

ASCO™ Solenoid Valves

Pilot Operated, Hung Diaphragm, 3/8" to 1" 1/2

2/2
Series
210

- Two way shut-off valves for the control air, inert gas, water, oil and other gases/liquids compatible with the sealing material used
- Valves do not require a minimum operating pressure
- 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 - 120 ms

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

	Brass body	Stainless steel body
Body	Brass	AISI 304 SS
Core tube	Stainless steel	Stainless steel
Core and plugnut	Stainless steel	Stainless steel
Springs	Stainless steel	Stainless steel
Seat	Brass	Stainless steel
Seals, diaphragm & disc	NBR	NBR
Disc holder (NO function)	PA	PA
Shading coil	Copper	Silver

Electrical characteristics

Coil insulation class

F or H

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

(Other voltages and 60 Hz on request)

AC (-): 24V - 48V - 115V - 230V / 50 Hz

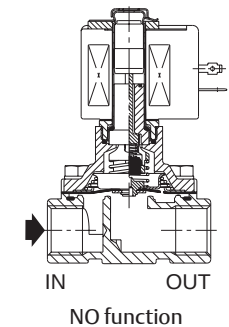
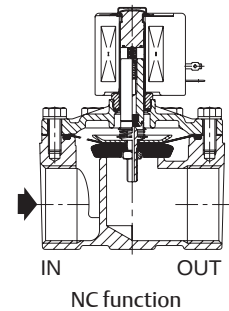
prefix option	power ratings				operator ambient temperature range (TS)	replacement coil		type ⁽¹⁾
	inrush ~	holding ~		hot/cold =		~	=	
	(VA)	(VA)	(W)	(W)				
SC	55	23	10,5	9/ 11,2	-20 to +75	400425-117	400425-142	01
	78	35	16,7	-	-20 to +50	400425-217	-	01
	110	33,6	15,4	-	-20 to +75	400525-117	-	02
	240	43	20	16,8/23	-20 to +50	400525-217	400625-242	02

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

Specifications

pipe size	orifice size	flow coefficient Kv		operating pressure differential (bar)							power coil (W)		Catalog number		options			
				min.	max. (PS)				maintained man. operator	FPM					EPDM	CR		
	air (*)	water (*)			oil (*)		brass	stainless steel										
	(mm)	(m³/h)	(l/min)		~	=	~	=	~	=	~	=						
NC - Normally closed																		
Rp 3/8	16	2,6	43	0	9	3	9	3	-	-	10,5	11,2	SCE210C093	-	MO	V	E	J
Rp 1/2	16	3,4	57	0	9	3	9	3	-	-	10,5	11,2	SCE210C094	-	MO	V	E	J
G 1/2													-	SCG210C087	MO	V	E	J
Rp 3/4	19	4,3	72	0	9	3	9	3	-	-	10,5	11,2	SCE210D095	-	MO	V	E	J
G 3/4	16	3,9	65	0	9	3	9	3	9	-	16,7	11,2	-	SCG210C088	MO	V	E	J
Rp 1	25	11,1	185	0	9	7	9	7	9	5	15,4	23	SCE210B154 ⁽²⁾	-	MO	V	E	J
G 1		9,6	160	0	9	7	9	7	9	5	15,4	23	-	SCG210D189	-	V	E	J
Rp 1 1/4	28	12,8	213	0	9	6	9	6	9	4	15,4	23	SCE210B155 ⁽²⁾	-	MO	V	E	J
Rp 1 1/2	32	19,3	322	0	9	5	9	5	9	3	15,4	23	SCE210B156 ⁽²⁾	-	MO	V	E	J

⁽²⁾ Mounting position, DC only: piping horizontal, solenoid upright.



Specifications

pipe size	orifice size	flow coefficient Kv		operating pressure differential (bar)								power coil (W)		catalogue number		options				
				min.	max. (PS)						maintained man. operator					FPM	EPDM	CR		
	air (*)	water (*)			oil (*)		brass	stainless steel												
	(mm)	(m³/h)	(l/min)		~	=	~	=	~	=	~	=								
NO - Normally open																				
Rp 3/8	16	2,6	43	0	9	9	9	9	9	5	10,5	11,2	SCE210C033	-	-	V	E	J		
Rp 1/2	16	3,4	57	0	9	9	9	9	9	5	10,5	11,2	SCE210C034	-	-	V	E	J		
NPT 1/2		2,6	43	0	9	9	9	9	9	7	5	10,5	11,2	-	SCB210B030	-	V	E	J	
Rp 3/4	19	4,7	79	0	9	9	9	9	9	5	10,5	11,2	SCE210C035	-	-	V	E	J		
NPT 3/4	16	2,6	43	0	9	9	9	9	9	7	5	10,5	11,2	-	SCB210B038	-	V	E	J	
Rp 1	25	11,2	185	0	9	-	9	-	9	-	20	-	SCE210B057 ⁽¹⁾	-	-	V	E	J		
Rp 1 1/4	28	12,8	213	0	9	-	9	-	9	-	20	-	SCE210B058 ⁽¹⁾	-	-	V	E	J		
Rp 1 1/2	32	19.3	322	0	9	-	9	-	9	-	20	-	SCE210B059 ⁽¹⁾	-	-	V	E	J		

⁽¹⁾ Mounting position: piping horizontal, solenoid upright.

Options

- Valves can also be supplied with FPM (fluoroelastomer), EPDM (ethylene-propylene) and CR (chloroprene) diaphragms, 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
- Mounting brackets for brass bodied valves, suffix MB (Except pipe size Rp 1, 1 1/4 and 1 1/2)
- For protection against corrosion caused by the environment or the fluid, contact us
- 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, unless indicated otherwise in the specifications table.
- Stainless steel valves are standard supplied with mounting brackets
- Pipe connection identifiers are: G = G (ISO 228/1), E = Rp (ISO 7/1) or B = NPT (ANSI 1.20.3)
- Installation/maintenance instructions are included with each valve

Spare parts kit & Accessories

Catalog number	spare parts kit no.		mounting bracket
	~	=	
SCE210C093/C094	C302272	C302372	038713-000
SCE210D095	C302276	C302375	038713-000
SCE210B154	C302283	C133800	-
SCE210B155	C302283	C133801	-
SCE210B156	C302286	C133802	-
SCE210C033/C034	C302334	C302449	038713-000
SCE210C035	C302335	C302450	038713-000
SCE210B057	C302337	-	-
SCE210B058	C302339	-	-
SCE210B059	C302340	-	-
SCG210C087/C088	C302328	C302423	038713-000
SCB210B030/B038	C302347	C302447	-
SCG210D189	C302329	C133668	-

- Not available

Ordering examples:

SC	E	210 C 093	230V / 50 Hz
SC	E	210 C 094	MO 115V / 50 Hz
SC	B	210 C 087	V 24V / DC
SC	B	210 D 089	230V / 50 Hz

prefix — pipe thread — basic number — voltage — suffix

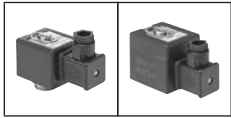
Ordering examples kits:

C302272 ⁽³⁾	
C302276	V
C302449	E

basic number — suffix

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

Dimensions (mm), Weight (kg)



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

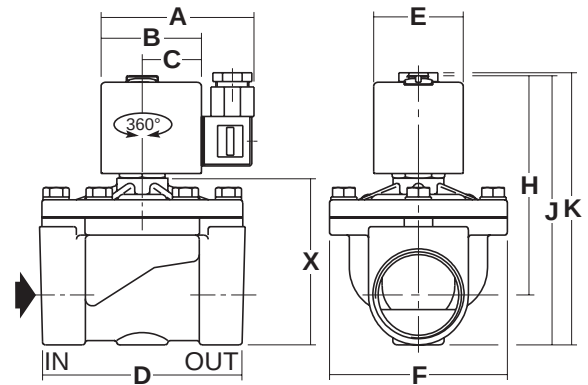
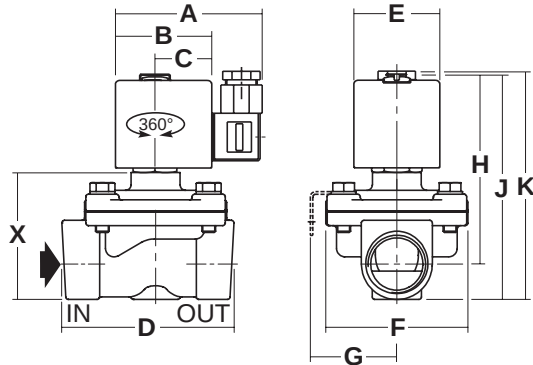
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SCG210C087/C088

Type 02: SCE210B154/B155

SCG210D189

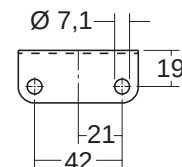
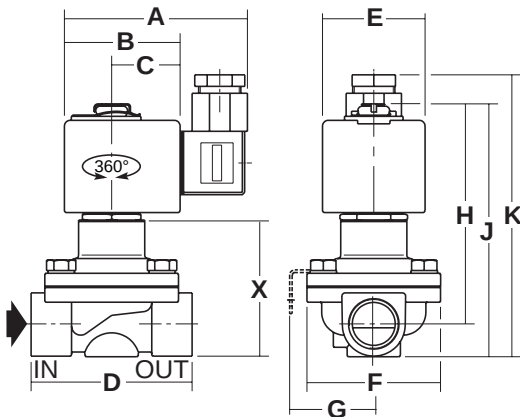
Type 02: SCE210B156



Type 01: SCE210C033/C034/C035

SCB210B030/B038

Type 02: SCB210B057/B058/B059



Mounting brackets for valves: (0,3 kg)
SCE210C093/C094/D095
SCG210C087/C088/D189
SCE210C033/C034/C035

type	prefix option	Catalog number	A	B	C	D	E	F	G	H	J	K	X	weight ⁽²⁾
01	SC	SCE210C093/C094	80	50	30	70	45	58	41	80	97	109	46	0,8
		SCE210D095	80	50	30	73	45	58	41	89	103	121	54	1,0
		SCG210C087/C088	80	50	30	71	45	61	41	87	105	122	55	1,0
		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	1,0
		SCB210B030/B038	80	50	30	71	45	59	41	100	116	133	67	1,0
02	SC	SCE210B156	86	56	33	111	50	99	-	125	153	158	96	2,8
		SCE210B154	86	56	33	95	50	83	-	112	129	137	75	2,0
		SCE210B155	86	56	33	95	50	83	-	112	143	148	86	2,0
		SCG210D189	86	56	33	95	50	99	56	113	133	132	77	2,2
		SCE210B057	86	56	33	95	50	83	-	155	172	157	98	2,0
		SCE210B058	86	56	33	95	50	83	-	161	187	187	130	2,0
		SCE210B059	86	56	33	111	50	99	-	167	194	194	137	2,5

⁽²⁾ Incl. coil(s) and connector(s)

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