	J	
2	44	37	617	0,35	9	9	9	9	9	9	15,4	16,8	SCE210-103 ⁽¹⁾	SCE210A133 ⁽¹⁾	-	V	E	J	

⁽¹⁾ Floating piston construction.

Options

- Valves can also be supplied with FPM (fluoroelastomer), EPDM (ethylene-propylene), CR (chloroprene) and PTFE seals and discs. Use the appropriate optional suffix letter for identification.
- 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 ⁽²⁾
- Electrical enclosures according to "NEMA" standards are available
- Compliance with "UL", "CSA" and other local approvals available on request
- For protection against corrosion caused by the environment or the fluid, contact us
- Mounting brackets (3/8 to 3/4 solenoid valves)
- Other pipe connections are available on request
- Connector with visual indication and peak voltage suppression or with cable length of 2 m

⁽²⁾ Please consult the quick selection guide on potentially explosive atmospheres on Emerson.com/asco

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 & Accessories

Catalog number	spare parts kit no.		mounting bracket
	~	=	
SCE210G125/G127	C325338	C325365	-
SCE210G129/A131	C325366	C325367	-
SCE210A132	C325368	C325368	-
SCE210A133	C325369	C325369	-
SCE210D001/D002	C302273	C302373	038713-000
SCE210D009	C302277	C302376	038713-000
SCE210C006/C007	C302274	-	038713-000
SCE210D003	C302279	C302378	038914
SCE210D004/D008	C302280	C302379	-
SCE210D022	C302284	C302383	-
SCE210C013	C302336	C302451	038914
SCE210D014/D018	C302338	C302452	-
SCE210D032	C302341	C302453	-
SCE210-100	C304355	C304359	-
SCE210-103	C304361	C304361	-

- Not available

Ordering examples:

SC	E	210	D	001	230V / 50 Hz
SC	E	210	C	007	MO 115V / 50 Hz
SC	E	210	D	022	V 24V / DC
SC	E	210	-	103	230V / 50 Hz

prefix — pipe thread — basic number — voltage — suffix

Ordering examples kits:

C302277 ⁽³⁾	
C302373	V
C302451	E

basic number — suffix

⁽³⁾ Standard prefixes/suffixes are also applicable to kits.

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ASCO™ Solenoid Valves

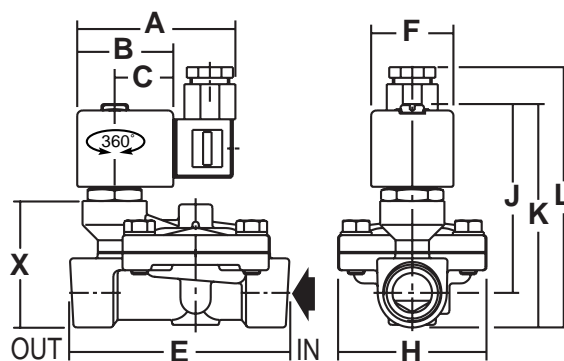
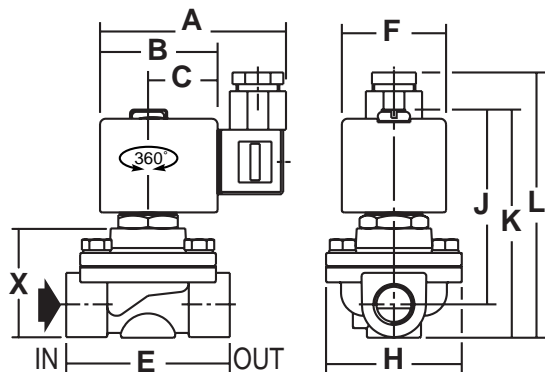
Dimensions (mm), Weight (kg)



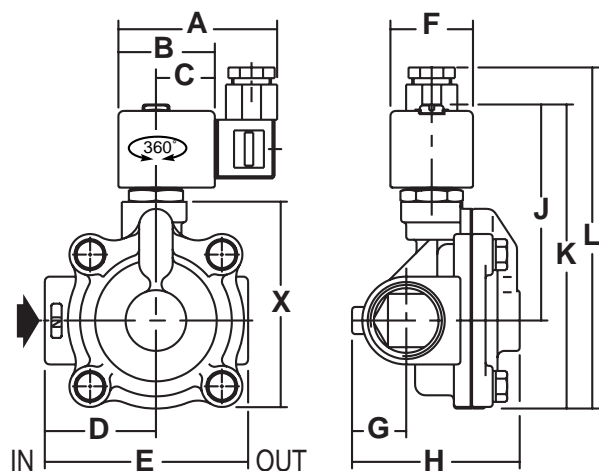
TYPE 01-02
Prefix "SC" Solenoid
Epoxy moulded
IEC 335 / ISO 4400
IP65

Type 01 (AC): SCE210D001/D002/D009
Type 02 (DC): SCE210D001/D002/D009
(AC): SCE210C006/C007

Type 01 (AC): SCE210D003
Type 02 (DC): SCE210D003



Type 01 (AC): SCE210D004/D008
Type 02 (DC): SCE210D004/D008



mounting brackets	for valves
	SCE210D001 SCE210D002 SCE210D009 SCE210C006 SCE210C007
	SCE210D003

type	prefix option	Catalog number	A	B	C	D	E	F	G	H	J	K	L	M	X	weight ⁽¹⁾
01	SC	SCE210D001/D002	75	45	27	-	70	39	-	58	72	86	103	-	46	0,8
		SCE210D009	75	45	27	-	71	39	-	58	76	92	109	-	47	0,8
		SCE210D003	75	45	27	-	100	39	-	70	90	105	122	-	60	1,3
		SCE210D004	75	45	27	52	95	39	25	75	101	143	160	-	98	1,8
		SCE210D008	75	45	27	58	115	39	33	99	105	155	172	-	109	2,0
02	SC	SCE210D001/D002	80	50	30	-	70	45	-	58	85	97	111	-	46	0,9
		SCE210D009	80	50	30	-	71	45	-	58	89	106	123	-	57	0,9
		SCE210D003	80	50	30	-	100	45	-	70	94	109	126	-	60	1,4
		SCE210C006/C007	80	50	30	-	70	45	-	58	85	99	116	-	50	0,9
		SCE210D004	80	50	30	52	95	45	25	75	105	147	164	-	98	2,0
SCE210D008	80	50	30	58	115	45	33	99	110	159	175	-	98	2,0		

⁽¹⁾ Incl. coil(s) and connector(s).

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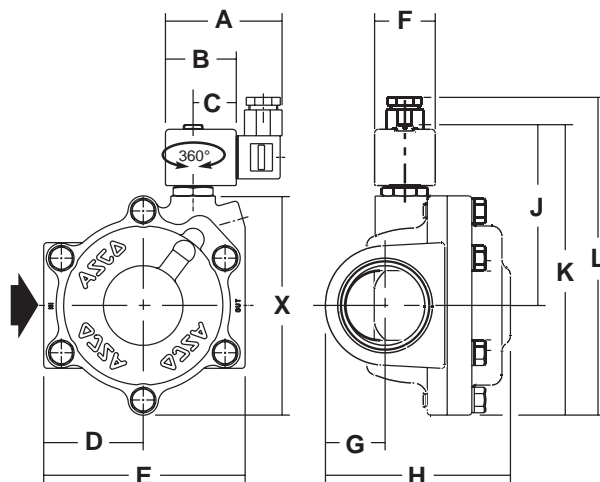
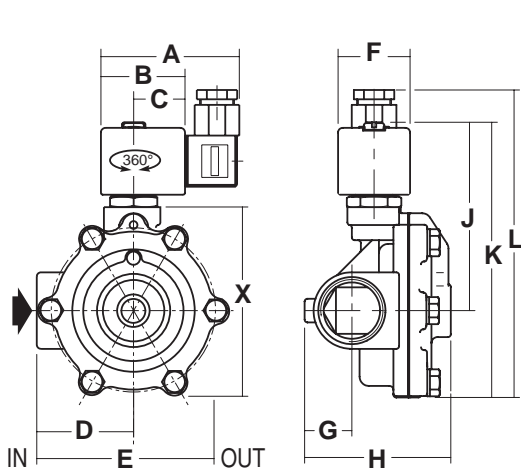
Dimensions (mm), Weight (kg)



TYPE 01-02
Prefix "SC" Solenoid
Epoxy moulded
IEC 335 / ISO 4400
IP65

Type 01 (AC): SCE210D022
Type 02 (DC): SCE210D022

Type 01, AC: SCE210-100
Type 02, DC: SCE210-100



type	prefix option	Catalog number	A	B	C	D	E	F	G	H	J	K	L	M	X	weight ⁽¹⁾
01	SC	SCE210D022	75	45	27	58	115	39	33	99	105	155	172	-	109	2,5
		SCE210-100	75	45	27	64	129	39	39	117	116	186	203	32	140	5,5
02	SC	SCE210D022	80	50	30	58	115	45	33	99	110	159	175	-	109	2,6
		SCE210-100	80	50	30	64	129	45	39	117	120	190	206	32	140	5,5

⁽¹⁾ Incl. coil(s) and connector(s).

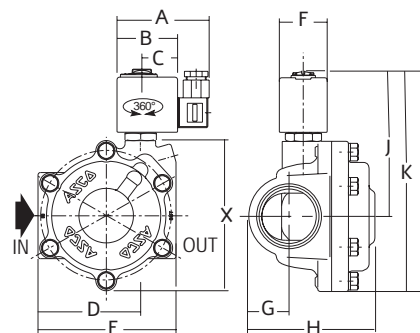
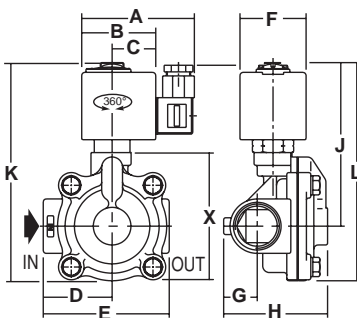
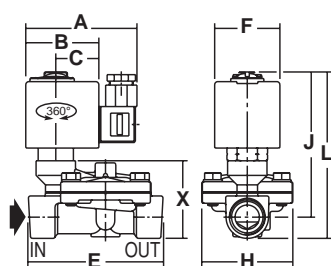


TYPE 03
Prefix "SC" Solenoid
Epoxy moulded
IEC 335 / ISO 4400
IP65

SCE210C013

SCE210A131/A132/D014/D018/D032

SCE210-103 / SCE210A133



type	prefix option	Catalog number	A	B	C	D	E	F	G	H	J	K	L	M	X	weight ⁽²⁾
03	SC	SCE210C013	91	56	33	-	96	50	-	70	112	-	120	-	81	1,6
		SCE210D014	91	56	33	52	95	50	25	75	125	-	165	-	97	2,1
		SCE210D018	91	56	33	52	95	50	30	85	125	-	165	-	108	2,0
		SCE210D032	91	56	33	56	111	50	33	95	128	-	178	-	121	2,5
		SCE210A131/A132	91	56	33	58	115	50	33	99	128	177	174	-	109	2,7
		SCE210-103	91	56	33	64	129	50	39	117	120	208	205	32	140	4,6
		SCE210A133	91	56	33	64	129	50	39	117	138	208	205	32	140	4,3

⁽²⁾ Incl. coil(s) and connector(s).

mounting brackets	for valves
	SCE210C013

ASCO™ Solenoid Valves

Dimensions (mm), Weight (kg)



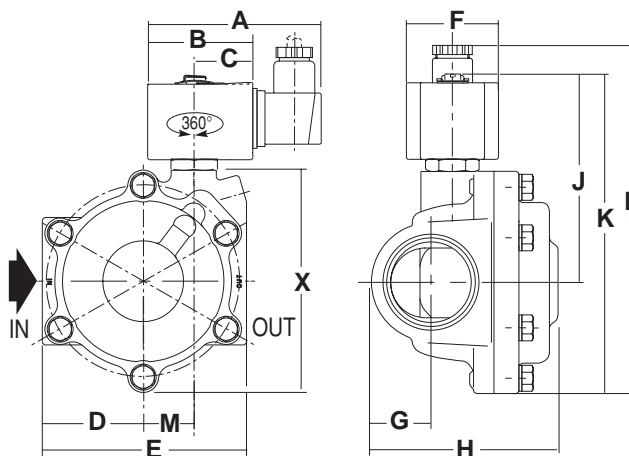
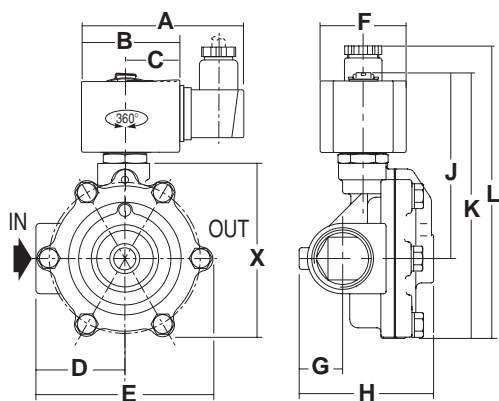
TYPE 04-05
Prefix "SC" Solenoid
Epoxy moulded
IEC 335 / ISO 4400
IP65

Type 04 (AC): SCE210G125/127

Type 05 (DC): SCE210G125/127

Type 04 (AC): SCE210G129

Type 05 (DC): SCE210G129



type	prefix option	Catalog number	A	B	C	D	E	F	G	H	J	K	L	M	X	weight ⁽¹⁾
04	SC	SCE210G125 / G127	80	45	28	58	115	39	33	99	105	155	172	-	109	2,4
		SCE210G129	80	45	28	64	129	39	39	117	116	186	203	32	140	4,0
05	SC	SCE210G125 / G127	85	50	30	58	115	45	33	99	110	159	175	-	109	2,6
		SCE210G129	85	50	30	64	129	45	39	117	120	190	206	32	140	4,2

⁽¹⁾ Incl. coil(s) and connector(s)

Series
210

ASCO™ Solenoid Valves

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