ASÇΔ

SOLENOID VALVES

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

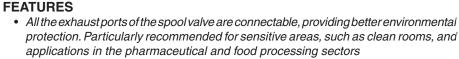
 $C \in$



Prefix SC

Prefix WP

ΤÜV



 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

GENERAL

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

Flow (Qv at 6 bar) 860 I/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

FPM. NBR Pilot seals 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) Connector specification (SC) ISO 4400 / EN 175301-803, form A

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

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

Electrical safety IEC 335

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

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

			power	ratings		operator	replacer			
, , , , , , , , , , , , , , , , , , ,	prefix option	inrush	holding		hot/cold	ambient temperature	Теріассі	tuno (1)		
		~	~		=	range (TS)	~	=	type (1)	
		(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	

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

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

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Availability,

SPECIFICATIONS													
pipe	orifice size	flow coefficient Kv		operating pressure differential (bar)			power coil		catalogue		option		ns
size				max. (PS)		(PS)	· (W)		number		ned erat		
		``	·V	min.	air	(*)]		type 01 (SC)	type 02 (WP)	impulse / maintained man. operator		
G	(mm)	(m³/h)	(l/min)		~	=	~	=	~/=	~/=	m m in		
5/2 - 9	5/2 - Solenoid air pilot operated - spring return (monostable)												
1/4	6	0,75	12,5	0/2	10	10	10,5	11,2	SCG551A419	WPG551A419	МО	-	-
5/2 - Solenoid air pilot operated and return (bistable)													
1/4	6	0,75	12,5	0/2	10	10	10,5	11,2	SCG551A420	WPG551A420	МО	-	-
5/2 - 9	5/2 - Solenoid air pilot operated spring return (monostable), certified IEC 61508 Functional Safety data												
1/4	6	0,75	12,5	0/2	10	10	10,5	11,2	SCG551A419SL	WPG551A419SL	-	-	-

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

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青岛秉诚自动化设备有限公司 地址:中国·青岛市重庆南路99号海尔云街甲3号楼7F 服务热线:4006-918-365 网址:http://www.asco.store 传真:(86-532)585-10-365 **V826-1** Email: sales@bechinas.com



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
- 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)

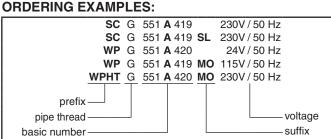
INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- · 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

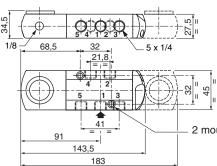
series	pipe size	exhaust protector (stainless steel)	
551	G 1/8	34600418 ⁽¹⁾	
	G 1/4	34600419 ⁽¹⁾	

⁽¹⁾ Supplied with suffix "SL".



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

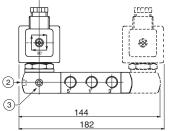


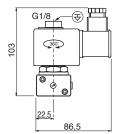


2 mounting holes: 5,3 mm dia. (Spotfacing: 9 mm dia., depth 5 mm)



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



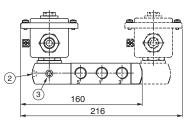


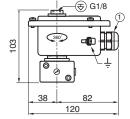
type	prefix	weight (1)				
.,,,,,	option	monostable	bistable			
01	SC	1,52	2,28			
02	WP	1 70	2 72			

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



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





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

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