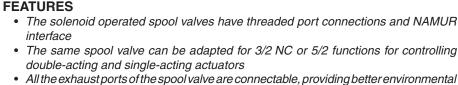


SOLENOID VALVES

pilot operated, spool type single/dual solenoid (mono/bistable function) brass body, "NAMUR" style, 1/4

CE

ΤÜV



- 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)
- Can be externally piloted (external air pilot supply) to convert valve to zero minimum operation by flipping a gasket
- The monostable spool valves in conformity with IEC 61508 Standard (2010 route 2_H version) have TÜV certified with integrity levels: SIL 2 for HFT = 0 / SIL 3 for HFT = 1
- The solenoid valves satisfy all relevant EU directives

Differential pressure 2 - 10 bar [1 bar = 100 kPa]

Flow (Qv at 6 bar) 700 l/min (ANR)

Pilot mounting interface surface ISO 15218 (CNOMO E06.36.120N, size 15)

fluids (*)	temperature range (TS)	seal materials (*)		
air, inert gas, filtered	-40°C to +60°C	VMQ (silicone) + PUR (polyurethane)		

MATERIALS IN CONTACT WITH FLUID

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

Body, end cover, seats **Brass**

Spool valve internal parts Brass, stainless steel, POM

Core tube Stainless steel Core and plugnut Stainless steel Core spring Stainless steel

Top disc Pilot seals FPM, NBR

Glass fibre filled PA Interface plates

Shading coil Copper

OTHERS MATERIALS

Solenoid enclosure (WP) Zinc plated steel (epoxy coated)

ELECTRICAL CHARACTERISTICS Coil insulation class

Connector (SC) Spade plug (cable Ø 6-10 mm) ISO 4400 / EN 175301-803, form A Connector specification (SC)

Coil connection (WP) Embedded screw terminal (cable ø 7 - 12 mm)

Cable entry (WP) Cable gland, polyamide (PA), M20x1,5

Electrical safety

Moulded IP65 (SC) or IP67 (WP) (EN 60529) **Electrical enclosure protection**

Standard voltages DC (=): 24V - 48V

AC (~): 24V - 48V - 115V - 230V / 50 Hz (Other voltages and 60 Hz on request)

ſ	prefix		power	ratings		operator	replacement coil		type (1)
		inrush	hold	ing	hot/cold	ambient temperature			
	option	?	~		=	range (TS)	~	· =	
		(VA)	(VA)	(W)	(W)	(C°)	230 V/50 Hz	24 V DC	
	SC	55	23	10,5	9 / 11,2	-40 to +75	400425-117	400425-142	01
	WP	55	23	10,5	9 / 11,2	-40 to +75	400405-117	400405-142	02



SPECIFICATIONS

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pipe	orifice size	coatticient			ating pressure erential (bar)		power coil			catalogue number		option:	
size				min.		nax. (PS) (W) air (*)		V)	type 01 (SC) type 02 (WP)		impulse / maintained man. operator		
G	(mm)	(m³/h)	(l/min)	(2)	~	=	~	=	~/=	~/=	impi mair man		
3/2 NC - 5/2 - Solenoid air pilot operated - spring return (monostable)													
1/4	6	0,6	10	0/2	10	10	10,5	11,2	SCG551A403	WPG551A403	MO	-	-
3/2 NC - 5/2 - Solenoid air pilot operated and return (bistable)													
1/4	6	0,6	10	0/2	10	10	10,5	11,2	SCG551A404	WPG551A404	МО	-	-
3/2 NC - 5/2 - Solenoid air pilot operated spring return (monostable), certified IEC 61508 Functional Safety data													
1/4	6	0,6	10	0/2	10	10	10,5	11,2	SCG551A403SL	WPG551A403SL	-	-	-

(2) Zero minimum is only achieved if external pressure is applied.

All leaflets are available on: www.asco.com

Prefix SC

Prefix WP

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OPTIONS

- Valves configured for external pilot air supply, use TPL 20547
- Explosionproof enclosures for use in zones 0/20-1/21-2/22, categories 1-2-3 to ATEX-Directive 2014/34/EU (see "Explosionproof Solenoids" section)
- Compliance with "UL", "CSA" and other local approvals available on request
- Coil insulation class H for max. ambient temperature +80°C, prefix HT ("SCHT" or "WPHT")
- 1/2" NPT (prefix "T") and M20 x 1.5 (prefix "ET") conduits (aluminium or 316 SS) available for steel solenoid enclosure
- Valves equipped with exhaust reducers, suffix M
- Set of stainless steel mounting screws, catalogue number 97802212
- Set of two exhaust reducers, catalogue number 88100344
- Other pipe connections are available on request
- 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
- 3/2 NC-5/2 spool valve supplied with one interface plate with NAMUR mating surface. Depending on function (3/2 NC or 5/2), position the plate on the spool valve body before installing on actuator
- Do not connect the pressure supply to the exhaust port 3. The "environmentally-protected" construction is not adapted for NO function. Contact us for function available in specific version
- 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.)
- IEC 61508 Functional Safety (suffix SL). Check temperature range of valve body and solenoid for suitability. For probability of failure, contact us
- Threaded pipe connection is standard: G = G (ISO 228/1)
- Prefix "WP" execution: solenoid enclosure has a cable gland with integral strain relief for cables with an O.D. from 7 to 12 mm and is provided with internal and external grounding terminals
- Valves with suffix "SL" are supplied with specific exhaust protectors
- · Installation/maintenance instructions are included with each valve

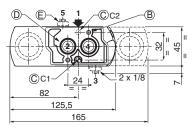
ACCESSORIES

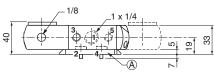
series	pipe size	exhaust protector (stainless steel)
551	G 1/8	34600418 ⁽¹⁾

⁽¹⁾ Supplied with suffix "SL".

DIMENSIONS (mm), WEIGHT (kg)



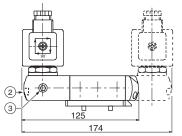


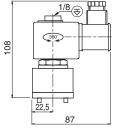


- (A) Interface plate
- (B) Mounting: 2 CHc M5x35 screws, engaged lenght 7 mm
- (C) One 5 mm dia. hole for dowel pin:
 - in position C1: 3/2 NC function plate
 - in position C2: 5/2 function plate
- (D) 2 O-ring seals (supplied)
- (E) Exhaust reducer or exhaust protector G 1/8



TYPE 01 Prefix "SC" Solenoid Epoxy moulded IEC 335 / ISO 4400 **IP65**





type	prefix	weight (1)			
',,,,,	option	monostable	bistable		
01	SC	1,45	1,96		
02	WP	1,62	2,23		

(1) Including coil(s), connector (SC) and cable gland (WP).



ORDERING EXAMPLES:

prefix

pipe thread

basic number

SC G 551 A 403

WP G 551 A 404

SC G 551 A 403 SL

WP G 551 A 403 MO 115V/50 Hz WPHT G 551 A 404 MO 230V/50 Hz

230V / 50 Hz

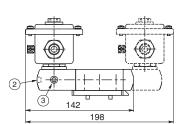
230V / 50 Hz

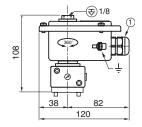
24V / DC

voltage

suffix

TYPE 02 Prefix "WP" Solenoid Metal; epoxy coated IFC 335 **IP67**





- (1) Cable gland for unarmoured cable with 7 to 12 mm dia. sheath
- (2) Manual operator location
- External pilot air supply, 1/8 pipe size

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