



SPOOL VALVES

pilot operated or air operated, spool type
single/dual solenoid or air
aluminium body, "NAMUR" style, 1/4 - 1/2

3/2-5/2
5/3
Séries
551
553

FEATURES

- 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 monostable spool valves in conformity with IEC 61508 Standard (2010 route 2_H version) have TÜV (551 series) and EXIDA (551-553 series) certified with integrity levels: SIL 2 for HFT = 0 / SIL 3 for HFT = 1
- The solenoid valves satisfy all relevant EC directives

GENERAL

Differential pressure
Flow (Qv at 6 bar)

2 - 10 bar [1 bar = 100 kPa]
l/min (ANR)
1/4 1/2
700 3000

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)	Glass fibre filled PA
Spool valve internal parts	Zamak, stainless steel, POM, aluminium
Seals	NBR + PUR
Core tube	Brass
Core and plugnut	Stainless steel
Shading coil	Copper

ELECTRICAL CHARACTERISTICS

Coil insulation class	F
Connector	Spade plug (cable Ø 6-8 mm or Ø 6-10 mm)
Connector specification	DIN 43650, 11 mm, industry standard B (type 01) or ISO 4400 / EN 175301-803, form A (type 02) IEC 335
Electrical safety	
Electrical enclosure protection	Moulded IP65 (EN 60529)
Standard voltages	DC (=): 24V - 48V AC (~): 24V - 48V - 115V - 230V / 50 Hz
(Other voltages and 60 Hz on request)	

prefix option	power ratings				operator ambient temperature range (TS) (C°)	replacement coil		type ⁽¹⁾
	inrush ~	holding ~		hot/cold =		~	=	
	(VA)	(VA)	(W)	(W)		230 V/50 Hz	24 V DC	
SC	6	3,5	2,5	2,5 / 3	-25 to +60	400127-097	400904-542	01
SC	15	7	5	4 / 5	-25 to +60	400727-117	400727-185	02

⁽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)		catalogue number	options		
				min.	max. (PS)					maintained man. operator		
					air (*)							
G	(mm)	(m³/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	SCG551A001	MS	-	-
1/2	13	2,49	41,5	2	10	10	5	5	SCG553A001	MS	-	-
3/2 NC - 5/2 - Solenoid air pilot operated and return (bistable)												
1/4	6	0,6	10	2	10	10	2,5	3	SCG551A002	MS	-	-
1/2	13	2,49	41,5	2	10	10	5	5	SCG553A002	MS	-	-
5/3 - W1 - pressure held, solenoid air pilot and return												
1/4	6	0,6	10	2	10	10	2,5	3	SCG551A065	MS	-	-
1/2	13	2,49	41,5	2	10	10	5	5	SCG553A065	MS	-	-
5/3 - W3 - pressure released, solenoid air pilot and return												
1/4	6	0,6	10	2	10	10	2,5	3	SCG551A066	MS	-	-
1/2	13	2,49	41,5	2	10	10	5	5	SCG553A066	MS	-	-
3/2 NC - 5/2 - Solenoid air pilot operated spring return (monostable), certified IEC 61508 Functional Safety data												
1/4	6	0,6	10	2	10	10	2,5	3	SCG551A001SL	-	-	-
1/2	13	2,49	41,5	2	10	10	5	5	SCG553A001SL	-	-	-

