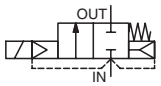
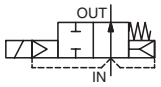
SOLENOID VALVES

pilot operated
hung diaphragm, gaseous fluids
3/8 to 3

NC 

NO 

2/2
Series
215

FEATURES

- *The valves are for the control of low pressure air and gases, compatible with the seal materials used*
- *Aluminium bodied valves designed to provide maximum flow*
- *The valve have a resilient soft seating for tight shut-off*
- *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*



C

GENERAL

Differential pressure See «SPECIFICATIONS» [1 bar =100 kPa]
Response time 25 - 120 ms

fluids (✳)	temperature range (TS)	seal materials (✳)
air, fuel gas NC: inert gas	-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

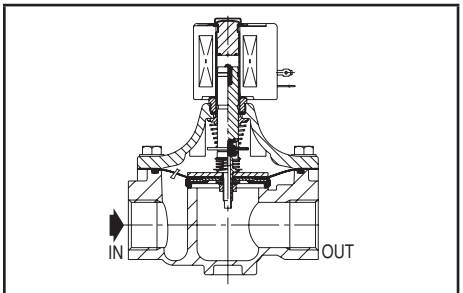
Body Aluminium
Core tube Stainless steel
Core and plugnut Stainless steel
Springs Stainless steel
Seat Aluminium or stainless steel
Seals, diaphragms & discs NBR
Core guide POM
Disc holder (NO function) PA
Rider rings PTFE
Shading coil Copper

ELECTRICAL CHARACTERISTICS

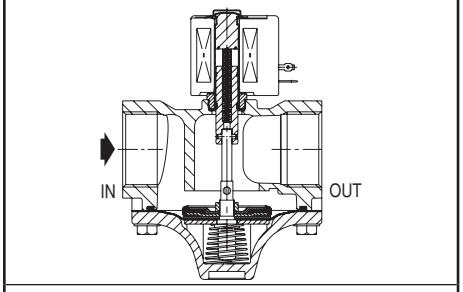
Coil insulation class F
Connector Spade plug (cable Ø 6-10 mm) or cable leads, 0,35 m length (EF)
Connector specification ISO 4400 / EN 175301-803, form A
Electrical safety IEC 335
Electrical enclosure protection Moulded IP65 (EN 60529) or NEMA 3, 7, 9 (EF)
Standard voltages DC (=) : 24V - 48V
(Other voltages and 60 Hz on request) AC (~) : 24V - 48V - 115V - 230V / 50 Hz

prefix option	power ratings inrush ~ (VA)	holding ~ (VA)	holding ~ (W)	hot/cold = (W)	operator ambient temperature range (TS) (C°)	replacement coil ~ 230 V/50 Hz	replacement coil = 24 V DC	type (1)
SC	55	23	10,5	9/ 11,2	-20 to +75	400425-117	400425-142	01
	110	33,6	15,4	-	-20 to +75	400525-117	-	02
EF	385	50	28,2	11/14,9	-20 to +75	206409-035D	062691-002D	03

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



NC function



NO function

SPECIFICATIONS

pipe size	orifice size	flow coefficient Kv		operating pressure differential (bar) min.	max. (PS) air (✳)		max. (PS) fuel gas (✳)		power coil (W)		catalogue number		options		
													FPM	CR	
Rp	(mm)	(m^3/h)	(l/min)		~	=	~	=	~	=	~	=			
NC - Normally closed															
3/8	19	2,9	48,3	0	3,5	1,8	3,5	1,8	10,5	11,2	**SCE215C010** (4)	**SCE215C010** (4)	V	J	-
1/2	19	3,8	63,3	0	3,5	1,8	3,5	1,8	10,5	11,2	**SCE215C020** (4)	**SCE215C020** (4)	V	J	-
3/4	19	4,4	73,3	0	3,5	1,8	3,5	1,8	10,5	11,2	**SCE215C030** (4)	**SCE215C030** (4)	V	J	-
1	41	18	300	0	1,8	1,8	1,8	1,8	15,4	14,9	**SCE215B050**	**EFE215B050** (2)	V	J	-
1 1/4	41	27	450	0	1,8	1,8	1,8	1,8	15,4	14,9	**SCE215B060**	**EFE215B060** (2)	V	J	-
1 1/2	41	30	500	0	1,8	1	1,8	1	15,4	14,9	**SCE215B070**	**EFE215B070** (2)	V	J	-
2	53	50	833	0	1,8	1	1,8	1	15,4	14,9	**SCE215B080**	**EFE215B080** (2)	V	J	-
2 1/2	76	100	1667	0	0,35	-	0,35	-	28,2	-	**EFE215A090** (2)	-	V	J	-
3	76	118	1967	0	0,35	-	0,35	-	28,2	-	**EFE215A040** (2)	-	V	J	-
NO - Normally open															
3/8	19	2,7	45	0	9	9	9	9	10,5	11,2	**SCE215A013**	**SCE215A013**	V	J	-
1/2	19	3,4	56,7	0	9	9	9	9	10,5	11,2	**SCE215A023**	**SCE215A023**	V	J	-
3/4	19	3,9	65	0	9	9	9	9	10,5	11,2	**SCE215A033**	**SCE215A033**	V	J	-
1	41	18	300	0	1,8	1	1,8	1	15,4	14,9	**SCE215C053**	**EFE215C053** (3)	V	J	-
1 1/4	41	28	450	0	1,8	1	1,8	1	15,4	14,9	**SCE215C063**	**EFE215C063** (3)	V	J	-
1 1/2	41	31	500	0	1,8	1	1,8	1	15,4	14,9	**SCE215C073**	**EFE215C073** (3)	V	J	-
2	53	50	833	0	1,8	1	1,8	1	15,4	14,9	**SCE215C083** (2)	**EFE215C083** (2)(3)	V	-	-
2 1/2	76	100	1667	0	0,35	-	0,35	-	28,2	-	**EFE215B093** (2)	-	V	-	-

(2) Mounting position: piping horizontal, solenoid upright.
(3) Lead connection coil on DC.
(4) Valves have stainless steel seat.

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OPTIONS

- Valves can also be supplied with FPM (fluoroelastomer) 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 (see “Explosionproof solenoids” section)
- Electrical enclosures according to “NEMA” standards are available
- Compliance with “UL”, “CSA” and other local approvals available on request
- Mounting brackets (3/8, 1/2 and 3/4 only), suffix MB
- 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, unless indicated otherwise in the specifications table.
- 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 no.
	~	=	
SCE215C010/C020/C030	**C302350**	**C302430**	**038713-000**
SCE215B050/B060/B070	**C302352**	**-**	**-**
EFE215B050/B060/B070	**-**	**C302432**	**-**
SCE215B080	**C302353**	**-**	**-**
EFE215B080	**-**	**C302433**	**-**
EFE215A090/A040	**C302354**	**-**	**-**
SCE215A013/A023/A033	**C302361**	**C302439**	**038713-000**
SCE215C053/C063/C073	**C304691**	**-**	**-**
EFE215C053/C063/C073	**-**	**C304699**	**-**
SCE215C083	**C304692**	**-**	**-**
EFE215C083	**-**	**C304700**	**-**
EFE215B093	**C302365**	**-**	**-**

(1) Standard prefixes/suffixes are also applicable to kits.
- Not available

ORDERING EXAMPLES:

SC	E	215 **C** 010		230V / 50 Hz
SC	E	215 **C** 020	**MB**	115V / 50 Hz
EF	E	215 **A** 090	**V**	230V / 50 Hz
EF	E	215 **B** 070		24V / DC
prefix				
pipe thread				voltage
basic number				suffix

ORDERING EXAMPLES KITS:

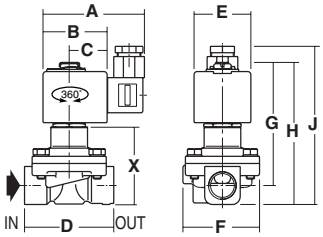
C302350(1)	
C302352	**V**
C302432	**J**
basic number	suffix

DIMENSIONS (mm), WEIGHT (kg)



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

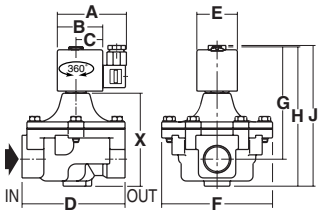
SCE215C010/C020/C030
SCE215A013/A023/A033



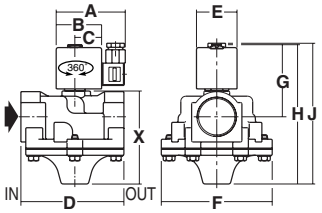


TYPE 02
Prefix “SC” Solenoid
Epoxy moulded
IEC 335 / ISO 4400
IP65

AC: SCE215B050/B060/B070/B080



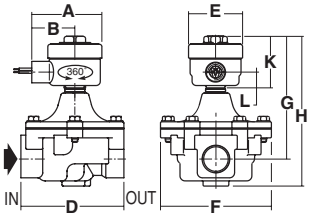
AC: SCE215C053/C063/C073/C083



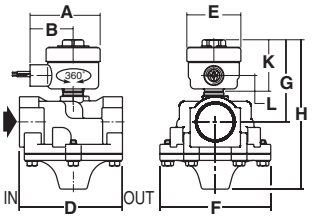


TYPE 03
Prefix “EF” Solenoid
Epoxy encapsulated
ICS-6 ANSI
NEMA type 3-7-9

DC: EFE215B050/060/070/080
EFE215A090/A040

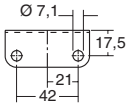


DC: EFE215C053/063/073/083
EFE215B093



type	prefix option	catalogue number	A	B	C	D	E	F	G	H	J	K	L	X	weight (2)
01	SC	SCE215C010/C020	80	50	30	70	45	60	88	102	119	-	-	53	0,6
		SCE215C030	80	50	30	84	45	60	93	113	130	-	-	59	0,7
		SCE215A013/A023	80	50	30	70	45	60	99	114	131	-	-	65	0,5
		SCE215A033	80	50	30	84	45	60	104	125	142	-	-	68	0,7
02	SC	SCE215B050/B060/B070	86	56	33	127	50	137	140	171	172	-	-	121	1,8
		SCE215B080	86	56	33	155	50	160	149	188	188	-	-	139	2,1
		SCE215C053/C063/C073	86	56	33	127	50	137	90	172	172	-	-	123	1,5
		SCE215C083	86	56	33	155	50	160	95	187	187	-	-	132	2,3
03	EF	EFE215B050/B060/B070	83	64	-	127	64	137	161	193	-	78	19	-	2,3
		EFE215B080	83	64	-	155	64	160	170	208	-	78	19	-	2,9
		EFE215C053/C063/C073	83	64	-	127	64	137	112	193	-	78	19	-	2,3
		EFE215C083	83	64	-	155	64	160	117	208	-	78	19	-	2,9
		EFE215A090/A040	83	64	-	198	64	202	194	253	-	78	19	-	5,0
		EFE215B093	83	64	-	198	64	202	125	255	-	78	19	-	5,0

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



Mounting brackets for valves:
SCE215C010
SCE215C020
SCE215C030
SCE215A013
SCE215A023
SCE215A033

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