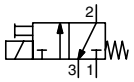
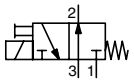
SOLENOID VALVES

direct operated
pad mounting body
M5 subbases

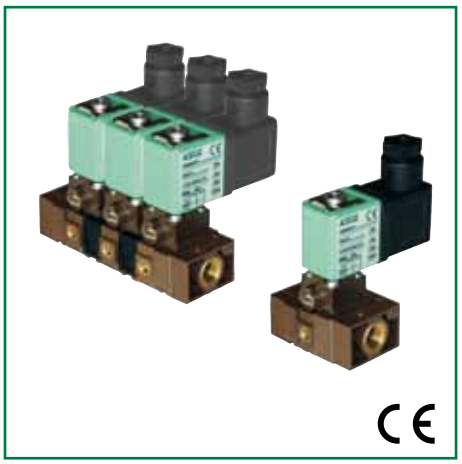
NC 

NO 

3/2
Series
109

FEATURES

- *Compact size and light weight simplify assembly on single or joinable subbases*
- *AC/DC interchangeability of the solenoid without disassembly of the valve*
- *Flexible installation on joinable subbases*
- *Manual operator allows an easy installation*
- *The solenoid valves satisfy all relevant EC directives*



GENERAL

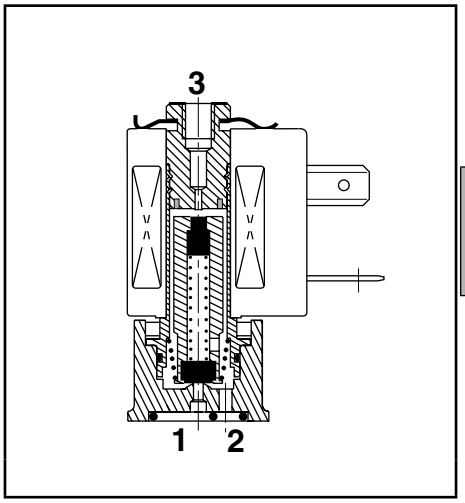
Differential pressure See «SPECIFICATIONS» [1 bar = 100 kPa]
Maximum viscosity 40 cSt (mm²/s)
Response time 5 - 10 ms

fluids (∗)	temperature range (TS)	seal materials (∗)
air, inert gas, water, oil	-10°C to +80°C	NBR (nitrile) FPM (fluoroelastomer)

MATERIALS IN CONTACT WITH FLUID

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

Body and subbases PPS
Core tube Brass
Internal parts, springs Stainless steel
Seals NBR or FPM
Subbase seals FPM
Shading coil Copper



ELECTRICAL CHARACTERISTICS

Coil insulation class F
Connector Spade plug (cable Ø 6-8 mm)
Connector specification DIN 43650, 11 mm, industry standard B (11 mm)
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

power ratings				operator ambient temperature range (TS)	replacement coil		type (1)
inrush ~	holding ~		hot/cold =		~	=	
(VA)	(VA)	(W)	(W)	(C°)	230 V/50 Hz	24 V DC	
6	3,5	2,5	2,5 / 3	-10 to +60	400127-097	400904-142	01

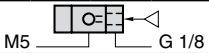
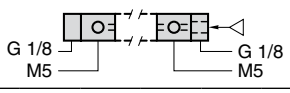
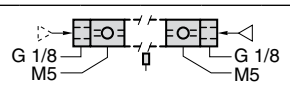
(1) Refer to the dimensional drawings on the following page.

E

SPECIFICATIONS

pipe size	orifice size		flow coefficient Kv				operating pressure differential (bar)					power coil (W)		catalogue number with maintained manual operator	
							min.	max. (PS)							
								air (∗)		water/oil(∗)				NBR	FPM
	1→2 (mm)	2→3 (mm)	1→2 (m³/h)	1→2 (l/min)	2→3 (m³/h)	2→3 (l/min)		~	=	~	=	~	=	~/=	~/=
NC - Normally closed															
pad mounting	1	1,2	0,03	0,5	0,06	1	0	15	15	15	15	2,5	3	**10900001**	**10900004**
	1,5	1,2	0,06	1	0,06	1	0	8	8	8	8	2,5	3	**10900040**	**10900043**
	2,5	1,2	0,10	1,8	0,06	1	0	3	3	3	3	2,5	3	**10900003**	**10900006**
NO - Normally open															
(2)	1,5	1,2	0,03	0,5	0,04	0,6	0	8	4	8	4	2,5	3	**10900017**	**10900029**

SUBBASES (3)

pipe size	mounting type	designation	composition	catalogue number
6/6 polyamide subbases				
M5 subbases G 1/8 ends	Individual mounting	Single subbase + two ends. Pressure to right, G 1/8		**36100009**
	Assembly of 2 to 10 joinable subbases (4)	1 joinable subbase		**36100004**
		Set of 2 joinable subbases with ends. Pressure to right, G 1/8		**36100005**
		Set of 2 joinable subbases with ends. Pressure to right and/or left, G 1/8		**36100032** (5)

(2) In NO function: pressure supply connected to the top of the solenoid valve Ø M5
(3) These subbases can be mounted on symmetrical rail to EN 50022, AFNOR NF C 63015, using 2 clips (clips: catalogue number 33400036, pack of 10).
(4) Maximum number of solenoid valves which can operate simultaneously on joinable subbases: Ø 1 mm: 10, Ø 1,5 mm: 5, Ø 2,5 mm: 3.
(5) Used for two different pressures, delivered with 1 plug to be put in the right place.

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OPTIONS

- Explosionproof enclosures for use in zones 1/21-2/22, categories 2-3 to ATEX Directive 94/9/EC (see “Explosionproof solenoids” section)
- Compliance with “UL”, “CSA” standards are available
- Oxygen service, used option catalogue number: **970517**
- Exhaust port regulator M5 adaptable on port 3, catalogue number: **34600380**
- 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
- Mounting on single or joinable subbases
- ATEX 94/9/EC versions can be installed on single subbases (all versions) or joinable zamak subbases (options “SCDU” and “PV”)
- Pipe connections 1/8 have standard thread according to ISO 228/1
- Installation/maintenance instructions are included with each valve

ORDERING EXAMPLES:

catalogue number	options	voltage
10900001		230V / 50 Hz
10900004		24V / DC

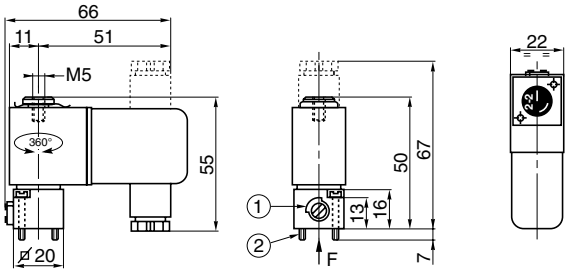
DIMENSIONS (mm), WEIGHT (kg)



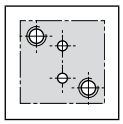
TYPE 01

Prefix “SC” Solenoid
Epoxy moulded
IEC 335 / DIN 43650 / IP65
weight : 0,100

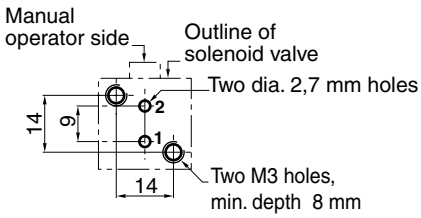
10900001/03/04/06/17/29/40/43

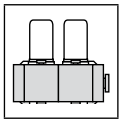


1 Manual operator location
2 2 M3 x 20 screws
3 Clips



SUBBASE MOUNTING PATTERN

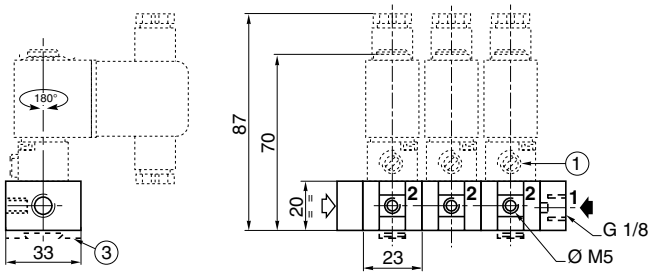


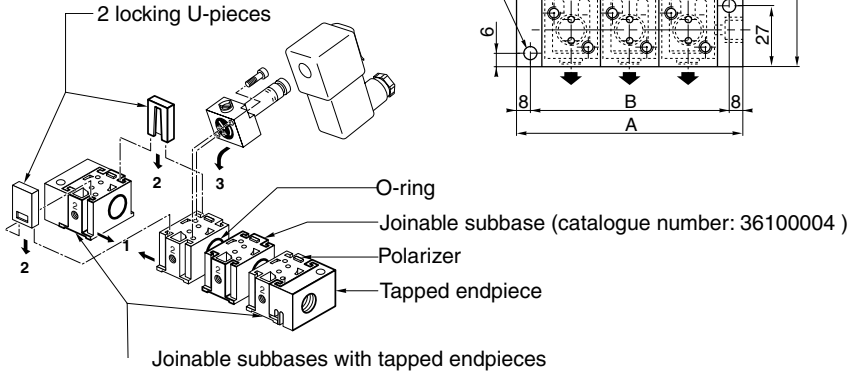


JOINABLE SUBBASE G 1/8

PPS

36100005/36100032





number of subbases	A	B	weight (1)
2	72	56	0,300
3	95	79	0,420
4	118	102	0,540
5	141	125	0,660
6	164	148	0,780
+1	+23	+23	+0,120

(1) including coils, connectors and joinable endpieces.

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