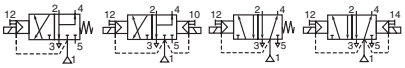
ASCO™ Spool Valves

single/dual solenoid (mono/bistable function) - pilot operated
aluminium body - "NAMUR" style - 1/4" tapped - stainless steel screws

3/2 NC-5/2
Series
551

Features and Benefits



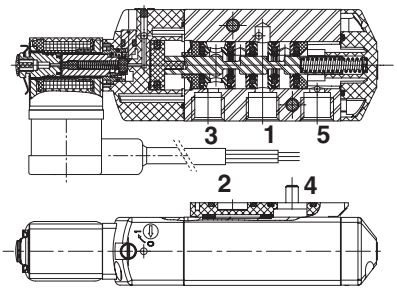


- *Spool valve protected against food and beverage environment thanks to stainless steel screws*
- *The solenoid operated spool valves have threaded port connections and NAMUR interface*
- *The same spool valve can be adapted for 3/2 NC or 5/2 functions for controlling double-acting and single-acting actuators*
- *All the exhaust ports of the spool valve are connectable, providing better environmental protection. Particularly recommended for sensitive areas, such as clean rooms, and applications in the pharmaceutical and food processing sectors*
- *The valves offer environmental protection against the ingress of liquids, dusts or other foreign matter (environmentally-protected construction)*
- *The solenoid valves satisfy all relevant EU directives*

General

Differential pressure 2 - 10 bar [1 bar = 100 kPa]
Flow (Qv at 6 bar) 700 l/min (ANR)

Fluids (✶)	Temperature range (TS)	Seal materials (✶)
air, inert gas, filtered	- 25°C to + 60°C	NBR (nitrile) + PUR (polyurethane)



Materials in contact with fluid

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

Body, end cover	Aluminium, black anodized
End cover (spring return)	PBT
Spool valve internal parts	stainless steel, POM, aluminium
Seals	NBR + PUR
Core and core tube	Stainless steel
Shading coil	Copper
Screws	Stainless steel 316L

Electrical characteristics

Coil insulation class	F
Connector	Spade plug connector with cable outlet 2 m long
Connector specification	EN 175301-803, 11 mm, industry standard form B (type 01)
Electrical safety	IEC 335
Electrical enclosure protection	Moulded-in cable IP67 (EN 60529)
Standard voltages	DC (=): 24V - 48V
(Other voltages and 60 Hz on request)	AC (~): 24V - 48V - 115V - 230V / 50 Hz

Prefix option	power ratings				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	
SC	6	3.5	2.5	2.5/3	-25 to +60	400127-097	400904-542	01

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

Specifications

Pipe size	Orifice size	Flow coefficient Kv		Operating pressure differential (bar)			Power coil (W)		Catalog number (with maintained manual operator)
				Min.	Max. (PS)				
					Air (✶)				
G	(mm)	(m^3/h)	(l/min)		~	=	~	=	~/=
3/2 NC - 5/2 - Solenoid air pilot operated - spring return (monostable)									
1/4"	6	0,6	10	2	10	10	2.5	3	**SCG551A082MS**
3/2 NC - 5/2 - Solenoid air pilot operated and return (bistable)									
1/4"	6	0,6	10	2	10	10	2.5	3	**SCG551A084MS**

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Options

- Valves equipped with exhaust reducers G 1/8 (3/2 NC-5/2, series 551), suffix M
- Set of two G 1/8 exhaust reducers (series 551), catalogue number **88100344**
- Other pipe connections are available on request
- Spade connector size 22, IP67 with integrated visual LED and varistor protection and PVC 0,75 mm² cable lenght of 2 m: **88100937**
- Plug with visual indication and peak voltage suppression or with cable length of 2 m

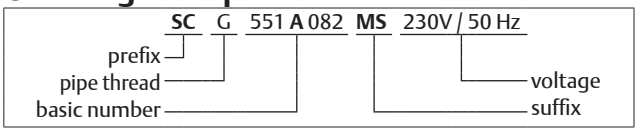
Installation

- The valves can be mounted in any position without affecting operation
- 3/2 NC-5/2 spool valve supplied with two interface plates with NAMUR mating surfaces. Depending on function (3/2 NC or 5/2), position one of the two plates on the spool valve body before installing on actuator
- Dowel pin (if necessary), bolts and gaskets are standard supplied
- It is necessary to connect pipes or fittings to the exhaust ports to protect the internal parts of the spool valve and its pneumatic operator if used outside or in harsh environments (dusts, liquids etc.)
- Threaded pipe connection is standard: G = G (ISO 228/1)
- Installation/maintenance instructions are included with each valve

Accessories

Series	Pipe size	Exhaust protector (stainless steel)
551	G 1/8	**34600418**
551	M5	**34600484**

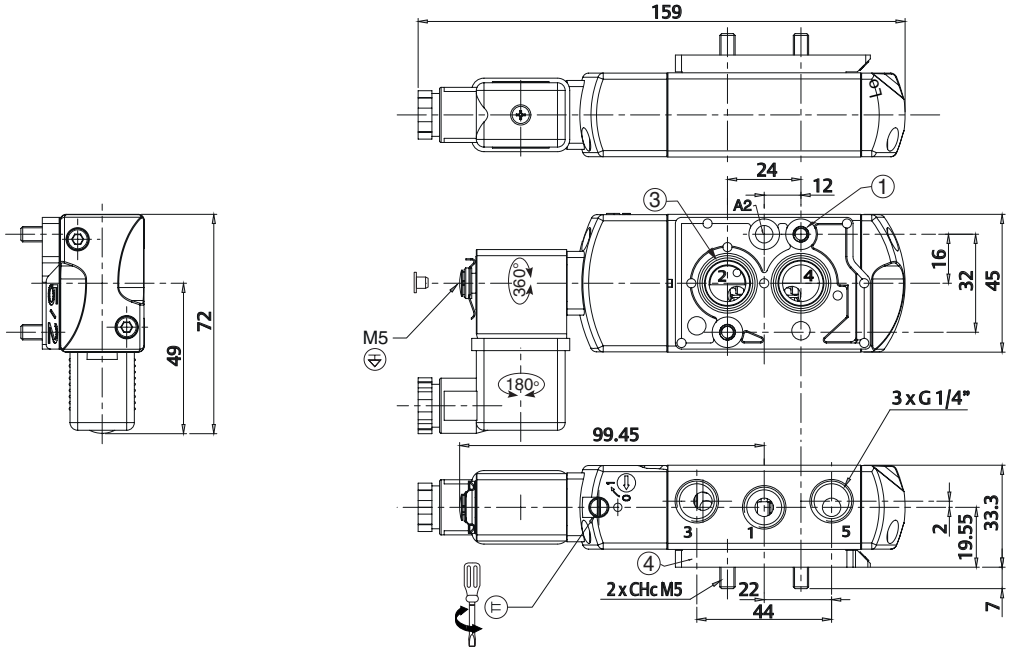
Ordering examples valves:



Dimensions (mm), Weight (kg)



TYPE 01
Prefix "SC" Solenoid
Epoxy moulded
IEC 335 / DIN 43650
IP67



Type	Prefix option	Weight (1)	
		Monostable	Bistable
01	SC	0.47	0.59

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

(1) 2 mounting holes
(2) One 5 mm dia. hole for dowel pin:
- in position A2: 5/2 function plate
(3) 2 O-ring seals (supplied)
(4) Interface plate

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