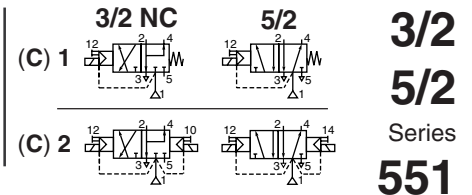


## SOLENOID VALVES

pilot operated, spool type  
single/dual solenoid  
aluminium body, NAMUR



### FEATURES

- Solenoid valves comply with all applicable EC Directives
- 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 this spool valve are pipable, providing better environmental protection, particularly recommended for sensitive areas such as clean rooms, and applications in the pharmaceutical and food processing sectors
- 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 (dust, liquids etc.)
- The return-spring chambers of the single-acting operators "breathe" through the spool valve, isolating them from the outside atmosphere
- Manual operator as standard

### GENERAL

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

fluids (*)	temperature range (TS)	sealings (*)
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	Aluminium, black anodized
End covers + interface plates	Glass-filled polyamide (PA/FG)
Internal parts	Zamak, stainless steel, acetal (POM), aluminium
Sealing	NBR + PUR
Core and core tube	Stainless steel
Shading coil	Copper

### ELECTRICAL CHARACTERISTICS

Coil insulation class	F
Coil	Epoxy resin
Spade plug connection coil	3 x DIN 46244
Connector	Type 22, spade plug (Pg 9P)
Electrical safety	VDE 0580
Standard voltages	DC (=): 24V
	(Other voltages and 60 Hz on request) AC (~): 24V - 115V - 230V / 50 Hz

coil type	power ratings				ambient temperature range (1) (TS) (°C)	protection
	inrush ~ (VA)	holding ~ (VA) (W)		hot/cold = (W)		
		(VA)	(W)			
CM22-2,5W	6	3,5	2,5	2,5 / 3	-25 to +60	moulded IP65

### SPECIFICATIONS

pipe size (G)	orifice size (mm)	flow coefficient Kv		operating pressure differential (bar)		coil type ~ / =	(C)	manual operator	exhaust reducer	catalogue number
		(m³/h)	(l/min)	min.	maximum (PS)					
					air (*) ~ / =					
<b>Single solenoid pilot operated - spring return (monostable), with or without exhaust reducers</b>										
1/4	6	0,6	10	2	10	CM22-2,5W	1	●	-	SC G551A001 MS
						CM22-2,5W	1	●	+	SC G551A001 MS M
<b>Dual solenoid pilot operated and air return (bistable), with or without exhaust reducers</b>										
1/4	6	0,6	10	2	10	CM22-2,5W	2	●	-	SC G551A002 MS
						CM22-2,5W	2	●	+	SC G551A002 MS M

(C) Construction type (see "Dimensions" chapter) ● : screw-type manual operator + : exhaust reducer

The codes in the grey shaded areas correspond to commonly used products which can be supplied rapidly

### OPTIONS AND ACCESSORIES

- Explosionproof enclosures according to "CENELEC" EEx **d, m, em, i** (see V903-08)
- Explosionproof and watertight enclosures according to "NEMA" standards (see section 10)
- Coil comply with "UL" standard
- Coil type CM25 with connector type 30 ISO 4400 (Pg 11P)
- Polyamide coil
- Versions : pneumatic operated, spring return: without exhaust reducer, catalogue number **G551A101**  
with exhaust reducer, catalogue number **G551A101 M**  
dual pneumatic operated, air return: without exhaust reducer, catalogue number **G551A102**  
with exhaust reducer, catalogue number **G551A102 M**
- Set of stainless steel mounting screws, catalogue number **978 02 212**
- Set of two exhaust reducers, catalogue number **881 00 344**
- 1/8 exhaust fittings (see Page V903-85)
- Plug with visual indication and with peak voltage suppression or with cable length of 2m (see section 11)

### INSTALLATION

- The solenoid spool valves can be mounted in any position
- Spool valve supplied with two interface plates with NAMUR mating surfaces. Depending on function (NC 3/2 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
- Connect or protect the exhaust ports to isolate the internal atmosphere of the internal parts of the spool valve. Range of 1/8 fitting available (see Page V903-85).
- Pipe connections have standard thread according to ISO 228/1
- The third digit in the catalogue number indicates the standard pipe connection
- Other pipe threads are available on request
- Installation/maintenance instructions are included with each solenoid spool valve
- Replacement coils are available

**DIMENSIONS (mm), WEIGHT (kg)**

