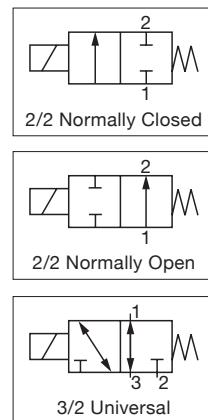


ASCO™ MINIATURE SOLENOID VALVES

ROCKER MECHANISM, FLUID ISOLATION, HOSE CONNECTIONS

- Valves for medical analysers, biotechnology, gas analysers
- Can be used to control acids and bases, as well as analytical reagents
- Any application where the fluid may not come into contact with metal parts and with the electromagnetic control section of the solenoid valves
- The valves are ideal for controlling aggressive fluids or when high purity is demanded and have easy to flush internal cavities
- They can also be used as a very small internal volume flow-through sampling valve due to rocker technology
- Hermetic separation of control mechanism and fluid
- Reduced heat exchange between coil and fluid
- Protected manual operator
- The use of first class materials and thorough valve testing ensure high reliability and a lifetime of at least 1 million cycles
- The solenoid valves satisfy all relevant EC directives
- Typical applications include:
 - Hematology



Fluids*	Temperature Range	Seal Materials*
Liquids or gases	0 °C to 40 °C (32 °F to 104 °F)	EPDM (ethylene-propylene)

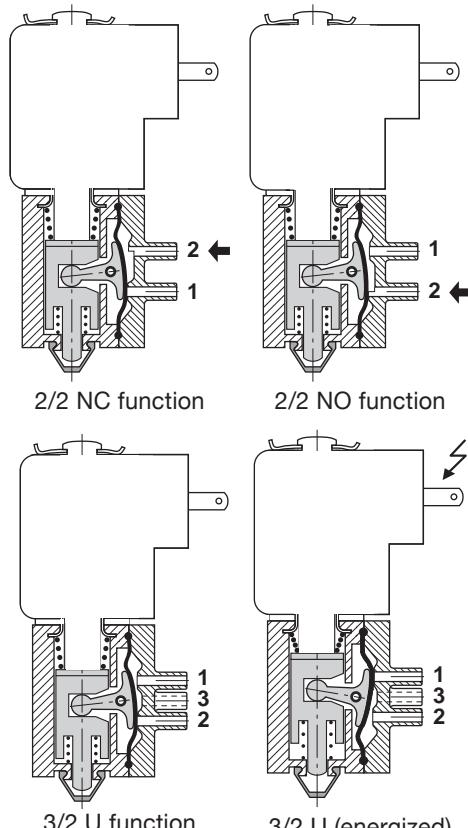
* Ensure that the compatibility of the materials in contact with the fluids is verified.

General Valve Information*	
Body	PA12
Internal parts	Stainless steel
Diaphragm-poppets	EPDM
Cover	PA12 (transparent), enabling flow of fluid to be seen
Differential pressure	-0.7 to +2 bar (usable in 0.3 bar abs. vacuum) [1 bar = 100 kPa]
Maximum viscosity	20 cSt (mm²/s)
Response Time	< 20ms
Internal Volume	< 75 µl (connections not included)

* Ensure that the compatibility of the materials in contact with the fluids is verified

Electrical Characteristics	
Coil Insulation Class	F
Duty cycle	100%
Coil	Two spade terminals 2.8 x 0.5 mm (DIN 46340)
Electrical Safety	IEC 335
Electrical Enclosure Protection	IP65 (EN60529)
Standard Voltages*	12 VDC, 24 VDC

* Other voltages on request



	Power Ratings			Ambient Temperature Ranges °C (°F)	Replacement Coil		Type ¹	
	Inrush	Holding	Hot/Cold		-	24 VDC		
	VA	VA	W		W			
	-	-	-	4 / 5	-5 to 40 (23 to 104)	-	43005269	01

¹ Refer to the dimensional drawings on the following page

Specifications

Connection	Orifice Size	Flow Coefficient			Operating Pressure bar (psi)		Power Rating	Catalog Number (protected impulse manual operator)	
					min.	max.		gases	liquids
		mm (inches)	K _v (m ³ /h)	C _v	l/min	W		Rear Mounting	central support plate mounting
2/2 NC - Normally closed / 2 connections									
Hose connection to ID 1.5 mm flexible tubing	1.5 (0.059)	0.05	0.058	0.75	-0.7 (-10)	2 (29)	2 (29)	5	11000006 11000010--P2
	2/2 NO - Normally open / 2 connections								
	1.5 (0.059)	0.05	0.058	0.75	-0.7 (-10)	2 (29)	2 (29)	5	11000005--P2 11000009
	3/2 U - Universal / 3 connections								
	1.5 (0.059)	0.05	0.058	0.75	-0.7 (-10)	2 (29)	2 (29)	5	11000007--P2 11000011--P2
	3/2 U - Universal / 4 connections								
	1.5 (0.059)	0.05	0.058	0.75	-0.7 (-10)	2 (29)	2 (29)	5	11000008 11000012

How to Order

Catalog number 11000006 11000010--P2 12V / DC 24V / DC
 Catalog number _____ Voltage _____

Options

- Stainless steel support plate for mounting between body and coil for:
 - 1 solenoid valve, catalogue number 88211001
 - 2 solenoid valves, catalogue number 88211002
 - 3 solenoid valves, catalogue number 88211003
 - 4 solenoid valves, catalogue number 88211004
 - 5 solenoid valves, catalogue number 88211005
 For more, contact us
- FKM (fluoroelastomer) diaphragm

Installation

- The solenoid valves can be mounted in any position without affecting operation
- Rear or control support plate mounting possible (see below)
- Hose connection of flexible tubing Ø 1.5 mm ID
- Compact size and simple tubing (see following page)
- Replacement coils are available
- Installation/maintenance instructions are included with each valve

ASCO™ MINIATURE SOLENOID VALVES

ROCKER MECHANISM, FLUID ISOLATION, HOSE CONNECTIONS

SERIES
110

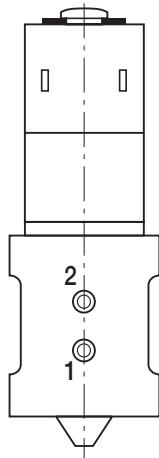
Dimensions: mm (inches)



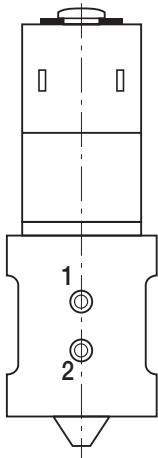
TYPE 01
Prefix "SC" Solenoid
DIN 43340

11000005.12

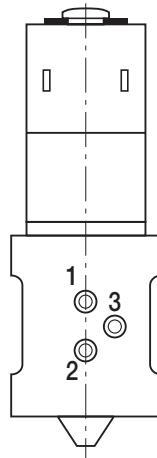
2/2 NC



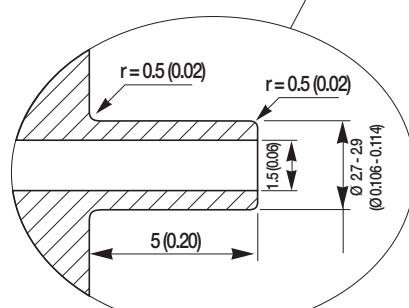
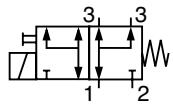
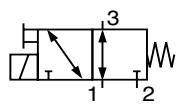
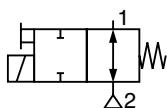
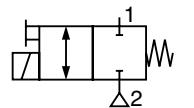
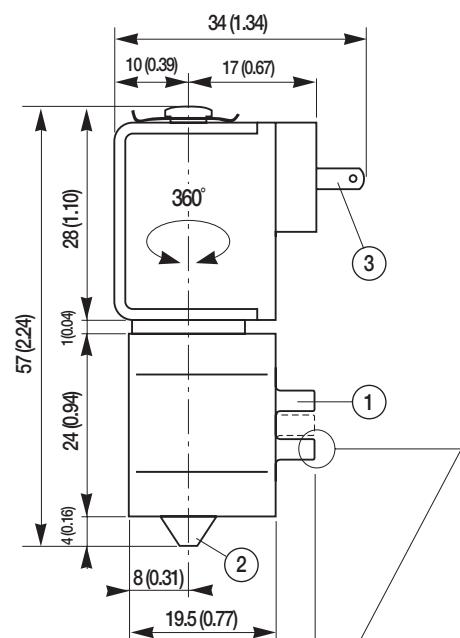
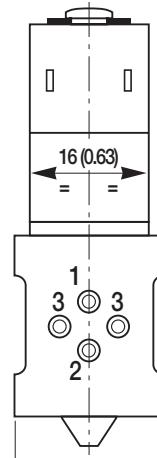
2/2 NO



3/2 U
(3 connections)



3/2 U
(4 connections)



Details of hose bib

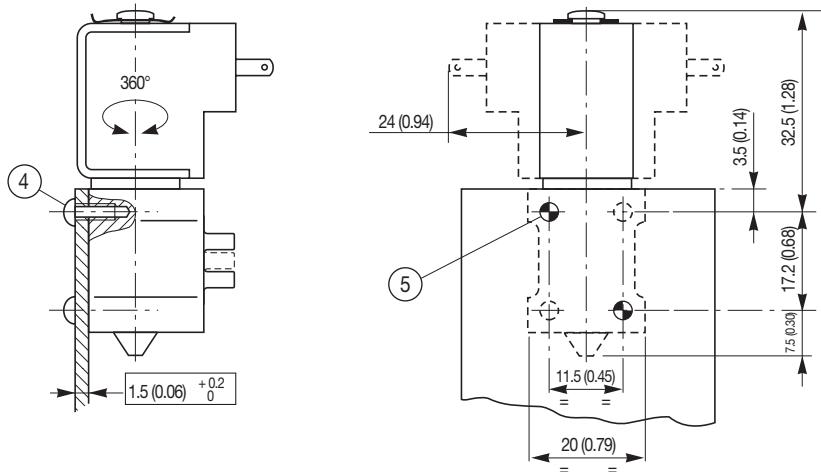
- ① Hose bibs for connection of ID 1.5 mm flexible tubing
- ② Protected impulse type manual operator
- ③ Coil with two spade terminals 2.8 x 0.5 (DIN 46340)

Type	Prefix option	Weight ⁽¹⁾ kg
01	SC	0.46

⁽¹⁾ Incl. coil

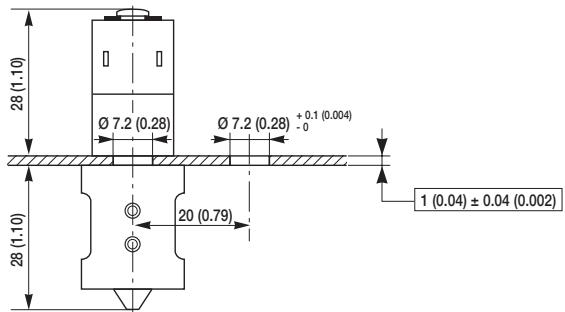
Dimensions: mm (inches)

REAR MOUNTING

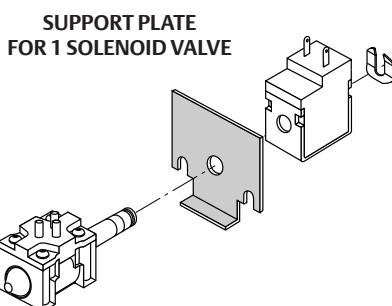


- ④ 2 self thread cutting «Torx» screws
K 22 x 6 - A2 stainless steel
(screws delivered)
 - use these screws only
 - use plate with correct thickness
 - max. torque: 0.3 Nm
- ⑤ Two mounting holes 2.5 mm dia.
Solenoid valve body has four
holes for mounting purpose

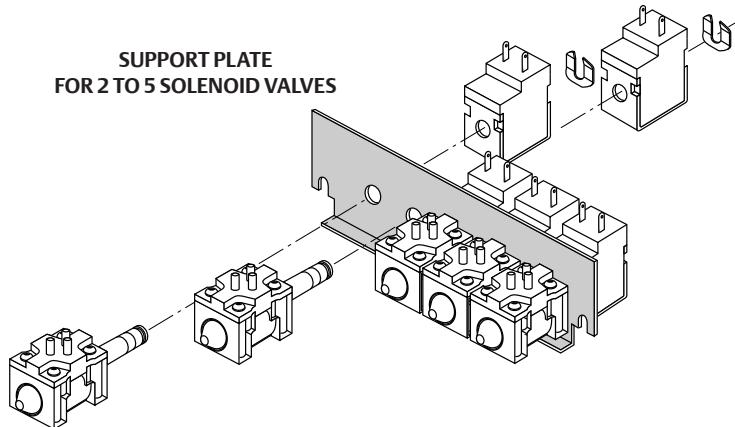
SUPPORT PLATE MOUNTING (For solenoid valve of corresponding type)

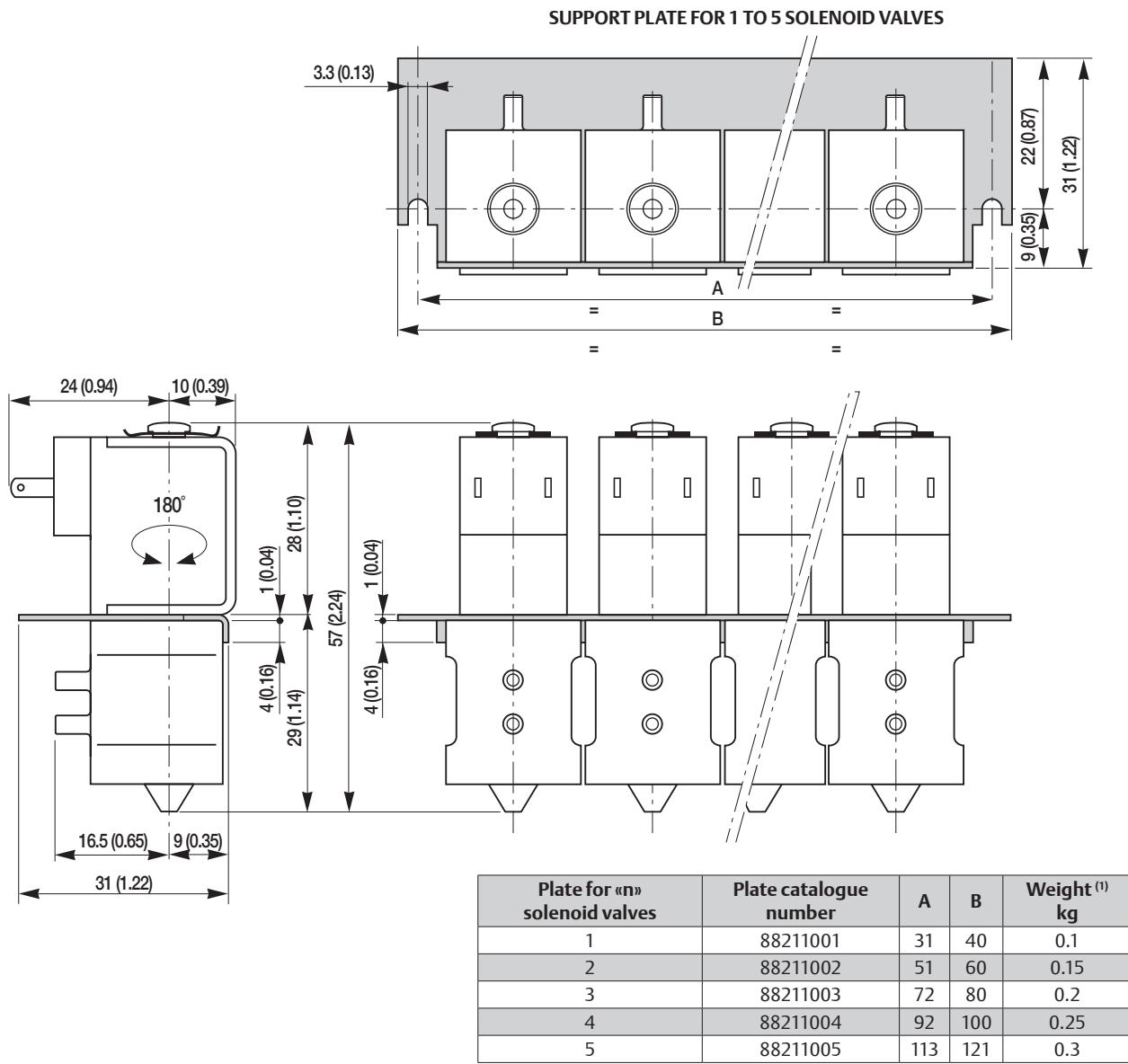


- The panel must be of non-magnetic material.
- To fit to panel, remove the clip and the solenoid valve coil and install as indicated below.



**SUPPORT PLATE
FOR 2 TO 5 SOLENOID VALVES**





SIMPLE TUBING

When valves mounted side by side on a support plate, an area is left open so that tubes pass between valve bodies

