ASCO®
numatics®

заказ: тел/факс 8056-744-97-31, 8067-618-05-10

Solenoid and pressure operated valve technology

- Function, terminology and construction types

Technical specification

Core
Soft-magnetic plugnut moved by magnetic forces (flux generated by the coil).

Core spring
Spring which keeps the core in fixed position when the coil is de-energised.

Core tube
Stainless steel tube closed at one end, installed to improve the magnetic flux of the solenoid coil upon energisation.

Disc, valve disc
Sealing material on the core or disc-holder which shuts off the seat orifice.

Disc holder
Valve part, actuated by the core, in which the sealing disc is inserted.

Disc spring
Spring in the disc holder which provides a positive closing action to the disc.

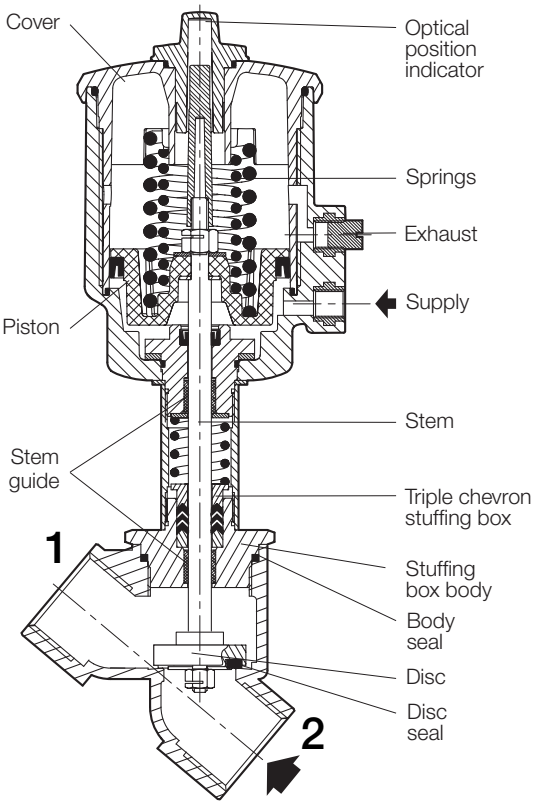
Pilot orifice
Orifice located in the centre of a diaphragm or a piston of pilot operated valves, opened or closed by the core.

Plugnut
Stationary core pressed in the closed end of the core tube, installed to improve the magnetic flux of the solenoid coil upon energisation.

Disc, valve disc
Sealing material on the core or disc-holder which shuts off the seat orifice.

DiCoreDiscSeal
tCorespr
Disc seal

macloy-28(the)-212/T1s1 1 Tf22 -1.125pi8(the)-2keeps1 1 Tf22 -1.125T1D58(nal 1 Tf0 -1the)-28T/T1plate,)-



Solenoid Valves

2/2 and 3/2 direct acting M5

- Fast response time
- Various voltages
- Pressure range 0 to 14 bar
- N/O, N/C and Universal operation

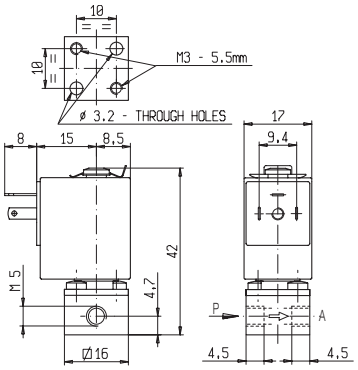
Technical specification

Differential pressure	0-14 bar
Max. viscosity	22 cSt (mm²/s)
Response time	5-10 ms
Media	Water, air, gas
Media temperature	-10 °C to +90 °C NBR (Nitrile)
Protection class	IP65
Standard voltages	DC (=) 12-24 V
	AC (~) 24 V
Connector	DIN 43650 Micro

Construction	
Valve body	Nickel plated brass
Plunger	Stainless steel
Spring	Stainless steel
Seat	Brass
Shading ring	Copper
Coil	PET
Seals	Nitrile
Special seals	FPM

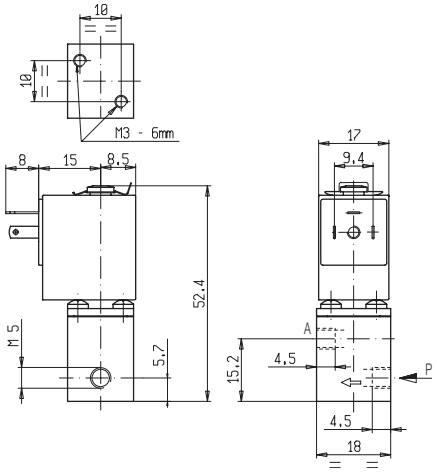
Dimensions

V165



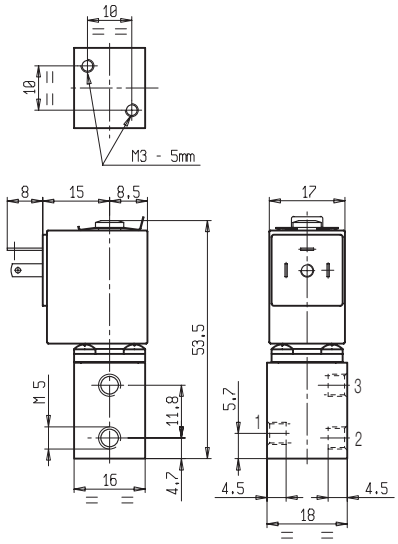
Weight (kg) 0.060

V265



Weight (kg) 0.085

V365



Weight (kg) 0.090

Ordering information

Coil	Power consumption			Ambient temperature	Coil part number		
	In rush	Holding					
	~	~	=		12 V DC	24 V DC	24 V AC
	VA	VA	W				
Z031A	6	5	4	-10 °C to +60 °C	**Z031A/12VDC**	**Z031A/24VDC**	**Z031A/24VAC**
Z031C	4	3	2.5	-10 °C to +60 °C	**Z031C/12VDC**	**Z031C/24VDC**	**Z031C/24VAC**

Part number	Port size	Orifice	Flow rate	Differential pressure bar			Coil
	ISO-UNI mm		m³/h	min.	air/gas/water		
					~	=	
2/2, NC - Normally closed							
V165B02-1.1	M5	1.1	0.04	0	14	10	Z031C
V165B02-2.0	M5	2.0	0.10	0	8	4	Z031A
2/2, NO - Normally open							
V265B01-2.0	M5	2.0	0.10	0	-	3.5	Z031A
3/2, U - Universal							
V365B01G-1.2	M5	1.2	0.04	0	6	6	Z031A
V365B01G-2.0	M5	2.0	0.08	0	1.5	1.5	Z031A

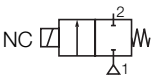
заказ: тел/факс 8056-744-97-31, 8067-618-05-10

2/2 direct acting 1/8”

- Brass and stainless steel versions
- N/C and N/O options
- Range of voltages available

Technical specification

Differential pressure	0-28 bar
Max. allowable pressure	28 bar
Max. viscosity	40 cSt (mm²/s)
Response time	5-10 ms
Media	Air, gas, water and oil
Media temperature	-10 °C to +100 °C NBR (Nitrile)
Protection class	IP65
Standard voltages	DC (=) 24V AC (~) 24V - 115V - 230V / 50Hz
Connector	DIN 43650 industrial



Construction		
Valve body	Brass	AISI316
Core tube	Stainless steel	Stainless steel
Plunger	Stainless steel	Stainless steel
Spring	Stainless steel	Stainless steel
Seat	Brass	Stainless steel
Seals	FPM	FPM
Disc seal	FPM	FPM
Special seals	EPDM, PTFE	EPDM, PTFE
Shading ring	Copper	Copper
Coil	PET	PET

Dimensions

Fig. 1 NC

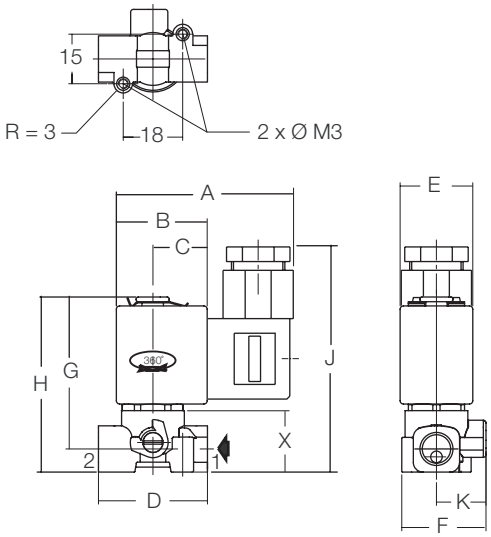
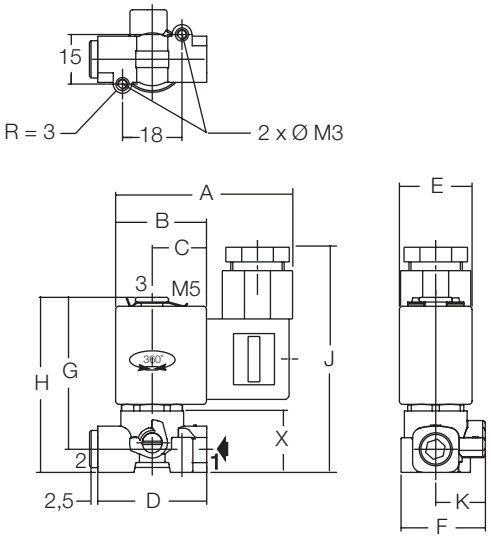


Fig. 2 NO



Valve	A	B	C	D	E	F	G	H	J	K	X	Weight
Brass	58.5	27.5	16.5	33	22	25.5	46	53	69	15	18.6	0.16
Stainless steel	58.5	27.5	16.5	33	22	25.5	46	53	69	15	18.6	0.14

Ordering information

Coil	Power consumption				Ambient temperature
	In rush		Holding	Hot/cold	
	~		~	=	
	VA	VA	W	W	
CM22A	12	6	4	4.5 / 5.5	-10 °C to +60 °C

Part number	Connection thread	Orifice	Flow rate		Differential pressure bar			Coil
	G	mm	m³/h	l/min.	min.	~	=	
Normally closed, brass								
SCG256A001VMS	1/8	1.2	0.05	0.8	0	28	20	CM22A
SCG256A002VMS	1/8	1.6	0.08	1.33	0	20	12	CM22A
SCG256A003VMS	1/8	2.0	0.11	1.83	0	15	6	CM22A
SCG256A004VMS	1/8	2.4	0.13	2.16	0	12	4	CM22A
Normally closed, stainless steel								
SCG256A013VMS	1/8	1.2	0.05	0.8	0	28	20	CM22A
SCG256A014VMS	1/8	1.6	0.08	1.33	0	20	12	CM22A
SCG256A015VMS	1/8	2.0	0.11	1.83	0	15	6	CM22A
SCG256A016VMS	1/8	2.4	0.13	2.16	0	12	4	CM22A
Normally open, brass								
SCG256A006VMS	1/8	1.6	0.08	1.33	0	10	10	CM22A
Normally open, stainless steel								
SCG256A018VMS	1/8	1.6	0.08	1.33	0	10	10	CM22A

Repair kits and coils

Valve	Repair kit AC	Repair kit DC	24 V DC	24 V AC	115 V AC	230 V AC
SCG256A001	C140262V	C140262V	43005413	43005421	43005425	43005429
SCG256A002	C140262V	C140262V	43005413	43005421	43005425	43005429
SCG256A003	C140262V	C140262V	43005413	43005421	43005425	43005429
SCG256A004	C140262V	C140262V	43005413	43005421	43005425	43005429
SCG256A006	C140263V	C140263V	43005413	43005421	43005425	43005429
SCG256A013	C140267V	C140267V	43005413	43005421	43005425	43005429
SCG256A014	C140267V	C140267V	43005413	43005421	43005425	43005429
SCG256A015	C140267V	C140267V	43005413	43005421	43005425	43005429
SCG256A016	C140267V	C140267V	43005413	43005421	43005425	43005429
SCG256A018	C140268V	C140268V	43005413	43005421	43005425	43005429

заказ: тел/факс 8056-744-97-31, 8067-618-05-10

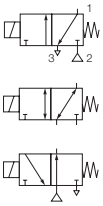
3/2 direct acting 1/8”

- N/O, N/C and Universal operation
- Operates from zero pressure
- Voltage options available
- Pressure range 0 to 15 bar

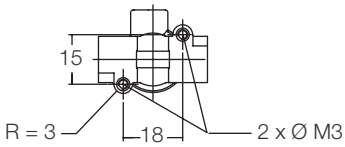
Technical specification

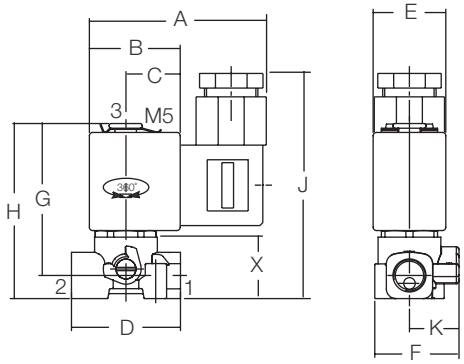
Differential pressure	0-15 bar
Max. allowable pressure	15 bar
Max. viscosity	40 cSt (mm²/s)
Response time	5- 10 ms
Media	Air, gas, water and oil
Media temperature	-10 °C to +100 °C
Protection class	IP65
Standard voltages	DC (=) 24V AC (~) 24V - 115V - 230V / 50Hz
Connector	DIN 43650 industrial

Construction		
Valve body	Brass	AISI316
Core tube	Stainless steel	Stainless steel
Plunger	Stainless steel	Stainless steel
Spring	Stainless steel	Stainless steel
Seat	Brass	Stainless steel
Seals	FPM	FPM
Disc seal	FPM	FPM
Shading ring	EPDM, PTFE	EPDM, PTFE
Coil	Copper	Copper
Special seal	PET	PET



Dimensions





Valve	A	B	C	D	E	F	G	H	J	K	X	Weight (kg)
Brass	58.5	27.5	16.5	33	22	25.5	46	53	69	15	18.6	0.16
Stainless steel	58.5	27.5	16.5	33	22	25.5	46	53	69	15	18.6	0.14

Ordering information

Coil	Power consumption				Ambient temperature
	In rush	Holding		Hot/cold	
	~	~		=	
	VA	VA	W	W	
CM22A	12	6	4	4.5 / 5.5	-10 °C to +60 °C

Part number	Connection thread	Orifice	Flow rate		Differential pressure bar			Coil
	G	mm	m³/h	l/min.	min.	~	=	~ /=
Normally closed, brass								
SCG356A001VMS	1/8	1.2	0.05	0.8	0	15	15	CM22A
SCG356A002VMS	1/8	1.6	0.08	1.33	0	10	10	CM22A
SCG356A003VMS	1/8	2.0	0.10	1.66	0	5	5	CM22A
SCG356A004VMS	1/8	2.4	0.13	2.10	0	4	4	CM22A
Normally closed, stainless steel								
SCG356A013VMS	1/8	1.2	0.05	0.8	0	15	15	CM22A
SCG356A014VMS	1/8	1.6	0.08	1.33	0	10	10	CM22A
SCG356A015VMS	1/8	2.0	0.10	1.66	0	5	5	CM22A
SCG356A016VMS	1/8	2.4	0.13	2.10	0	4	4	CM22A
Universal, brass								
SCG356A010VMS	1/8	1.6	0.06	1.00	0	4.5	4.5	CM22A
SCG356A011VMS	1/8	2.0	0.08	1.33	0	3	3	CM22A
SCG356A012VMS	1/8	2.4	0.09	1.50	0	2	2	CM22A
Universal, stainless steel								
SCG356A022VMS	1/8	1.6	0.06	1.00	0	4.5	4.5	CM22A
SCG356A023VMS	1/8	2.0	0.08	1.33	0	3	3	CM22A
SCG356A024VMS	1/8	2.4	0.09	1.50	0	2	2	CM22A
Normally open, brass								
SCG356A006VMS	1/8	1.6	0.10	1.60	0	8.5	8.5	CM22A
Normally open, stainless steel								
SCG356A018VMS	1/8	1.6	0.10	1.60	0	8.5	8.5	CM22A

Repair kits and coils

	Part number					
Valve	Repair kit AC	Repair kit DC	24 V DC	24 V AC	115 V AC	230 V AC
SCG356A001	C140264V	C140264V	43005413	43005421	43005425	43005429
SCG356A002	C140264V	C140264V	43005413	43005421	43005425	43005429
SCG356A003	C140264V	C140264V	43005413	43005421	43005425	43005429
SCG356A004	C140264V	C140264V	43005413	43005421	43005425	43005429
SCG356A006	C140265V	C140265V	43005413	43005421	43005425	43005429
SCG356A010	C140266V	C140266V	43005413	43005421	43005425	43005429
SCG356A011	C140266V	C140266V	43005413	43005421	43005425	43005429
SCG356A012	C140266V	C140266V	43005413	43005421	43005425	43005429
SCG356A013	C140269V	C140269V	43005413	43005421	43005425	43005429
SCG356A014	C140269V	C140269V	43005413	43005421	43005425	43005429
SCG356A015	C140269V	C140269V	43005413	43005421	43005425	43005429
SCG356A016	C140269V	C140269V	43005413	43005421	43005425	43005429
SCG356A018	C140270V	C140270V	43005413	43005421	43005425	43005429
SCG356A022	C140271V	C140271V	43005413	43005421	43005425	43005429
SCG356A023	C140271V	C140271V	43005413	43005421	43005425	43005429

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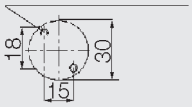
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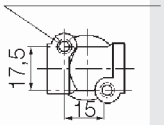
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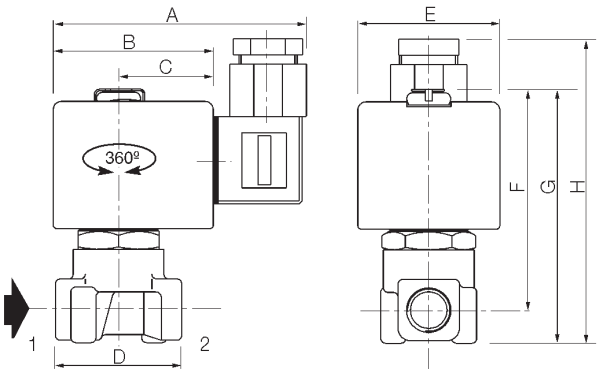


Valve	A	B	C	D	E	F	G	H	Weight (kg)
SCG262									
C013-C019-C020-C021	75	45	27	40	39	65	75	92	0,35
C022-C023-C090									
C202 - C208	80	50	30	40	45	69	79	96	0,45
C210 - D200									

ASCO numatics

Solenoid Valves

Solenoid Valves

ASCO numatics

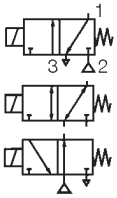
3/2 direct acting 1/4”

- N/O, N/C and Universal operation
- Brass body
- Pressure range 0 to 16 bar
- Stainless steel body option

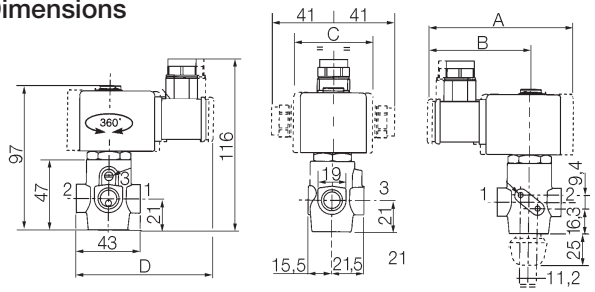
Technical specification

Differential pressure	0-16 bar
Max. allowable pressure	16 bar
Max. viscosity	40 cSt (mm²/s)
Response time	5-20 ms
Media	Air, gas, water and oil
Media temperature	-20 °C to +80 °C NBR (Nitrile)
Protection class	IP65
Standard voltages	DC (=) 24V AC (~) 24V - 115V - 230V / 50 Hz
Connector	DIN 43650/A

Construction	
Valve body	Brass
Plunger	Stainless steel
Core tube	Stainless steel
Spring	Stainless steel
Seals	NBR, FPM or FPM
Seat	Brass
Shading ring	Copper
Coil	Epoxy



Dimensions



Coil	A	B	C	D	Weight (kg)
JMX	70	55	30	77	0.43
CMXX-FT	85	64	45	86	0.60

Ordering information

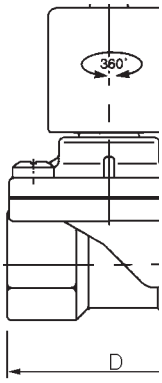
Coil	Power consumption				Ambient temperature	Coil part number			
	In rush ~	Holding ~		Hot/cold =					
	VA	VA	W	W		24 V DC	24 V AC	115 V AC	230 V AC
JMX	23	14	8.0	8 / 9.7	-20 °C to +60 °C	**43005099**	**43005090**	**43005093**	**43005096**
CMXX-FT	55	23	10.5	9 / 11.2	-20 °C to +50 °C	**400425142**	**400425101**	**400425118**	**400425117**

Part number		Connection thread	Orifice	Flow rate 2→1		Flow rate 1→3		Differential pressure bar — air/gas/water/oil			Coil
~	=	G	mm	m³/h	l/min.	m³/h	l/min.	min.	~	=	~ /=
NC-Normally closed, NBR seals											
SCE370A001MS	**SCE370A061MS**	1/4	2.0	0.11	1.8	0.11	1.8	0	16	8	JMX
SCE370A016MS	**SCE370A016MS**	1/4	2.0	0.11	1.8	0.11	1.8	0	16	16	CMXX-FT
SCE370A002MS	**SCE370A062MS**	1/4	2.7	0.20	3.3	0.20	3.3	0	10	5	JMX
SCE370A017MS	**SCE370A017MS**	1/4	2.7	0.20	3.3	0.20	3.3	0	10	10	CMXX-FT
SCE370A003MS	**SCE370A063MS**	1/4	3.8	0.30	5.0	0.30	5.0	0	5	2	JMX
SCE370A018MS	**SCE370A018MS**	1/4	3.8	0.30	5.0	0.30	5.0	0	5	5	CMXX-FT
U-Universal, NBR seals											
SCE370A011MS	**SCE370A064MS**	1/4	2.0	0.11	1.8	0.11	1.8	0	8	4	JMX
SCE370A026MS	**SCE370A026MS**	1/4	2.0	0.11	1.8	0.11	1.8	0	8	8	CMXX-FT
SCE370A012MS	**SCE370A065MS**	1/4	2.7	0.20	3.3	0.20	3.3	0	5	2	JMX
SCE370A027MS	**SCE370A027MS**	1/4	2.7	0.20	3.3	0.20	3.3	0	5	5	CMXX-FT
SCE370A013MS	**SCE370A066MS**	1/4	3.8	0.30	5.0	0.30	5.0	0	2	0.5	JMX
SCE370A028MS	**SCE370A028MS**	1/4	3.8	0.30	5.0	0.30	5.0	0	2	2	CMXX-FT
NO-Normally open, NBR seals											
SCE370A006MS	-	1/4	2.0	0.11	1.8	0.11	1.8	0	10	-	JMX
SCE370A021MS	**SCE370A021MS**	1/4	2.0	0.11	1.8	0.11	1.8	0	10	10	CMXX-FT
SCE370A007MS	-	1/4	2.7	0.20	3.3	0.20	3.3	0	7	-	JMX
SCE370A022MS	**SCE370A023MS**	1/4	2.7	0.20	3.3	0.20	3.3	0	7	7	CMXX-FT
SCE370A008MS	-	1/4	3.8	0.30	5.0	0.30	5.0	0	3	-	JMX
SCE370A023MS	**SCE370A023MS**	1/4	3.8	0.30	5.0	0.30	5.0	0	3	3	CMXX-FT

заказ: тел/факс **8056-744-97-31, 8067-618-05-10**

Technical specification Differential pressure

Max. allowable pressure	165bar
Max. viscosity	40 cSt (mm²/s)
Response time	15-120 ms
Media	Water
Media temperature	-20 °C to +85 °C NBR (Nitrile)
Protection class	IP65
Standard voltages	DC (=) 24V AC (~) 24V - 115V - 230V / 50Hz
Connector DIN 43650/A	Construction
Dimensions	
Valve body	Brass
	Stainless steel 305SS
Plunger	Stainless steel 430FSS
Spring	Stainless steel 302SS
Seat	Brass
Seals	NBR
Membrane	Reinforced glass fibre NBR
Shading ring	Copper
	Epoxy



Valve	A	B	C	D	E	F	G	H	J	K	Weight (kg)
SCG238A044	80	45	27.5	52	39	27	37	72	85	104	0.55
SCG238A046	80	45	27.5	52	39	27	37	72	85	104	0.5
SCG238A047	80	45	27.5	65	39	27	58	74	87	106	0.75
SCG238A048	80	45	27.5	67	39	32	58	76	92	111	0.7
SCG238A049	80	45	27.5	86	39	41	73	92	112	131	1.3
SCG238A050	80	45	27.5	86	39	41	73	92	112	131	1.2

заказ: тел/факс 8056-744-97-31, 8067-618-05-10

Ordering information

Coil	Power consumption				Ambient temperature
	In rush		Holding	Hot/cold	
	~		~	=	
	VA	VA	W	W	
CM6-FT	34	15.6	6.0	-	-20 °C to +75 °C
CM6-FB	30	22.5	9.0	9.5 / 15.3	-20 °C to +50 °C

Part number	Connection thread	Orifice	Flow rate		Differential pressure bar water			Coil	
	G	mm	m³/h	l/min.	min.	~	=	~	=
Brass body, NBR seals									
SCG238A044	3/8	12.5	2.1	35	0	10	10	CM6-FT	CM6-FB
SCG238A046	1/2	12.5	2.1	35	0	10	10	CM6-FT	CM6-FB
SCG238A047	1/2	19.0	4.2	70	0	10	10	CM6-FT	CM6-FB
SCG238A048	3/4	19.0	4.5	75	0	10	10	CM6-FT	CM6-FB
SCG238A049	3/4	25.0	10.0	166	0	10	10	CM6-FB	CM6-FB
SCG238A050	1	25.0	10.0	166	0	10	10	CM6-FB	CM6-FB

Repair kits and coils

	Part number					
Valve	Repair kit AC	Repair kit DC	24 V DC	24 V AC	115 V AC	230 V AC
SCG238A044	C132486	C132487	400325242	400325101	400325118	400325117
SCG238A046	C132486	C132487	400325242	400325101	400325118	400325117
SCG238A047	C132488	C132489	400325242	400325101	400325118	400325117
SCG238A048	C132488	C132489	400325242	400325101	400325118	400325117
SCG238A049	C132490	C132491	400325242	400325201	400325218	400325217
SCG238A050	C132490	C132491	400325242	400325201	400325218	400325217

заказ: тел/факс 8056-744-97-31, 8067-618-05-10

ASCO numatics

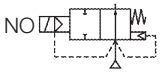
Solenoid Valves

2/2 direct acting 3/8” to 1 1/2”

- Pressure range 0 to 9 bar
- N/O operation
- Brass body

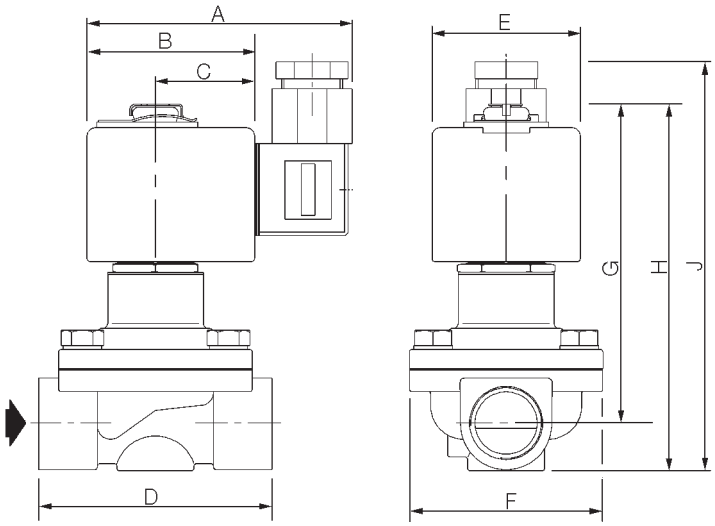
Technical specification

Differential pressure	0-9 bar
Max. allowable pressure	18 bar
Max. viscosity	65 cSt (mm²/s)
Response time	15-120 ms
Media	Air, gas, water and oil
Media temperature	-20 °C to +85 °C NBR (Nitrile)
Protection class	IP65
Standard voltages	DC (=) 24V AC (~) 24V - 115V - 230V / 50Hz
Connector	DIN 43650/A



Construction		
Valve body	Brass	AISI316SS
Core tube	Stainless steel 305SS	Stainless steel 305SS
Plunger	Stainless steel 430FSS	Stainless steel 430FSS
Spring	Stainless steel 302SS	Stainless steel 302SS
Seat	Brass	Stainless steel 316SS
Seals	NBR	NBR
Membrane	NBR	NBR
Disc holder	PA (nylon)	PA (nylon)
Shading ring	Copper	Silver
Coil	Epoxy	Epoxy
Special seal	FPM, EPDM, CR	FPM, EPDM, CR

Dimensions



Valve SCE210	A	B	C	D	E	F	G	H	J	Weight (kg)
C033-C034	80	50	30	70	45	58	98	112	127	0.9
C035	80	50	30	70	45	58	102	117	132	1
B057	86	56	33	95	50	83	155	175	175	2
B058	86	56	33	95	50	83	161	187	187	2
B059	86	56	33	111	50	99	167	194	194	2.5
B030-B038	80	50	30	70	45	61	100	118	133	1

заказ: тел/факс 8056-744-97-31, 8067-618-05-10

Ordering information

Coil	Power consumption				Ambient temperature
	In rush		Holding	Hot/cold	
	~		~	=	
	VA	VA	W	W	
CMXX-FT	55	23.0	10.5	9 / 11.2	-20 °C to +75 °C
CM12-FB	240	43.0	20.0	-	-20 °C to +75 °C

Part number	Connection thread	Orifice	Flow rate Kv		Differential pressure bar					Coil
						air/gas/water		oil		
		mm	m³/h	l/min.	min.	~	=	~	=	~/=
Rp brass body, NBR seals										
SCE210C033	3/8	16	2.6	43	0	9	9	9	5	CMXX-FT
SCE210C034	1/2	16	3.4	57	0	9	9	9	5	CMXX-FT
SCE210C035	3/4	19	4.7	79	0	9	9	9	5	CMXX-FT
SCE210B057 (1)	1	25	11.1	185	0	9	-	9	-	CMXX-FB
SCE210B058 (1)	1 1/4	28	12.8	213	0	9	-	9	-	CMXX-FB
SCE210B059 (1)	1 1/2	32	19.3	322	0	9	-	9	-	CMXX-FB
NPT Rostfritt body, NBR seals										
SCB210B030	1/2	16	2.6	43	0	9	9	7	5	CMXX-FT
SCB210B038	3/4	16	2.6	43	0	9	9	5	5	CMXX-FT

(1) Mount horizontal with coil upright.

Repair kits and coils

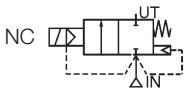
	Part number					
Valve	Repair kit AC	Repair kit DC	24 V DC	24 V AC	115 V AC	230 V AC
SCE210C033	C302334	C302449	400425142	400425101	400425118	400425117
SCE210C034	C302334	C302449	400425142	400425101	400425118	400425117
SCE210C035	C302335	C302450	400425142	400425101	400425118	400425117
SCE210B057	C302337	-	-	400525201	400525218	400525217
SCE210B058	C302339	-	-	400525201	400525218	400525217
SCE210B059	C302340	-	-	400525201	400525218	400525217
SCE210B030	C302347	C302447	400425142	400425101	400425118	400425117
SCE210B038	C302347	C302447	400425142	400425101	400425118	400425117

заказ: тел/факс 8056-744-97-31, 8067-618-05-10

Solenoid Valves

2/2 pilot operated 3/8” to 3/4”

- Brass body
- Pressure range 0.35 to 20 bar
- N/C operation



Technical specification

Differential pressure	0.35-20 bar
Max. allowable pressure	20 bar
Max. viscosity	65 cSt (mm²/s)
Response time	15-60 ms
Media	Air, gas, water and oil
Media temperature	-20 °C to +85 °C NBR (Nitrile)
Protection class	IP65
Standard voltages	DC (=) 24V AC (~) 24V - 115V - 230V / 50Hz
Connector	DIN 43650/A CM25 DIN43650/A

Construction	
Valve body	Brass
Core tube	Stainless steel 305SS
Plunger	Stainless steel 320FSS
Spring	Stainless steel 302SS
Seat	Brass
Seals	NBR
Membrane	Reinforced glass fibre NBR
Shading ring	Copper
Coil	Epoxy
Special seal	FPM, EPDM, CR

Dimensions

Fig. 1

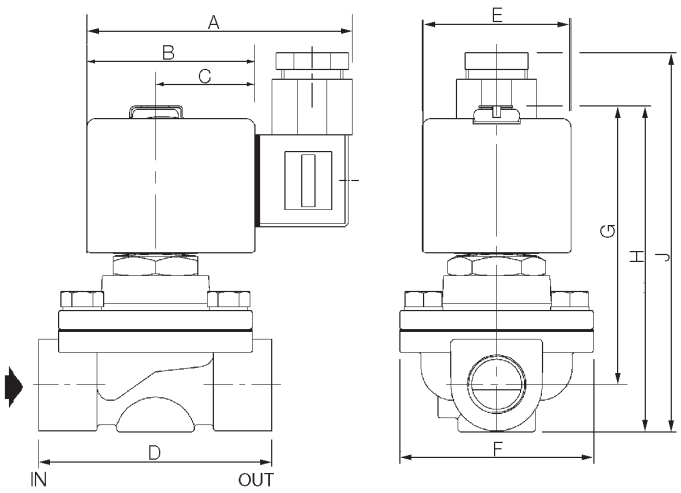
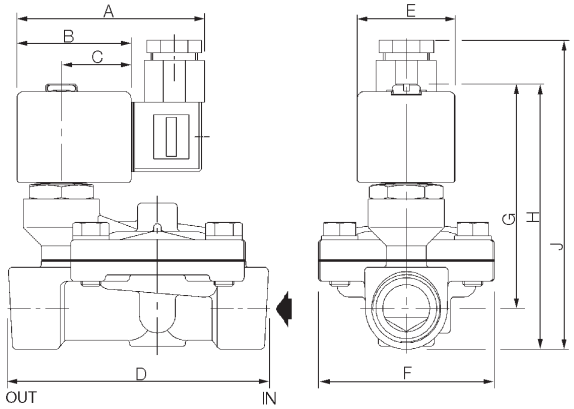


Fig. 2



Ordering information

Coil	Power consumption				Ambient temperature
	In rush	Holding		Hot/cold	
	~		~	=	
	VA	VA	W	W	
CM6-FT	34	15.6	6.0	-	-20 °C to +75 °C
CMXX-FT	-	-	-	9 / 11.2	-20 °C to +75 °C
CMXX-FB	78	35.0	16.7	-	-20 °C to +50 °C

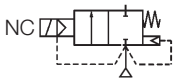
Part number	Connection thread	Orifice	Flow rate		Differential pressure bar					Coil	
						air/gas		water/oil			
		mm	m³/h	l/min.	min.	~	=	~	=	~	=
SCE210D001	3/8	16	2.6	43	0.35	14	9	10	7	CM6-FT	CMXX-FT
SCE210C006	3/8	16	2.6	43	0.35	20	-	20	-	CMXX-FB	-
SCE210D002	1/2	16	3.4	57	0.35	14	9	10	7	CM6-FT	CMXX-FT
SCE210C007	1/2	16	3.4	57	0.35	20	-	20	-	CMXX-FB	-
SCE210D009	3/4	19	4.3	72	0.35	9	7	9	6	CM6-FT	CMXX-FT
SCE210D003	3/4	19	5.6	93	0.35	17	9	10	9	CM6-FT	CMXX-FT

Repair kits and coils

	Part number					
Valve	Repair kit AC	Repair kit DC	24 V DC	24 V AC	115 V AC	230 V AC
SCE210D001	C302273	C302373	400425142	400325101	400325118	400325117
SCE210C006	C302274	-	-	400425201	400425218	400425217
SCE210D002	C302273	C302373	400425142	400325101	400325118	400325117
SCE210C007	C302274	-	-	400425201	400425218	400425217
SCE210D009	C302277	C302376	400425142	400325101	400325118	400325117
SCE210D003	C302279	C302378	400425142	400325101	400325118	400325117

2/2 pilot operated 3/8” to 2”

- Pressure range 0.3 to 16 bar
- N/C operation
- Brass body



Technical specification

Differential pressure	0.3-16 bar
Max. allowable pressure	16 bar
Max. viscosity	40 cSt (mm²/s)
Response time	25-1500 ms
Media	Air, gas, water and oil
Media temperature	-10 °C to +85 °C NBR (Nitrile)
Protection class	IP65
Standard voltages	DC (=) 24V AC (~) 24V - 115V - 230V / 50Hz
Connector	CM22 DIN 43650 Industrial CM25 DIN43650/A

Construction	
Valve body	Brass
Core tube	Stainless steel 305SS
Plunger	Stainless steel 405SS
Spring	Stainless steel 302SS
Seat	Brass
Seals	NBR
Membrane	NBR (standard)
Shading ring	Copper
Coil	Epoxy
Special seal	FPM, EPDM

Dimensions

Fig. 1

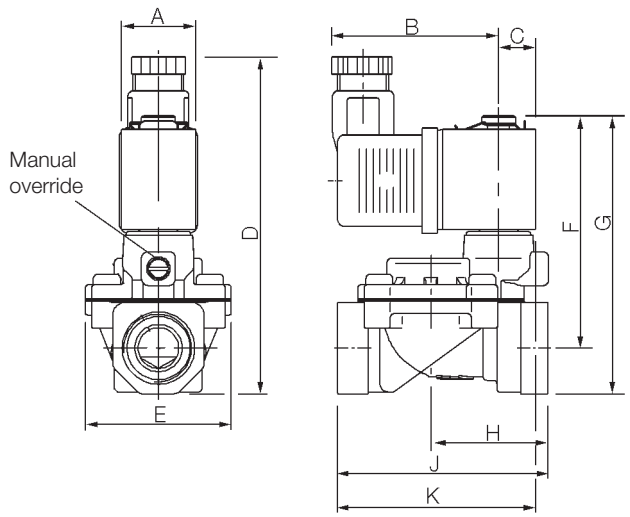
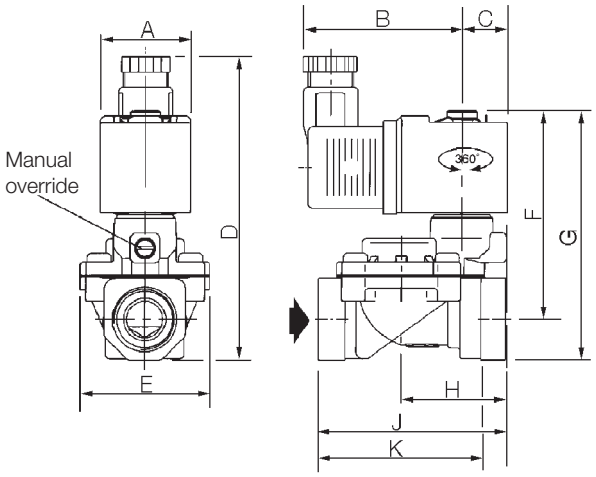


Fig. 2



Valve	(G)	A	B	C	D	E	F	G	H	J	K	Weight (kg)	Drawing	Coil
SCE238A001	3/8	22	49	11	95	43	68.5	82	34.5	62	58.5	0.4	fig.1	CM22
SCE238A002	1/2	22	49	11	95	43	68.5	82	34.5	62	58.5	0.4	fig.1	CM22
SCE238B003	1/2	22	49	11	97	57	71	84.5	45.5	81.5	74.5	0.5	fig.1	CM22
SCE238A004	3/4	22	49	11	108	68	79.5	95.5	53	95	86.5	0.8	fig.1	CM22
SCE238A005	1	22	49	11	118	87	84.5	105	58	105.5	94	1	fig.1	CM22
SCE238A006	3/8	30	57	15	96.5	43	68.5	82	34.5	62	62.5	0.5	fig.2	CM25
SCE238A007	1/2	30	57	15	96.5	43	68.5	82	34.5	62	62.5	0.5	fig.2	CM25
SCE238B008	1/2	30	57	15	99	57	71	84.5	45.5	81.5	78.5	0.6	fig.2	CM25
SCE238A009	3/4	30	57	15	110	68	79.5	95.5	53	95	90.5	0.9	fig.2	CM25
SCE238A010	1	30	57	15	119.5	87	84.5	105	58	105.5	98	1.1	fig.2	CM25
SCG238C016	1 1/4	32	57	16	150	81	109	135	63	113	106	1.7	fig.2	ANX
SCG238C017	1 1/2	32	57	16	157	110	112	142	80	140	129	2.6	fig.2	ANX
SCG238C018	2	32	57	16	168	110	117	153	157	145	129	2.9	fig.2	ANX

заказ: тел/факс 8056-744-97-31, 8067-618-05-10

Ordering information

Coil	Power consumption				Ambient temperature
	In rush	Holding		Hot/cold	
	~	~		=	
	VA	VA	W	W	
CM22	12	6	4	5 / 6.9	-10 °C to +60 °C
CM25	15	7	5	5 / 6.9	-10 °C to +60 °C
ANX	20	10	7.5	7.5 / 9	-10 °C to +60 °C

Part number	Connection thread	Orifice	Flow rate		Differential pressure bar			Coil
						air/gas/water/oil		
		mm	m³/h	l/min.	min.	~	=	~/=
SCE238A001	3/8	12	2.4	40	0.3	10	10	CM22
SCE238A006	3/8	12	2.4	40	0.3	16	16	CM25
SCE238A002	1/2	12	2.4	40	0.3	10	10	CM22
SCE238A007	1/2	12	2.4	40	0.3	16	16	CM25
SCE238B003	1/2	15	4.2	70	0.3	10	10	CM22
SCE238B008	1/2	15	4.2	70	0.3	16	16	CM25
SCE238A004	3/4	20	6.6	110	0.3	10	10	CM22
SCE238A009	3/4	20	6.6	110	0.3	16	16	CM25
SCE238A005	1	25	9.9	165	0.3	10	10	CM22
SCE238A010	1	25	9.9	165	0.3	16	16	CM25
SCG238C016	1 1/4	30	15.0	250	0.5	10	10	ANX
SCG238C017	1 1/2	45	27.0	450	0.5	10	10	ANX
SCG238C018	2	45	34.0	566	0.5	10	10	ANX

Repair kits and coils

	Part number					
Valve	Repair kit AC	Repair kit DC	24 V DC	24 V AC	115 V AC	230 V AC
SCE238A001	C131600	C131600	43004158	43004152	43004154	43004155
SCE238A006	C131600	C131600	43004647	43004646	43004648	43004649
SCE238A002	C131600	C131600	43004158	43004152	43004154	43004155
SCE238A007	C131600	C131600	43004647	43004646	43004648	43004649
SCE238B003	C131618	C131618	43004158	43004152	43004154	43004155
SCE238B008	C131618	C131618	43004647	43004646	43004648	43004649
SCE238A004	C131606	C131606	43004158	43004152	43004154	43004155
SCE238A009	C131606	C131606	43004647	43004646	43004648	43004649
SCE238A005	C131609	C131609	43004158	43004152	43004154	43004155
SCE238A010	C131609	C131609	43004647	43004646	43004648	43004649
SCG238C016	97701886	97701886	43005272	43005273	43005274	43005275
SCG238C017	97701879	97701879	43005272	43005273	43005274	43005275
SCG238C018	97701879	97701879	43005272	43005273	43005274	43005275

заказ: тел/факс 8056-744-97-31, 8067-618-05-10

Solenoid Valves

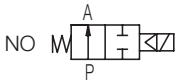
2/2 pilot operated 3/8” to 2”

- Brass body
- Pressure range 0.35 to 12 bar
- N/O operation

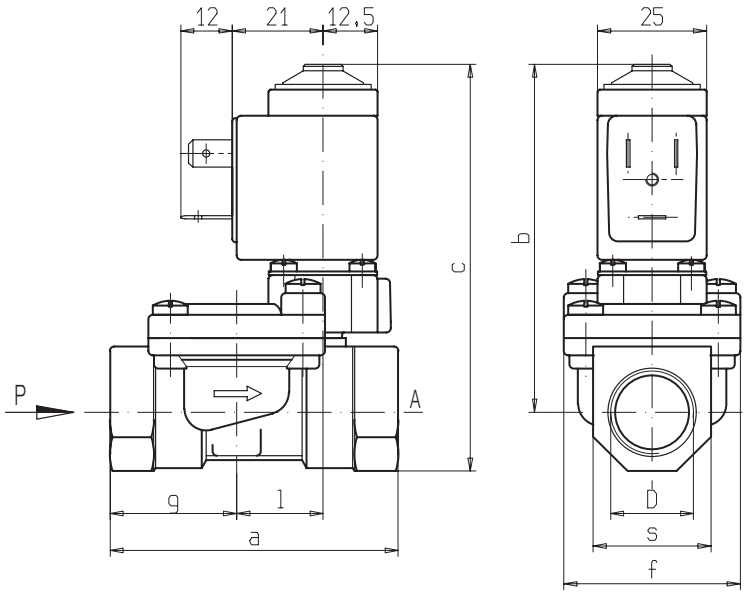
Technical specification

Differential pressure	0.35-12 bar
Max. viscosity	37 cSt (mm²/s)
Response time	300-1500 ms
Media	Air, gas, water and oil
Media temperature	-10 °C to +90 °C NBR (Nitrile)
Protection class	IP65
Standard voltages	DC (=) 24V AC (~) 24V - 115V - 230V
Connector	Z610A DIN 43650/A ZA30A DIN43650 Industrial

Construction	
Valve body	Brass
Core tube	Stainless steel
Internal parts	Stainless steel
Seat	Brass
Shading ring	Copper
Seals	NBR
Membrane	NBR
Coil	Epoxy
Special seal	FPM



Dimensions



Valve	a	b	c	f	g	l	s	Weight (kg)
3/8	60	79	89	40	25.5	20	22	0.375
1/2	66	80	93.5	40	29	20	27	0.445
3/4	79	86	102.2	50	35.5	24.5	33	0.595
1	105	100	121	71	46	28	42	1.165
1 1/4	113	125	151	81	50	40	52	1.79
1 1/2	140	128	158	110	60	53	60	2.27
2	157	133	169	110	72	53	72	3.13

заказ: тел/факс **8056-744-97-31, 8067-618-05-10**

Ordering information

Coil	Power consumption			Ambient temperature	Coil part number		
	In rush	Holding					
	~	~	=				
	VA	VA	W		24 V AC	115 V AC	230 V AC
Z610A	16	10	6	-10 °C to +60 °C	**Z610A/24VAC**	**ZA610A/115VAC**	**ZA610A/230VAC**
ZA30A	23	14	9	-10 °C to +50 °C	**ZA30A/24VAC**	**ZA30A/115VAC**	**ZA30A/230VAC**

Part number	Connection thread	Orifice	Flow rate	Differential pressure bar air/gas/water/oil		Coil
	G	mm	m³/h	min.	~/=	~ /=
L280B6-3/8	3/8	11.5	1.7	0.35	12	Z610A
L280B6-1/2	1/2	11.5	2.1	0.35	12	Z610A
L280B6-3/4	3/4	18	5.0	0.35	12	Z610A
L280B6-1	1	24	11.0	0.35	12	Z610A
L280B48-11/4	1 1/4	30	15.0	0.5	10	ZA30A
L280B48-11/2	1 1/2	45	27.0	0.5	10	ZA30A
L280B48-2	2	45	34.0	0.5	10	ZA30A

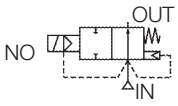
заказ: тел/факс 8056-744-97-31, 8067-618-05-10

2/2 pilot operated 3/4” to 2”

- Brass body
- Pressure range 0.35 to 17 bar
- N/O operation

Technical specification

Differential pressure	0.35-17 bar
Max. allowable pressure	18 bar
Max. viscosity	65 cSt (mm²/s)
Response time	15-120 ms
Media	Water, air, gas, oil
Media temperature	-20 °C to +85 °C NBR (Nitrile)
Protection class	IP65
Standard voltages	DC (=) 24V AC (~) 24V - 115V - 230V / 50Hz



Construction	
Valve body	Brass
Core tube	Stainless steel 305SS
Plunger	Stainless steel 430FSS
Spring	Stainless steel 302SS
Seat	Brass
Seals	NBR
Membrane	Reinforced glass fibre NBR
Disc	Stainless steel
Disc holder	PA (nylon)
Shading ring	Copper
Coil	Epoxy
Special seal	FPM, EPDM, CR

Dimensions

Fig. 1

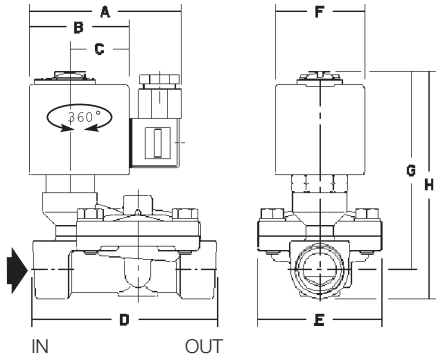


Fig. 2

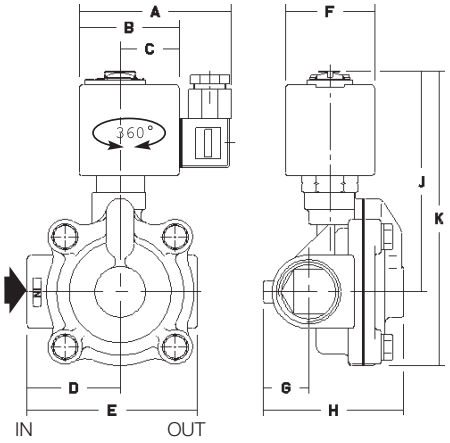
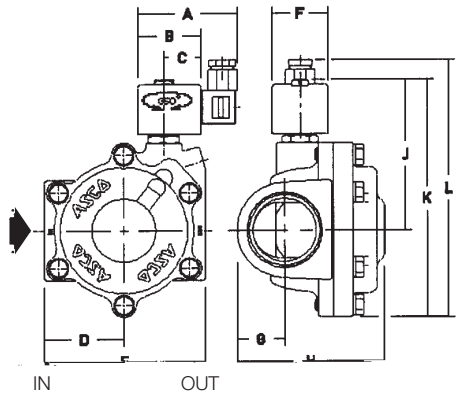


Fig. 3



Valve SCE210	A	B	C	D	E	F	G	H	J	K	L	Weight (kg)	Drawing
C013	86	56	33	96	70	50	112	138	-	-	-	1.6	Fig. 1
D014	86	56	33	52	95	50	25	75	125	165	-	2	Fig. 2
D018	86	56	33	52	95	50	30	85	125	165	-	2	Fig. 2
D032	86	56	33	56	111	50	33	95	128	178	-	2.5	Fig. 2
.103	86	56	33	65	129	50	38	119	138	208	208	4.6	Fig. 3

Ordering information

Coil	Power consumption				Ambient temperature
	In rush	Holding		Hot/cold	
	~	~		=	
	VA	VA	W	W	
CM12-FT	110	23.6	15.4	16.8	-20 °C to +85 °C

Part number	Connection thread	Orifice	Flow rate		Differential pressure bar air/gas			Coil
	Rp	mm	m³/h	l/min.	min.	~	=	~ /=
SCE210C013	3/4	19	5.7	95	0.35	17	14	CM12-FT
SCE210D014	1	25	11.1	185	0.35	9	9	CM12-FT
SCE210D018	1 1/4	28	12.8	213	0.35	9	9	CM12-FT
SCE210D032	1 1/2	32	19.3	321	0.35	9	9	CM12-FT
SCE210.103	2	44	37.0	617	0.35	9	9	CM12-FT

Repair kits and coils

	Part number					
Valve	Repair kit AC	Repair kit DC	24 V DC	24 V AC	115 V AC	230 V AC
SCE210C013	C302336	C302451	400525142	400525101	400525107	400525117
SCE210D014	C302338	C302452	400525142	400525101	400525107	400525117
SCE210D018	C302338	C302452	400525142	400525101	400525107	400525117
SCE210D032	C302341	C302453	400525142	400525101	400525107	400525117
SCE210.103	C304361	C304361	400525142	400525101	400525107	400525117

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Replacement coils

Ordering information

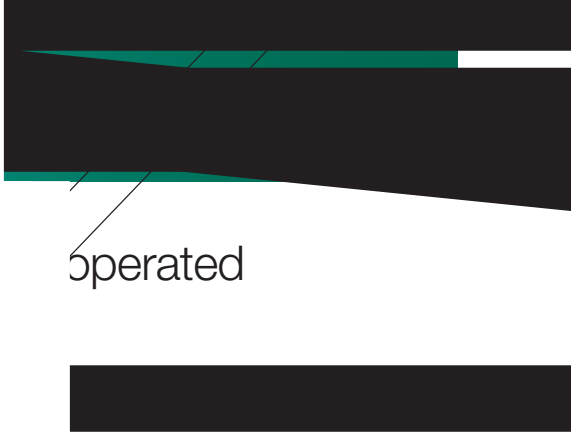
product code	coil type
10700207	CM25-5W
10700208	CM25-5W
18900001	CM22-2,5W
18900002	CM22-2,5W
18900032	CM22-2,5W
18900073	C22-2,5W (M12)
19000006	CM25-3W
19000014	CM25-3W
19000017	CM25-3W
19000018	CM25-3W
19000044	C25-3W (M12)
19000046	C25-3W (M12)
19200002	CM30-4W
19200003	CM30-4W
19200008	CM30-4W
19200009	CM30-4W
19200023	CM30-4W
19200024	CM30-4W
19200029	CM30-4W
19200030	CM30-4W
SCG202A002V	CMXX-F
SCG202A003V	CMXX-F
SCG202A052V	CMXX-F
SCG202A053V	CMXX-F
SCE210B057V	CM12-FB
SCE210B154	CM12-FB/-FT
SCE210B155	CM12-FB/-FT
SCE210B156	CM12-FB/-FT
SCE210C033	CMXX-FT
SCE210C034	CMXX-FT
SCE210C035	CMXX-FT
SCE210C093	CMXX-FT
SCE210C094(BW)	CMXX-FT
SCE210D095(BW)	CMXX-FT
SCE220A019	CMXX-HT
SCE220A021	CMXX-HT
SCE220A023	CMXX-HT
SCE220-025	CMXX-HT/CM12-FT
SCE222D001	CMXX-HB
SCE222D002	CMXX-HB
SCE222E003	CMXX-HB
SCE222B004	CMXX-HT

product code	coil type
SCE222B093	CMXX-FT/CM12-FT
SCE222B094	CMXX-FT/CM12-FT
SCE222B095	CMXX-FT/CM12-FT
SCE222B154	CM12-FT
SCB223A125	CMXX-FB/-FF
SCB223A127	CMXX-FB/-FF
SCB223A103	CMXX-FB/-FF
SCB223A105	CMXX-FB/-FF
SCE238A001(MO)	CM22-4W
SCE238A002	CM22-4W
SCE238A004	CM22-4W
SCE238A005(MO)	CM22-4W
SCG238A044BW	CM6-FT/-FB
SCG238A046BW	CM6-FT/-FB
SCG238A048BW	CM6-FT/-FB
SCE238B003(MO)	CM22-4W
SCG238C016(MO)	ANX-7,5W
SCG238C017(MO)	ANX-7,5W
SCG238C018(MO)	ANX-7,5W
SCG240A0100	BMX-6W
SCG240A0101	BMX-6W
SCG240A0102	AMX-6W
SCG240A0103	AMX-6W
SCG256A002VMS	C22A-4W
SCG256A004VMS	C22A-4W
SCG256A014VMS	C22A-4W
SCG256A016VMS	C22A-4W
SCE262C022BW	CM6-FT
SCG262A262	CMXX-FT
SCG262A264	CMXX-FT
SCG262C022	CM6-FT
SCG262C090	CM6-FT
SCG262C208	CMXX-FT
SCG262G020	CM6-FT
H262-602BW	CM6-FT
SCE272A002MS	JMX
SCE272A003(MS)	JMX
SCE272A005(MS)	JMX
SCE272A018(MS)	CMXX-FT
SCE272A020MS	CMXX-FT
SCE272A022	CMXX-FT
SCB320A172	CMXX-FT

product code	coil type
SCB320A174	CMXX-FB/-FT
SCB320A176	CMXX-FB/-FT
SCB320A184	CMXX-FT
SCB320A186	CMXX-FT
SCB320A194	CMXX-FT
SCB320A196	CMXX-FT
SCG327A001	CM12-FT
SCG356A001VMS	C22A-4W
SCG356A002VMS	C22A-4W
SCG356A004VMS	C22A-4W
SCG356A006VMS	C22A-4W
SCG356A014VMS	C22A-4W
SCG356A053VMS	C22A-4W
SCG356A058VMS	C22A-4W
SCE370A017(MS)	CMXX-FT
SCE374A007MS	JMX
SCE374A017(MS)	JMX
SCE374A098MS	CMXX-FT
SCE374A099MS	CMXX-FT
SCG551A001MS	CM22-2,5W
SCG551A002MS	CM22-2,5W
SCG551A005MS	CM22-2,5W
SCG551A006MS	CM22-2,5W
SCG551A017MS	CM22-2,5W
SCG551A018MS	CM22-2,5W
SCG551A067MS	CM22-2,5W
SCG551A419	CMXX-FT
SCG551A420	CMXX-FT
SCG552A005MS	CM25-5W
SCG552A006MS	CM25-5W
SCG552A017MS	CM25-5W
SCG552A018MS	CM25-5W
SCG553A005MS	CM25-5W
SCG553A006MS	CM25-5W
SCG553A017MS	CM25-5W
SCG553A018MS	CM25-5W

series	coil type
C12/C23/C34 BA/BB	N30
L12/L23/L34 BA/BB	N22

Coil type	code / coil					
	Direct current (DC)		Alternating current (AC) (~) (50Hz)			
	24V =	48V =	24V ~	48V ~	115V ~	230V ~
C25-3W (M12)	43005525	-	-	-	-	-
CM30-4W	43004541	43004542	43004181	43004182	43004183	43004184
CMXX-FB	400425242	400425244	400425201	400425205	400425218	400425217
CMXX-FF	400425342	400425344	400425301	400425305	400425318	400425317
CMXX-FT	400425142	400425144	400425101	400425105	400425118	400425117
CMXX-HB	400426242	400426244	400426201	400426205	400426218	400426217
CMXX-HT	400426142	400426144	400426101	400426105	400426118	400426117
JMX	43005099	43005100	43005090	43005091	43005093	43005096
N30	10 bar 2,7W 225-354	16 bar 6,8W 225-355	-	10 bar 5,2/3,9VA 228-772	16 bar 10,8/7,6VA 228-775	-	10 bar 4,8/3,6VA 228-773	16 bar 10,5/7,6VA 228-776	10 bar 4,9/3,7VA 228-774	16 bar 10,5/7,6VA 228-777
N22	3,35 W 226-749		-	10/7 VA 237-568		-	10/7 VA 237-569		10/7 VA 237-570	
AMX-6W	-	-	43005153	-	43005155	43005157
ANX-7,5W	43005271	43005272	43005273	-	43005274	43005275
BMX-6W	-	-	43005168	-	43005169	43005171
CM6-FB	400325242	400325244	400325201	400325205	400325218	400325217
CM6-FT	400325142	400325144	400325101	400325105	400325118	400325117
CM12-FB/-FT	400625242	400625244	400525101	400525105	400525118	400525117
CM22-2,5W (series 189)	43004166	43004167	43004416	43004417	43004419	43004422
CM22-2,5W (series 238-551)	43004869	43004873	43004878	43004879	43004884	43004886
CM22-4W	43004158	43004159	43004152	43004153	43004154	43004155
C22A-4W	43005413	43005415	43005421	43005423	43005425	43005429
C22-2,5W (M12)	43005523	-	-	-	-	-
CM25-3W	43004473	43004471	43004469	43004473	43004471	43004472
CM25-5W	43004647	43004648	43004646	43004647	43004648	43004649


operated

Solenoid Valves

2/2 pressure operated 1/2” to 1”

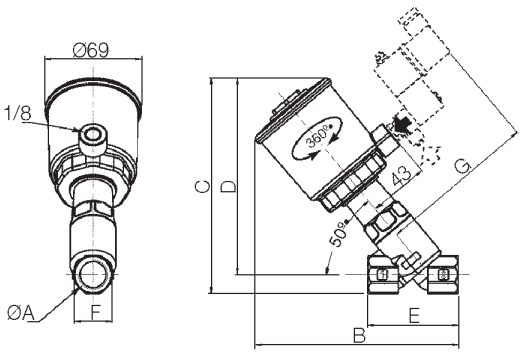
- Pressure range 0 to 16 bar
- Bronze and stainless steel bodies
- Compact size
- N/C, N/O operation

Technical specification

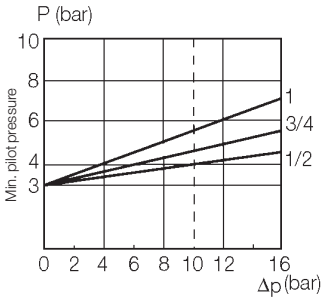
Differential pressure	0-16 bar
Max. allowable pressure	16 bar
Ambient temperature	-10 °C to +60 °C
Max. viscosity	600 cSt (mm²/s)
Response time	0.15 to 0.25 sec.
Pilot media	Filtered air or water (40 cSt)
Max. pilot pressure	10 bar
Min. pilot pressure	See diagram or table
Pilot fluid temperature	-10 °C to +60 °C
Media	Neutral and aggressive media. Steam and hot water
Media temperature	-10 °C to +180 °C

Construction	**Bronze**	**Stainless steel**
Valve body	Bronze	AISI316L
Bonnet	Brass	Stainless steel AISI303
Valve body seal	PTFE (teflon)	PTFE (teflon)
Stem	Stainless steel AISI316L	Stainless steel AISI431
Disc	Brass	Stainless steel AISI303
Disc seal	PTFE (teflon)	PFTE (teflon)
Operator	Glass fibre filled polyamide	Glass fibre filled polyamide
Pilot port	Brass	Brass

Dimensions



NO-Normally open-inlet under disc



ØA	B	C	D	E	F	G	Weight (kg)
1/2	142	154.5	141	65	27	146	0.9
3/4	150.5	159	143	75	32	146	1
1	155	165	145	90	41	146	1.4

Ordering information

Part number		Connection thread	Orifice	Flow rate		Pilot pressure bar		Differential pressure bar			Operator
										steam	
Bronze body	Stainless steel body		mm	m³/h	l/min.	min.	max.	min.	air/gas/water/oil	180 °C	mm
NC-Normally closed-inlet under disc											
E290A384	**E290A393**	1/2	15	4.9	82	4	10	0	16	10	50
E290A385	**E290A394**	3/4	20	9.4	157	4	10	0	10	10	50
E290A386	**E290A395**	1	25	12.8	213	4	10	0	6	6	50
NO-Normally open-inlet under disc											
E290A387	**E290A396**	1/2	15	4.9	82	*	10	0	16	10	50
E290A388	**E290A397**	3/4	20	9.4	157	*	10	0	16	10	50
E290A389	**E290A398**	1	25	12.8	213	*	10	0	16	10	50

* min pilot pressure varies with differential pressure.

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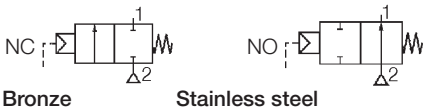
2/2 pressure operated 3/4” to 2”

- N/C, N/O operation
- High flow rate
- Bronze and stainless steel bodies
- Pressure range 0 to 16 bar

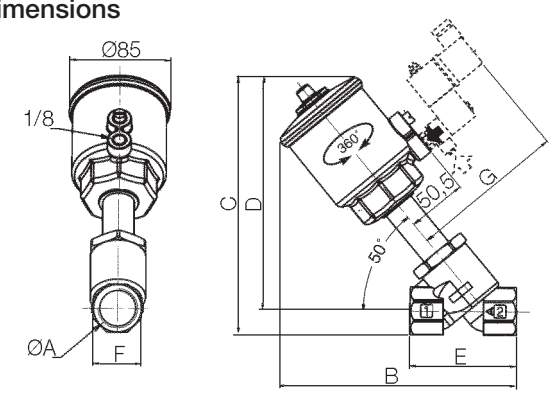
Technical specification

Differential pressure	0-16 bar
Max allowable pressure	16 bar
Ambient temperature	-10 °C to +60 °C
Max. viscosity	600 cSt (mm²/s)
Response time	0,20 to 0,50 sec.
Pilot media	Filtered air or water (40 cSt)
Max. pilot pressure	10 bar
Min. pilot pressure	See diagram or table
Pilot fluid temperature	-10 °C to +60 °C
Media	Neutral and aggressive media. Steam and hot water
Media temperature	-10 °C to +180 °C



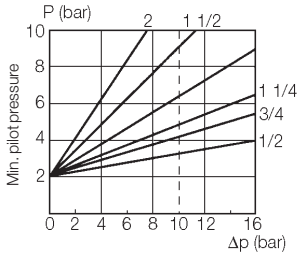
Construction	**Bronze**	**Stainless steel**
Valve body	Bronze	AISI316L
Bonnet	Brass	Stainless steel AISI303
Valve body seal	PTFE (teflon)	PTFE (teflon)
Stem	Stainless steel AISI431	Stainless steel AISI431
Disc	Brass	Stainless steel AISI303
Disc seal	PTFE	PFTE
Operator	Glass fibre filled polyamide	Glass fibre filled polyamide
Pilot port	Brass	Brass

Dimensions



Ø A	B	C	D	E	F	G	Weight (kg)
3/4	175	186	170	75	32	153	1.3
1	183	197	177	90	41	153	1.7
1 1/4	217	229	204	110	50	153	2.1
1 1/2	224	245	215	120	60	153	2.9
2	249	259	224	150	70	153	3.7

NO-Normally open-inlet under disc



Ordering information

Part number		Connection thread	Orifice	Flow rate		Pilot pressure bar		Differential pressure bar air/gas/water/oil		Differential pressure bar steam	Operator
Bronze body	Stainless steel body		mm	m³/h	l/min.	min.	max.	min.	max.	180 °C	mm
NC-Normally closed-inlet under disc											
E290B005	E290B048	3/4	20	9.4	157	4	10	0	16	10	63
E290B010	E290B053	1	25	16.5	275	4	10	0	10	10	63
E290A016	E290A059	1 1/4	32	27.0	450	4	10	0	6	6	63
E290A020	E290A063	1 1/2	40	45.0	750	4	10	0	4	4	63
E290A024	E290A067	2	50	59.0	983	4	10	0	2	2	63
NO-Normally open-inlet under disc											
E290B027	E290B070	3/4	20	9.4	157	*	10	0	16	10	63
E290B028	E290B071	1	25	16.5	275	*	10	0	16	10	63
E290A030	E290A073	1 1/4	32	27.0	450	*	10	0	16	10	63
E290A032	E290A075	1 1/2	40	45.0	750	*	10	0	11	10	63
E290A034	E290A077	2	50	59.0	983	*	10	0	7	7	63

* min pilot pressure varies with differential pressure.

Solenoid Valves

ASCO numatics

2/2 pressure operated 1” to 2 1/2”

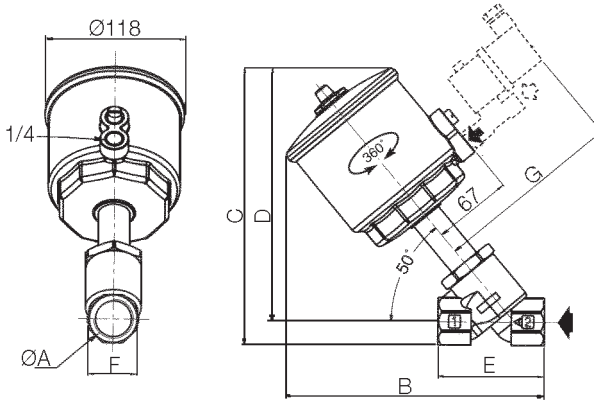
- N/C, N/O operation
- Stainless steel and bronze bodies
- Pressure range 0 to 16 bar

Technical specification

Differential pressure	0-16 bar
Max allowable pressure	16 bar
Ambient temperature	-10 °C to +60 °C
Max. viscosity	600 cSt (mm²/s)
Response time	0.20 to 1.10 sec.
Pilot media	Filtered air or water (40 cSt)
Max. pilot pressure	10 bar
Min. pilot pressure	See diagram or table
Pilot fluid temperature	-10 °C to +60 °C
Media	Neutral and aggressive media. Steam and hot water
Media temperature	-10 °C to +180 °C

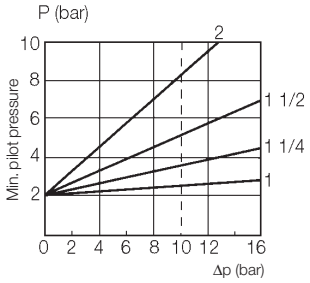
Construction	**Bronze**	**Stainless steel**
Valve body	Bronze	AISI316L
Bonnet	Brass	Stainless steel AISI303
Valve body seal	PTFE (teflon)	PTFE (teflon)
Stem	Stainless steel AISI431	Stainless steel AISI431
Disc	Brass	Stainless steel AISI303
Disc seal	PTFE	PFTE
Operator	Glass fibre filled polyamide	Glass fibre filled polyamide
Pilot port	Brass	Brass

Dimensions



ØA	B	C	D	E	F	G	Weight (kg)
1	204	217	197	90	41	169	2.3
1 1/4	236	246	221	110	50	169	2.7
1 1/2	243	262	232	120	60	169	3.5
2	267	276	241	150	70	169	4.3
2 1/2	299	300	257	190	86	169	6.3

NO-Normally open-inlet under disc



Ordering information

Part number		Connection thread	Orifice	Flow rate		Pilot pressure bar		Differential pressure bar air/gas/water/oil		Operator steam	
Bronze body	Stainless steel body		mm	m³/h	l/min.	min.	max.	min.	max.	180 °C	mm
NC-Normally closed-inlet under disc											
E290B011	E290B054	1	25	16.5	275	4	10	0	16	10	90
E290A017	E290A060	1 1/4	32	27.0	450	4	10	0	12	10	90
E290A021	E290A064	1 1/2	40	45.0	750	4	10	0	8	8	90
E290A025	E290A068	2	50	59.0	983	4	10	0	6	6	90
E290A487	E290A500	2 1/2	65	94.0	1567	4	10	0	2	2	90
NO-Normally open-inlet under disc											
E290B029	E290B072	1	25	16.5	275	*	10	0	16	10	90
E290A031	E290A074	1 1/4	32	27.0	450	*	10	0	16	10	90
E290A033	E290A076	1 1/2	40	45.0	750	*	10	0	16	10	90
E290A035	E290A078	2	50	59.0	983	*	10	0	13	10	90
E290A491	E290A504	2 1/2	65	94.0	1567	*	10	0	7	7	90

* min pilot pressure varies with differential pressure.

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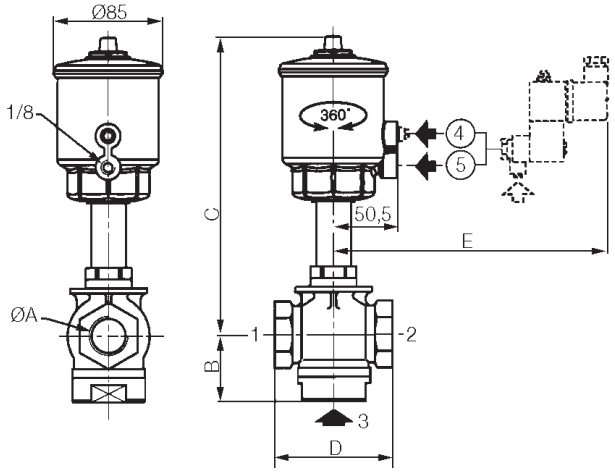
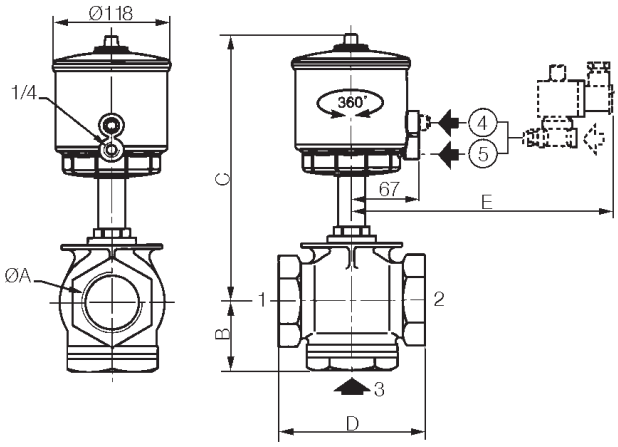
Weight (kg) 1/2





Ø63 mmoper

Ordering information

Part number	Connection thread	Orifice	Flow rate 3→2		Flow rate 2→1		Pilot pressure bar		Differential pressure bar air/gas/water/oil	Differential pressure bar steam	Operator
	G	mm	m³/h	l/min.	m³/h	l/min.	min.	max.	max.	≤180 °C	mm
NC, Normally closed											
E390B002	1/2	15	6.0	100	4.5	75	3	10	0	16	10	63
E390B005	3/4	20	9.6	160	7.2	120	5	10	0	16	10	63
E390B010	1	25	16.2	270	12.0	200	5	10	0	10	10	63
E390B011	1	25	16.2	270	120	200	5	10	0	16	10	90
E390A016	1 1/4	32	24.0	400	18.0	300	5	10	0	6	6	63
E390A017	1 1/4	32	24.0	400	18.0	300	5	10	0	12	10	90
E390A020	1 1/2	40	42.9	715	31.8	530	5	10	0	4	4	63
E390A021	1 1/2	40	42.9	715	31.8	530	5	10	0	8	8	90
E390A024	2	50	52.8	880	39.0	650	5	10	0	2	2	63
E390A025	2	50	52.8	880	39.0	650	5	10	0	6	6	90
NO, Normally open											
E390B026	1/2	15	6.0	100	4.5	75	(1)	10	0	16	10	63
E390B027	3/4	20	9.6	160	7.2	120	(1)	10	0	16	10	63
E390B028	1	25	16.2	270	12.0	200	(1)	10	0	16	10	63
E390B029	1	25	16.2	270	12.0	200	(1)	10	0	16	10	90
E390A030	1 1/4	32	24.0	400	18.0	300	(1)	10	0	16	10	63
E390A031	1 1/4	32	24.0	400	18.0	300	(1)	10	0	16	10	90
E390A032	1 1/2	40	42.9	715	31.8	530	(1)	10	0	11	10	63
E390A033	1 1/2	40	42.9	715	31.8	530	(1)	10	0	16	10	90
E390A034	2	50	52.8	880	39.0	650	(1)	10	0	7	7	63
E390A035	2	40	52.8	880	39.0	650	(1)	10	0	13	10	90

(1) min pilot pressure varies with differential pressure. (see charts on opposite page.)

Pressure operated valve accessories

Pilot valve for type 290/390

Part number	Valve type 3/2	Orifice	Operating pressure	Operator Ø series 290
		mm	bar	mm
18990032 (+ coil)	1/8	1.2	0-10	32, 50 and 63
SCG356A002VMS (+ coil)	1/8	1.6	0-10	32, 50 and 63
SCE374A002MS (+ coil)	1/4	2.7	0-10	90

Part number	Connector (for pilot value mounting)	
2000 1/8	SCG356A002VMS	for 32, 50 and 63 mm operator
2000 1/4	SCE374A002MS	for 90 mm operator

Compact signalling unit (for 290 valves)

Technical specification

	Reed switch	Magneto-resistive detector
Range	10-60 V AC/DC	10-30 V DC
Switch voltage	AC, 12 VA, DC, 10 W	6 W
Current	500 mA	200 mA
Opening	0,2 ms	0.2 ms
Closing	0,6 ms	0.1 ms
Operations	$>10^7$	$>10^7$
Proteection class	IP65	IP65

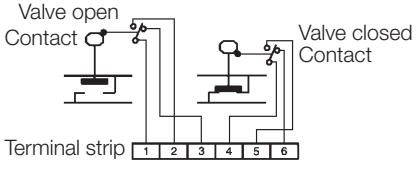
For part number contact OEM Automatic, Pressure and flow division.

Signalling box (for 290 and 390 type valves)

Technical specification

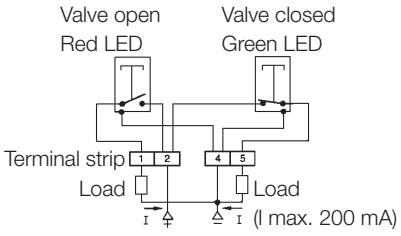
Mechanical contact

- Resistive load 3.2 A at 250 V
- Inductive load 1.8 A under 250 V



Inductive contact

- 10-30 V DC power supply
- Max. load 200 mA



For part number contact OEM Automatic, Pressure and flow division.

Solenoid Valves

2/2 pinch solenoid valves

- N/C operation
- 12 and 24VDC options
- For control of aggressive media
- Media in contact with tube only

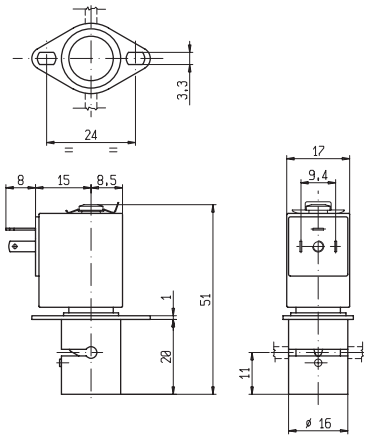
Technical specification

Differential pressure	0-0.8 bar
Pinch force	0.18-1.40 kg
Recommended tube	Silicon (VMQ), max. 50 Shore A
Media	Air, gas, water, oil and media compatible with silicon (VMQ)
Protection class	IP65
Standard voltages	DC (=) 12-24 V DC
Connector	Z031A DIN 43650 Micro Z530A DIN43650/A Z130A DIN43650/A

Construction	
Valve body	Nickel plated aluminium
Plunger	Stainless steel
Core tube	Stainless steel
Spring	Stainless steel
Pinch mechanism	POM
Coil	PET

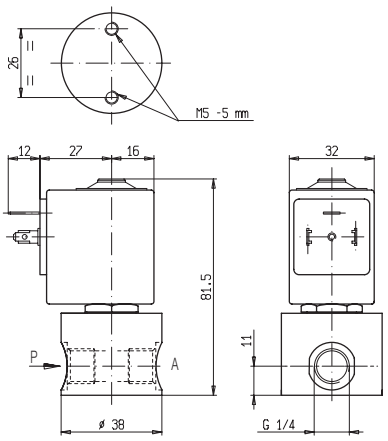
Dimensions

104



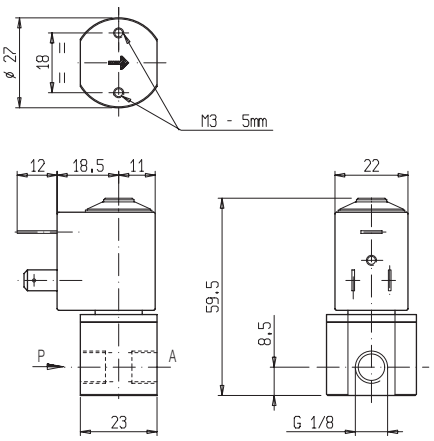
Weight 0.050 kg

105



Weight 0.260 kg

106



Weight 0.440 kg

Ordering information

Coil	Power consumption W =	Ambient temperature	Coil part number 12 V DC	Coil part number 24 V DC
Z031A	4	-10 °C to +60 °C	**Z031A/12VDC**	**Z031A/24VDC**
Z530A	9	-10 °C to +60 °C	**Z530A/12VDC**	**Z530A/24VDC**
Z130A	13	-10 °C to +60 °C	**Z130A/12VDC**	**Z130A/24VDC**

Part number	Tube diameter int.	Tube diameter ext.	Min. tube wall thickness (mm)	Force Kg	Differential pressure bar min.	Differential pressure bar air/gas/water/oil	Coil
S10409-Z031A	1.57	3.18	0.7	0.28	0	0.8	Z031A
S10410-Z031A	1.98	3.18	0.5	0.25	0	0.8	Z031A
S10506-Z530A	2.70	4.90	-	0.65	0	0.8	Z530A
S10608-Z130A	4.80	7.90	-	1.10	0	0.8	Z130A
S10609-Z130A	6.40	9.50	-	1.40	0	0.8	Z130A

заказ: тел/факс **8056-744-97-31, 8067-618-05-10**

Solenoid Valves

2/2 pinch solenoid valves

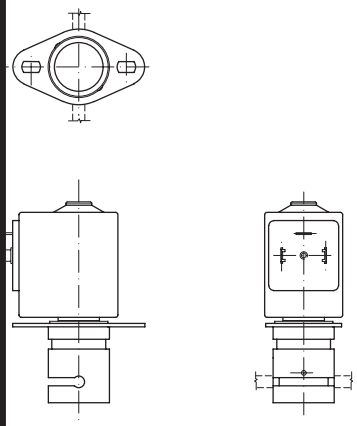
- N/O operation
- Compact design
- Only tube in contact with media
- 12 and 24VDC options

Technical specification

Differential pressure	0-0.8 bar
Pinch force	0.50-2.40 kg
Recommended tube	Silicon (VMQ), max. 50 Shore A
Media	Air, gas, water, oil and media compatible with silicon (VMQ)
Protection class	IP65
Standard voltages	DC (=) 12-24 V DC
Connector	Z031A DIN 43650 Micro Z530A DIN43650/A Z130A DIN43650/A

Construction	
Valve body	Nickel plated aluminium
Plunger	Stainless steel
Core tube	Nickel plated brass
Spring	Stainless steel
Pinch mechanism	POM
Coil	PET

205



Weight 0.275 kg

206

Weight 0.420 kg

Solenoid Valves

ASCO numatics

3/2 pinch solenoid valves

- Maximum 9.5mm tube diameter
- Ideal for medical, analytical applications
- 12 and 24VDC options
- N/C, N/O and Universal operation

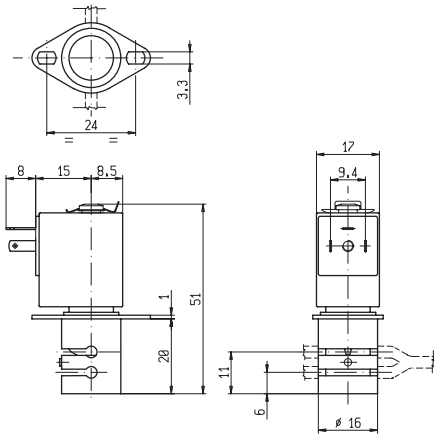
Technical specification

Differential pressure	0-0.8 bar
Pinch force	0.12-1.10 kg
Recommended tube	Silicon (VMQ), max. 50 Shore A
Media	Air, gas, water, oil and media compatible with silicon (VMQ)
Protection class	IP65
Standard voltages	DC (=) 12-24 V DC
Connector	Z031A-H DIN 43650 Micro Z530A DIN43650/A Z130A DIN43650/A

Construction	
Valve body	Nickel plated aluminium
Plunger	Stainless steel
Core tube	Nickel plated brass
Spring	Stainless steel
Pinch mechanism	POM
Coil	PET

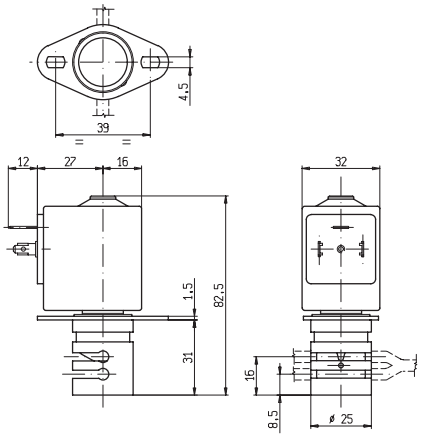
Dimensions

305



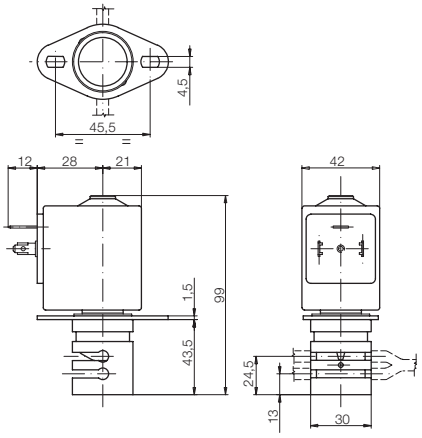
Weight 0.050 kg

306



Weight 0.280 kg

307



Weight 0.420 kg

Ordering information

Coil	Power consumption W =	Ambient temperature	Coil part number 12 V DC	Coil part number 24 V DC
Z031A	4	-10 °C to +60 °C	**Z031A/12VDC**	**Z031A/24VDC**
Z031F	6	-10 °C to +60 °C	**Z031F/12VDC**	**Z031F/24VDC**
Z031H	8	-10 °C to +60 °C	**Z031H/12VDC**	**Z031H/24VDC**
Z530A	9	-10 °C to +60 °C	**Z530A/12VDC**	**Z530A/24VDC**
Z130A	13	-10 °C to +60 °C	**Z130A/12VDC**	**Z130A/24VDC**

Part number	Tube diameter int.	Tube diameter ext.	Min. tube wall thickness (mm)	Force Kg	Differential pressure bar min.	Differential pressure bar air/gas/water/oil	Coil
S30506-Z031A	1.02	2.16	0.5	0.18	0	0.8	Z031A
S30507-Z031H	1.57	3.18	0.7	0.22	0	0.8	Z031H
S30508-Z031F	1.98	3.18	0.5	0.18	0	0.8	Z031F
S30602-Z530A	2.70	4.90	-	0.40	0	0.8	Z530A
S30705-Z130A	4.80	7.90	-	0.85	0	0.8	Z130A
S30706-Z130A	6.40	9.50	-	1.10	0	0.8	Z130A

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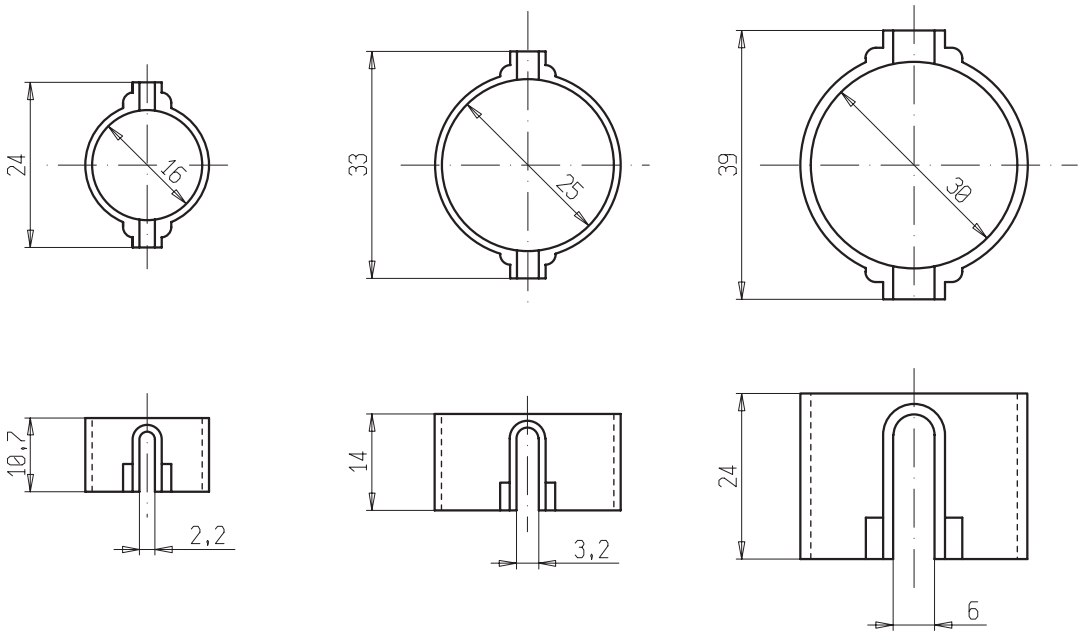
Tubing guide for pinch solenoid valves



25978 01 25984 01 25995 01

Valve	Valve body O.D. Ø mm	Max. tube O.D. Ø mm	Part number
S 104 S 204 S 305	16	2.2	2597801
S 105 S 205 S 306	25	3.5	2598401
S 106 S 206 S 307	30	6	2599501

Solenoid Valves

ASCO numatics

2/2 direct acting valve manifold 1/8”

- N/O, N/C operation
- Pressure range 0 to 20 bar
- Block in brass or stainless steel

2/2 cryogenic valve 1/2” to 3/4”

- N/C operation
- Media temperature –196°C to +90°C
- Pressure range 0 to 9 bar
- Brass body

2/2 co-axial valve 3/8” to 1”

- Brass / stainless steel options
- N/C, N/O operation
- Pressure range 0 to 40 bar
- 37 to 2031 l/min

2/2 rocker-type valves 1/4” or Ø8-11mm

- PEI body
- 2/2, 3/2 versions available
- N/C, N/O and Universal operation
- Pressure range 0 to 10 bar

заказ: тел/факс 8056-744-97-31, 8067-618-05-10

SOLENOID AND PRESSURE-OPERATED VALVE TECHNOLOGY
Proportional solenoid valves

Proportional action

Most flow control valves work on an “on/off” basis. They are either fully open or fully closed. Proportional valves, however, operate with a “proportional” action. By varying the electrical input to a proportional valve, the flow of the fluid through the valve can be continuously and steplessly adjusted between 0 to 100% of the maximum rated flow.

Construction

In order to obtain the proportional action, the solenoid operator is modified. The specific parts of a proportional solenoid valve as compared to a conventional on/off valve are shown in **Fig. 1**.

Operating principle

The flow coefficient Kv of a flow control valve depends on the opening of the valve (displacement or strokes of the core inside the core tube). **In proportional solenoid valves, the stroke is directly proportional to the current I_s flowing through the solenoid coil.**

Proportional solenoid valves operate on the principle that the pull force produced by an electromagnetic coil increases as the coil current I_s is increased, while likewise the counter- acting springforce increases when the top spring is compressed:

- If the current is less than I_o, the preset tension of the spring F_s is greater than the electromagnetic pullforce F_m and the valve remains closed.

- If the current increases to above I_o, F_m is greater than F_s and the core starts to move. The movement of the core compresses the spring causing F_s to increase. This continues until the new values of F_s and F_m are once again in balance. The process continues so that at any value of I the core moves into a position where F_s and F_m are balanced.

Specific parts of a proportional solenoid valve

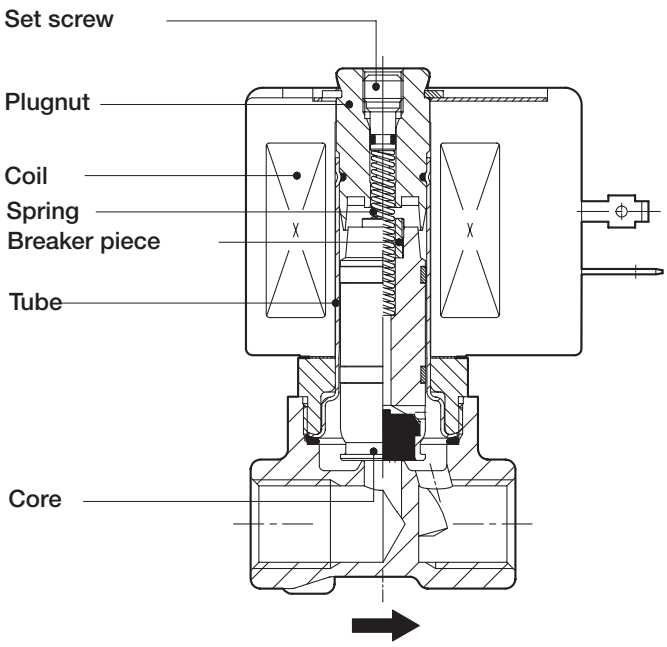


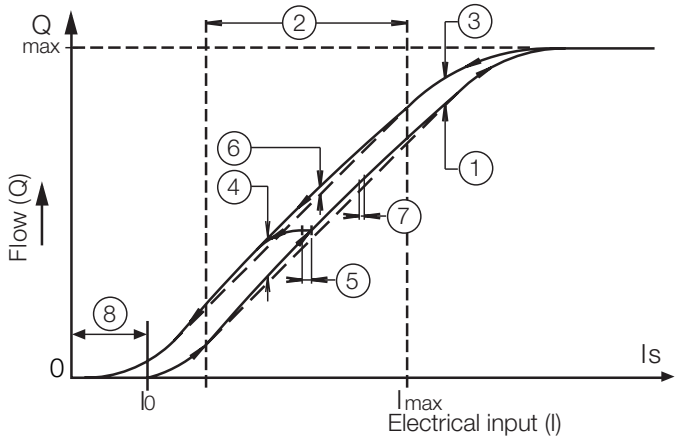
Fig. 1

The previous mentioned flow regulation characteristics are closely related. They are caused by a number of factors, in order of importance:

- the electromagnetic signal conversion (electromagnetic hysteresis),

- the friction between the moving and static components of the valve,

- the play in the mechanical interaction between the core and the valve seat, and - variations in the pressure differential (ΔP) across the valve.



1. Increasing coil current
2. Linear flow region
3. Decreasing coil current
4. Hysteresis
5. Reverse sensitivity
6. Flow linearity
7. Sensitivity
8. Threshold

Linearity

Flow curves usually show a curvature at both its “bottom” and “top” ends, in between which there is the “lineair”working part of the curve. The “(non-)linearity” is the degree to which the actual flow curve deviates from an ideal straight line (expressed as a percentage within a specified linear region of the curve).

Hysteresis

This is the difference in the flow rate at the same value of the electrical input, depending on whether this set value was reached from “below”, i.e. increasing the electrical input, or from “above” i.e. while decreasing the electrical input.
The hysteresis is expressed as a percentage of the maximum flow rate.

Threshold

The electrical input necessary to cause a significant flow rate from the zero position. The threshold is expressed as a percentage of the maximum electrical input value.

Sensitivity

The change in electrical input necessary to produce a noticeable change in the flow rate when the valve is moved from a stationary position in the same direction as the original direction. The sensitivity is expressed as a percentage of the maximum electrical input value.

Reverse sensitivity

The change in electrical input necessary to produce a noticeable change in the flow rate when the valve is driven from a stationary position in a direction opposite to the original direction.
The reverse sensitivity is expressed as a percentage of the maximum electrical input value.

Solenoid Valves

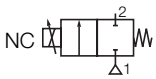
2/2 proportional valves M5

- Variable flow, proportional to signal
- Brass body
- M5 and sub-base mount
- 0 to 24VDC standard voltage

Technical specification

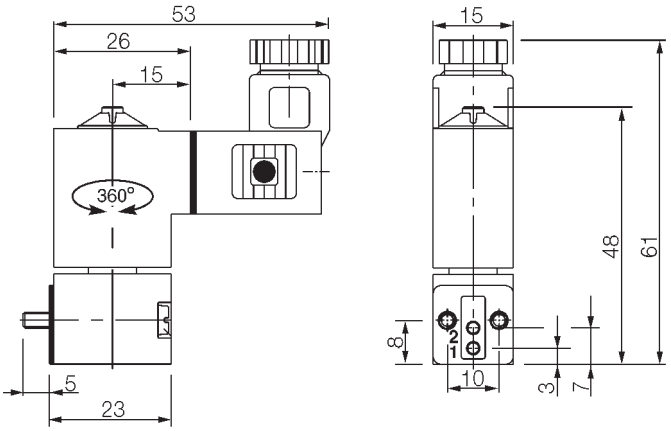
Differential pressure	0-12 bar
Max. allowable pressure	12 bar
Media	Air and inert gases
Media temperature	0 °C to +60 °C, FPM
Protection class	IP65
Standard voltages	12 and 24 VDC
Hysteresis	<5 %
Repeatability	3 %
Sensitivity	2 %
Connector	Micro DIN

Construction	
Valve body	Brass
Core tube	Brass
Plunger	Stainless steel 430FSS
Spring	Stainless steel 302SS
Seat	Brass
Seals	FPM
Coil	Epoxy

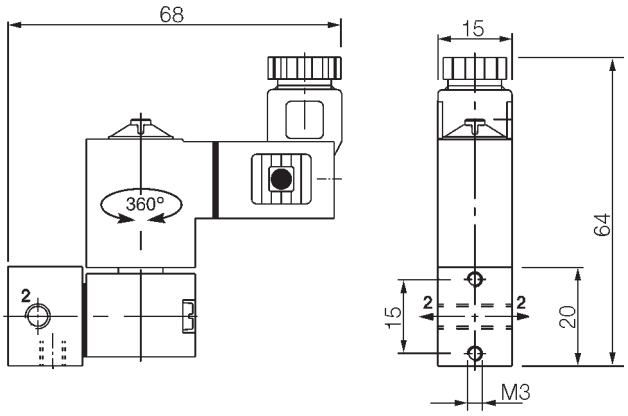


Dimensions

Sub-base mount



M5-Connection thread



Ordering information

Coil	Voltage	Power consumption		Ambient temperature
	V DC	Opening current mA	Hot/cold W	
CM15	12	Max. 175	3/2.6	0 °C to +60 °C
CM15	24	Max. 125	3/2.6	0 °C to +60 °C

Part number		orifice	Flow rate		Differential pressure bar		
Sub-base mount	*M5-Connection thread	mm	m³/h	l/min.	min.	vacuum	air/gas
SCS202A101V	SCE202A105V	0.8	0.02	0.3	0	1	12.0
SCS202A102V	SCE202A106V	1.2	0.05	0.8	0	1	7.0
SCS202A103V	SCE202A107V	1.6	0.08	1.3	0	1	4.0
SCS202A104V	SCE202A108V	2.0	0.10	1.7	0	1	2.5

* M5 connection thread valves are supplied with sub-base (M5) part number 303 00 001

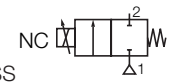
заказ: тел/факс 8056-744-97-31, 8067-618-05-10

2/2 proportional valves 1/8”

- Brass and stainless steel bodies
- Pressure range 0 to 8 bar
- Compact size
- N/C operation

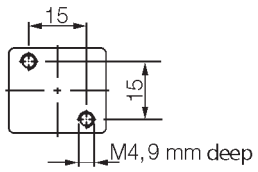
Technical specification

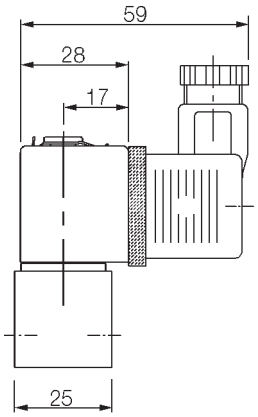
Differential pressure	0-8 bar
Max. allowable pressure	35 bar
Max. viscosity	50 cSt (mm²/s)
Media	Air, gas, water and oil
Media temperature	0 °C to +50 °C, FPM
Protection class	IP65
Standard voltages	0 to 24 V DC
Hysteresis	<5 %
Repeatability	1 %
Sensitivity	1 %
Connector	DIN43650 Industrial

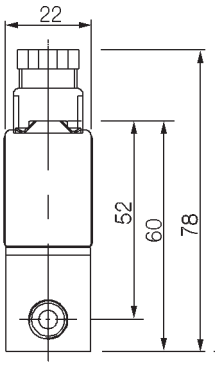


Construction		
Valve body	Brass	AISI303SS
Core tube	Stainless steel 305SS	Stainless steel 305SS
Plunger	Stainless steel 430FSS	Stainless steel 430FSS
Spring	Stainless steel 302SS	Stainless steel 302SS
Seat	Brass	Stainless steel 303SS
Seals	FPM	FPM
Plunger guide sleeve	PTFE (teflon)	PTFE
Coil	Epoxy	Epoxy

Dimensions







Ordering information

Coil	Power consumption		Ambient temperature
	Opening current mA	Hot/cold W	
CM22	100-450	8.6/6.3	0 °C to +40 °C

Part number	Connection thread	Orifice	Flow rate		Differential pressure bar			
	G	mm	m³/h	l/min.	min.	vacuum	air/gas	water/oil
Brass body, FPM seals								
SCG202A201V	1/8	1.2	0.05	0.7	0	1	8.0	5.0
SCG202A202V	1/8	1.6	0.07	1.1	0	1	6.0	4.0
SCG202A203V	1/8	2.4	0.13	2.2	0	1	4.0	3.0
SCG202A204V	1/8	3.2	0.18	2.9	0	1	2.5	2.5
Stainless steel body, FPM seals								
SCG202A205V	1/8	1.2	0.05	0.7	0	1	8.0	5.0
SCG202A206V	1/8	1.6	0.07	1.1	0	1	6.0	4.0
SCG202A207V	1/8	2.4	0.13	2.2	0	1	4.0	3.0
SCG202A208V	1/8	3.2	0.18	2.9	0	1	2.5	2.5

заказ: тел/факс 8056-744-97-31, 8067-618-05-10

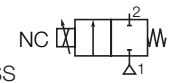
Solenoid Valves

2/2 proportional valve 1/4”

- Brass and stainless steel bodies
- Pressure range 0 to 16 bar
- Compact size
- 0 to 24VDC standard voltage

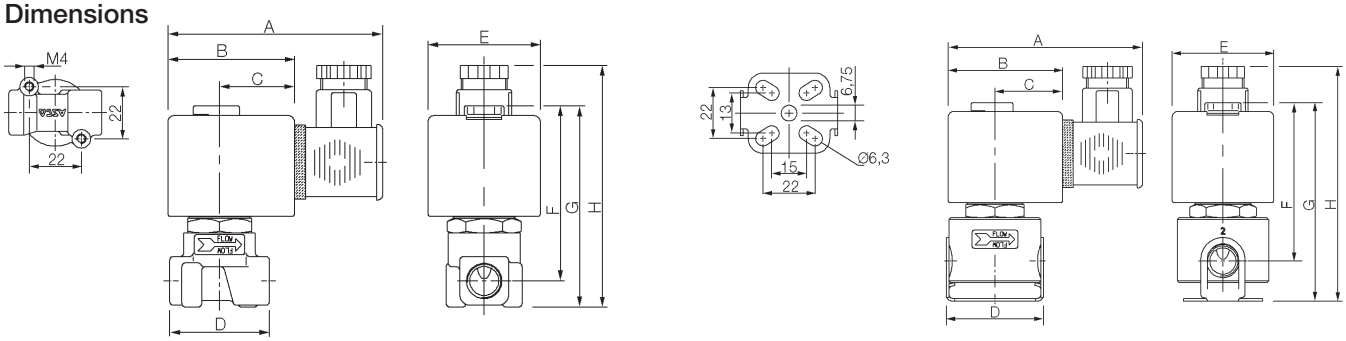
Technical specification

Differential pressure	0-16 bar
Max. allowable pressure	35 bar
Max. viscosity	21 cSt (mm²/s)
Media	Air, gas, water and oil
Media temperature	-10 °C to +90 °C, FPM
Protection class	IP65
Standard voltages	0 to 24 V DC
Hysteresis	<5 %
Repeatability	<3 %
Sensitivity	<2 %
Connector	DIN43650/A



Construction		
Valve body	Brass	AISI303SS
Core tube	Stainless steel 305SS	Stainless steel 305SS
Plunger	Stainless steel 430FSS	Stainless steel 430FSS
Spring	Stainless steel 302SS	Stainless steel 302SS
Seat	Brass	Stainless steel 303SS
Seals	FPM	FPM
Plunger guide sleeve	PTFE (teflon)	PTFE
Coil	Epoxy	Epoxy

Dimensions



Version	A	B	C	D	E	F	G	H	Weight (kg)
Brass	85	50	30	40	45	60	80	95	0.45
Stainless steel	80	50	30	40	45	60	79	94	0.45

Ordering information

Coil	Power consumption		Ambient temperature
	Opening current mA	Hot/cold W	
MXX-F	100-500	11/8	-10 °C to +75 °C

Part number		Connection thread	Orifice	Flow rate		Differential pressure bar		
air/gas	liquids		mm	m³/h	l/min.	min.	vacuum	air/gas/water/oil
G, brass body, FPM seals								
SCG202A001V	SCG202A051V	1/4	1.2	0.05	0.8	0	1	16.0
SCG202A002V	SCG202A052V	1/4	2.4	0.12	2.0	0	1	8.0
SCG202A003V	SCG202A053V	1/4	3.2	0.24	4.0	0	1	4.0
SCG202A004V	SCG202A054V	1/4	4.0	0.42	7.0	0	1	2.5
SCG202A006V	SCG202A056V	1/4	5.6	0.72	12.0	0	1	1.4
SCG202A007V	SCG202A057V	1/4	7.1	0.90	15.0	0	1	1.0
NPT, stainless steel body, FPM seals								
SCB202A011V	SCB202A061V	1/4	1.2	0.05	0.8	0	1	16.0
SCB202A012V	SCB202A062V	1/4	2.4	0.12	2.0	0	1	8.0
SCB202A013V	SCB202A063V	1/4	3.2	0.24	4.0	0	1	4.0
SCB202A014V	SCB202A064V	1/4	4.0	0.42	7.0	0	1	2.5
SCB202A016V	SCB202A066V	1/4	5.6	0.72	12.0	0	1	1.4
SCB202A017V	SCB202A067V	1/4	7.1	0.90	15.0	0	1	1.0

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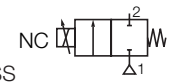
2/2 proportional valves 3/8”

- Brass and stainless steel bodies
- Pressure range 0 to 4 bar
- N/C operation

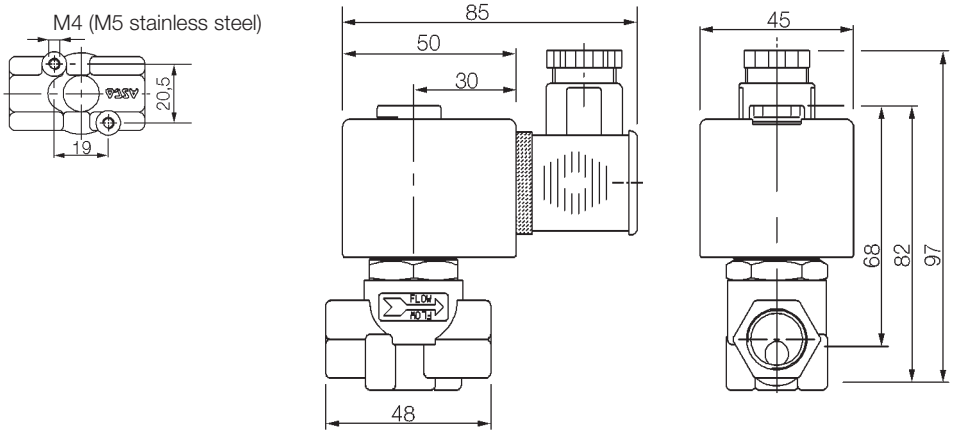
Technical specification

Differential pressure	0-4 bar
Max. allowable pressure	35 bar
Max. viscosity	21 cSt (mm²/s)
Media	Air, gas, water and oil
Media temperature	-10 °C to +90 °C, FPM
Protection class	IP65
Standard voltages	0 to 24 V DC
Hysteresis	<5 %
Repeatability	<3 %
Sensitivity	<2 %
Connector	DIN43650/A



Construction		
Valve body	Brass	AISI303SS
Core tube	Stainless steel 305SS	Stainless steel 305SS
Plunger	Stainless steel 430FSS	Stainless steel 430FSS
Spring	Stainless steel 302SS	Stainless steel 302SS
Seat	Brass	Stainless steel 303SS
Seals	FPM	FPM
Plunger guide sleeve	PTFE (teflon)	PTFE
Coil	Epoxy	Epoxy

Dimensions



Ordering information

Coil	Power consumption		Ambient temperature
	Opening current mA	Hot/cold W	
MXX-F	100-500	11/8	-10 °C to +75 °C

Part number		Connection thread	Orifice	Flow rate		Differential pressure bar		
air/gas	liquids		mm	m³/h	l/min.	min.	vacuum	air/gas/water/oil
G, brass body, FPM seals								
SCE202A023V	SCE202A073V	3/8	3.2	0.24	4.0	0	1	4.0
SCE202A024V	SCE202A074V	3/8	4.0	0.42	7.0	0	1	2.5
SCE202A026V	SCE202A076V	3/8	5.6	0.72	12.0	0	1	1.4
SCE202A027V	SCE202A077V	3/8	7.1	0.90	15.0	0	1	1.0
NPT, stainless steel body, FPM seals								
SCB202A033V	SCB202A083V	3/8	3.2	0.24	4.0	0	1	4.0
SCB202A034V	SCB202A084V	3/8	4.0	0.42	7.0	0	1	2.5
SCB202A036V	SCB202A086V	3/8	5.6	0.72	12.0	0	1	1.4
SCB202A037V	SCB202A087V	3/8	7.1	0.90	15.0	0	1	1.0

заказ: тел/факс 8056-744-97-31, 8067-618-05-10

Solenoid Valves

2/2 proportional valve 3/8 - 1/2”

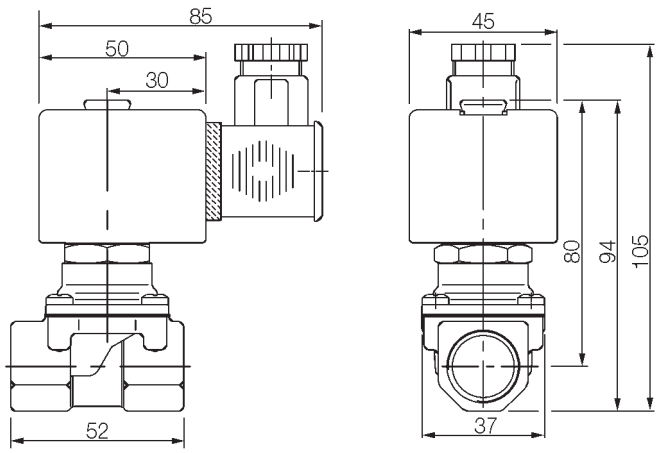
- Brass body
- Pressure range 0.3 to 10 bar
- N/C operation

Technical specification

Differential pressure	0.3-10 bar
Max. allowable pressure	15 bar
Max. viscosity	40 cSt (mm²/s)
Media	Water
Media temperature	-10 °C to +90 °C, NBR (Nitrile)
Protection class	IP65
Standard voltages	0 to 24 V DC
Hysteresis	<7.5 %
Repeatability	<3 %
Sensitivity	<2 %
Connector	DIN43650/A

Construction	
Valve body	Brass
Core tube	Stainless steel 305SS
Plunger	Stainless steel 430FSS
Spring	Stainless steel 302SS
Seat	Brass
Seals	NBR (Nitrile)
Plunger guide sleeve	PTFE (teflon)

Dimensions



Ordering information

Coil	Power consumption		Ambient temperature
	Opening current mA	Hot/cold W	
CMXX-F	100-500	11/8	-20 °C to +75 °C

Part number	Connection thread	Orifice	Flow rate		Differential pressure bar	
	G	mm	m³/h	l/min.	min.	water
SCG203B001	3/8	12.5	2.1	35	0.3	10
SCG203B002	1/2	12.5	2.1	35	0.3	10

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Electronic proportional control unit

- Adjustable ramp time
- Signal options 0 - 10V, (0)4-20mA
- Suitable for POSIFLOW valves

Technical specification

Supply voltage	24 V DC
Max. load	1100 mA
Ambient temperature	-10 °C to +75 °C

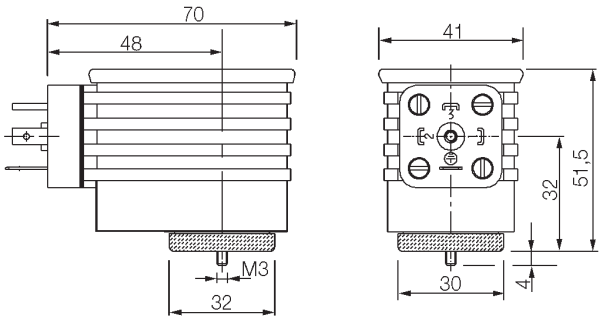
Electrical characteristics

Input control signal	0-10 V DC 0-20 mA 4-20 mA
Switch off current	2 % of max. input signal
Adjustable offset	15-50 % E.D
Adjustable full load	30-100 % E.D
Ramp times	0.1-3 sec.
Switch frequency	40-700 Hz
Power consumption	0.8 W

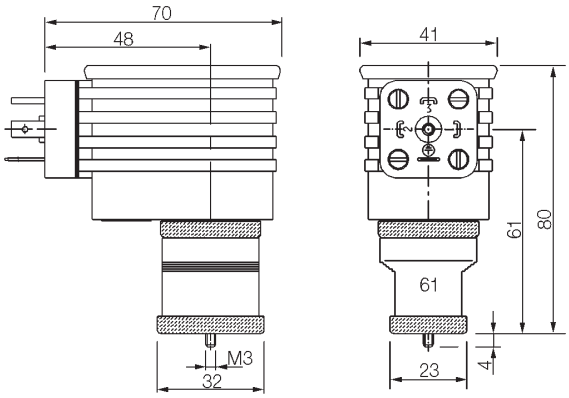
Construction	
Housing	PA (polyamide)
Cover	PA (polyamide)
Screw	Zinc plated steel
Gasket	NBR, (Nitrile)
Protection class	IP65, ISO4400
Electrical connection	DIN43650/A, 3 pole + earth

Dimensions

For valves with form A connectors



For valves with industrial form B connectors



Ordering information

Part number	Recommended for proportional valve types
E908A001	202A001V to 202A087V 203B001V to 203B002V
E908A003	202A201V to 202A208V
E908A004	202A101V to 202A104V 202A105V to 202A108V

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Solenoid Valves

ASCO numatics

2/2 proportional valve with compact positioner

- N/C, N/O options
- Pressure operated
- Bronze or stainless steel body options
- Input signal 0-10V, 0-20mA or 4-20mA

Technical specification

Valve	
Differential pressure	0-16 bar
Max. allowable pressure	16 bar
Max. viscosity	600 cSt
Response time	Subject to pilot valve flow rate contact Pressure and Flow for details
Media	Neutral and aggressive media Steam and hot water
Media temperature	-10 °C to 180 °C

Pilot	
Media	Air or neutral gases, lubricated or not, min. 50 µ filtering
Connection thread	1/8”
Orifice	0.5 mm
Flow	7 l/min. (ANR at 6 bar)
Media temperature	0 °C to 60 °C
Ambient temperature	0 °C to 50 °C

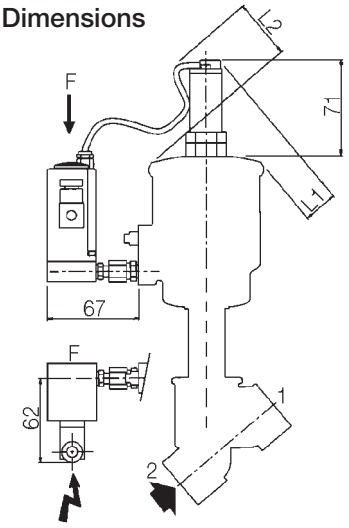
Construction

Valve

	Bronze	Stainless steel
Valve body	Bronze	AISI3165L
Disc	Brass	Stainless steel AISI303
Disc seal	PTFE (teflon)	PTFE (teflon)
Steam seal	PTFE (teflon)	PTFE (teflon)
Stem	Stainless steel AISI431	Stainless steel AISI431
Operator	Reinforced polyamid	Reinforced polyamid
Pilot port	Brass	Brass

Pilot	
Body	Aluminium and PA
Internal parts	Stainless steel and PA
Seals	NBR (Nitrile)
Supply voltage	24 V DC ±10 %, Max. 10 % ripple
Max. power	3.6 W
Max. current	150 mA
Input signal	0-10 V, 0-20 mA or 4-20 mA
Protection class	IP65
Potentiometer input	0-10 V (Rin=100 kV)
Hysteresis	<1 % PMR
Repeatability	<0.5 % PMR

Dimensions



	Operator (mm)		
	50	**63**	**90**
L1	32	25	15
L2	52	46	36