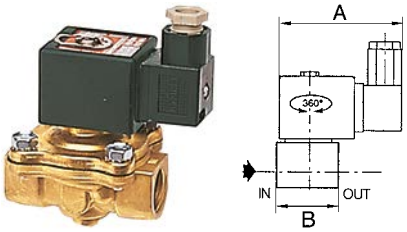
2/2-way solenoid valve

2/2-way type

MAX

Art. No. **102854**

Type No. **MV 1216**



Exemplary illustration

Standard series, proven over many years, available in three different versions

- Directly operated
- Combined operation
- Pilot-operated

For all applications with compressed air, neutral gases or low-viscosity, neutral media.

Technical data

Housing	brass
Valve seat	brass
Internal parts	stainless steel
Protection IP	IP 65 (with connector socket fitted)
Type	3
Function	normally closed (NC)
Thread	Rp 3/8
DN	16 mm
Voltage	230 V AC
Operating pressure	0.35 - 14 bar
Sealant	NBR
Electrical connection	ISO 4400, cable socket (PG 11 P)
Medium temperature	-20 to 85 °C
Ambient temperature	-20 to 50 °C
Standard thread	ISO 7-1
A	75.0 mm
B	70.0 mm

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Commercial data

Customs tariff number	84812090
Country of origin	DE
eCl@ss 5.1.4	27220601
eCl@ss 9.0	27220601
UNSPSC_Code_v190501	40141605
UNSPSC_CodeDesc_v190501	Solenoid valves

Material informations

REACH SVHC1 substance name	lead
CAS no. SVHC 1	7439-92-1
RoHS materials notice	RoHS compliant
REACH Info	contains SVHC substance

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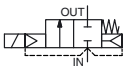
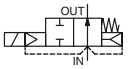
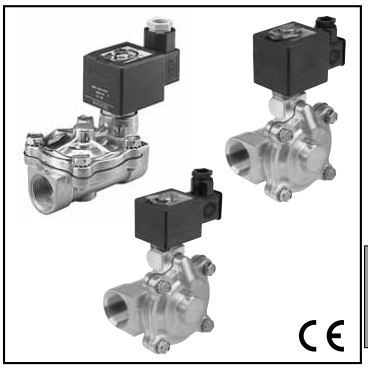
SOLENOID VALVES

pilot operated
floating diaphragm
3/8 to 2

NC 

NO 

2/2
Series
210



C

FEATURES

- *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 NO products are covered by Pressure Equipment Directive 97/23/EC and are suitable for group 1 and 2 fluids*
- *The solenoid valves satisfy all relevant EC 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 1 1/2)

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

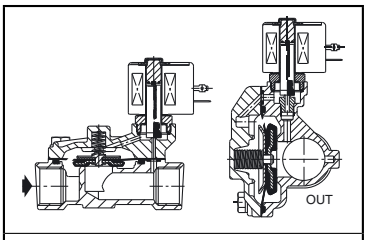
Body	Brass
Core tube	Stainless steel
Core and plugnut	Stainless steel
Springs	Stainless steel
Seat	Brass
Seal, diaphragm & disc	NBR
Disc holder (NO function)	PA
Shading coil	Copper

ELECTRICAL CHARACTERISTICS

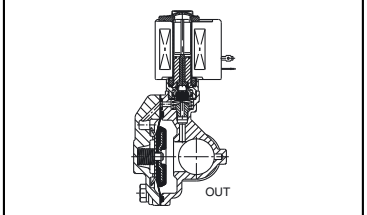
Coil insulation class	F
Connector	Spade plug (cable Ø 6-10 mm)
Connector specification	ISO 4400 / EN 175301-803, form A
Electrical safety	IEC 335
Electrical enclosure protection	Moulded IP65 (EN 60529)
Standard voltages	DC (⎓) : 24V - 48V
(Other voltages and 60 Hz on request)	AC (~) : 24V - 48V - 115V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

prefix option	power ratings inrush ~ (VA)	power ratings holding ~ (VA)	power ratings holding ~ (W)	power ratings hot/cold = (W)	operator ambient temperature range (TS) (C°)	replacement coil ~ 230 V/50 Hz	replacement coil = 24 V DC	type (1)
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

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



NC function



NO function

SPECIFICATIONS

pipe size	orifice size	flow coefficient Kv		min.	operating pressure differential (bar) max. (PS) air (✳) ~	air (✳) =	water (✳) ~	water (✳) =	oil (✳) ~	oil (✳) =	power coil (W) ~	power coil (W) =	catalogue number	options maintained man. operator	FPM	EPDM	CR
Rp	(mm)	(m³/h)	(l/min)														
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
1 1/4	28	12,8	213	0,35	9	9	9	9	9	9	6	11,2	**SCE210D008**	MO	V	E	J
1 1/2	32	19,3	322	0,35	9	9	9	9	9	9	6	11,2	**SCE210D022**	MO	V	E	J
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
1 1/2	32	19,3	322	0,35	9	9	9	9	9	9	15,4	16,8	**SCE210D032**	-	V	E	J
2	44	37	617	0,35	9	9	9	9	9	9	15,4	16,8	**SCE210-103** (2)	-	V	E	J

(2) Floating piston construction.

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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 94/9/EC (see "Explosionproof solenoids" section)
- 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
- Plug with visual indication and peak voltage suppression or with cable length of 2 m (see Solenoids, Coils & Accessories section)

INSTALLATION

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

SPARE PARTS KIT & ACCESSORIES

catalogue number	spare parts kit no.		mounting bracket
	~	=	
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**	**-**
SCE210-103	**C304361**	**C304361**	**-**

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

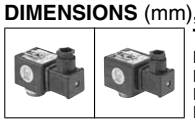
prefix — pipe thread — basic number — voltage — suffix

ORDERING EXAMPLES KITS:

C302277(1)	
C302373	**V**
C302451	**E**

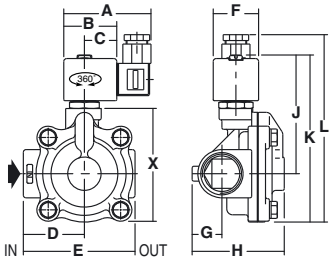
basic number — suffix

DIMENSIONS (mm), WEIGHT (kg)

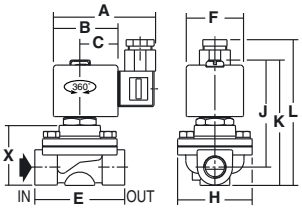


TYPE 01-02
Prefix "SC" Solenoid
Epoxy moulded
IEC 335 / ISO 4400
IP65

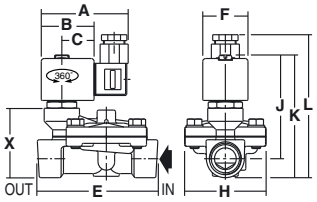
Type 01 (AC): SCE210D004/D008/D022
Type 02 (DC): SCE210D004/D008/D022



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



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



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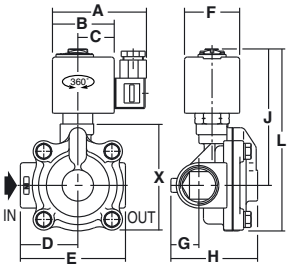
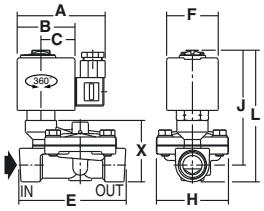
TYPE 03
Prefix "SC" Solenoid
Epoxy moulded
IEC 335 / ISO 4400
IP65

SCE210D014/D018/D032

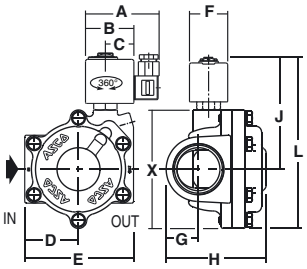


SCE210C013



C

SCE210-103



type	prefix option	catalogue number	A	B	C	D	E	F	G	H	J	K	L	X	weight [2]
01	SC	SC E210D001/D002	75	45	27	-	70	39	-	58	72	86	103	46	0,8
		SC E210D009	75	45	27	-	71	39	-	58	76	92	109	47	0,8
		SC E210D003	75	45	27	-	100	39	-	70	90	105	122	60	1,3
		SC E210D004	75	45	27	52	95	39	25	75	101	143	160	98	1,8
		SC E210D008	75	45	27	52	95	39	30	85	101	143	160	98	2,0
		SC E210D022	75	45	27	56	111	39	33	100	105	156	173	109	2,5
02	SC	SC E210D001/D002	80	50	30	-	70	45	-	58	85	97	111	46	0,9
		SC E210D009	80	50	30	-	71	45	-	58	89	106	123	57	0,9
		SC E210D003	80	50	30	-	100	45	-	70	94	109	126	60	1,4
		SC E210C006/C007	80	50	30	-	70	45	-	58	85	99	116	50	0,9
		SC E210D004	80	50	30	52	95	45	25	75	105	147	164	98	2,0
		SC E210D008	80	50	30	52	95	45	30	85	105	147	164	98	2,0
		SC E210D022	80	50	30	56	111	45	33	100	109	160	174	109	2,6
03	SC	SC E210C013	86	56	33	-	96	50	-	70	112	-	120	81	1,6
		SC E210D014	86	56	33	52	95	50	25	75	125	-	165	97	2,1
		SC E210D018	86	56	33	52	95	50	30	85	125	-	165	108	2,0
		SC E210D032	86	56	33	56	111	50	33	95	128	-	178	121	2,5
		SC E210-103	86	56	33	65	129	50	38	119	138	-	208	151	4,6

[2] Incl. coil(s) and connector(s).

mounting brackets	for valves
	SCE210D001 **SCE210D002** **SCE210D009** **SCE210C006** **SCE210C007**
	SCE210D003 **SCE210C013**

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