

FEATURES

- Compact design and low weight enabling easy installation on all series 290 & 390 valves with 32, 50 & 63 mm operators
- Manual operator allows an easy installation
- AC/DC interchangeability of the solenoid without disassembly of the valve
- Simple installation (supply port, solenoid valve body, coil and connector rotatable through 360°), built-in exhaust regulator (pilot valve series 189/banjo coupling)
- Compliance with UL and CSA standards (pilot valve series 356 coupling)
- The solenoid valves satisfy all relevant EC Directives

GENERAL

Differential pressure

See «SPECIFICATIONS» [1 bar = 100 kPa]

Maximum viscosity

40 cSt (mm²/s)

Response time

See page V402-7

pilot (series)	fluids (*)	temperature range (TS)	seal materials (*)
189 banjo	filtered air	-10°C to +60°C	NBR (nitrile)
356	filtered air and water		FPM (fluoroelastomer)

MATERIALS IN CONTACT WITH FLUID

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

Body	Banjo pilot 189	Pilot 356
Core tube	PA, glass fibre reinforced	Brass or stainless steel AISI 316
Core and plunlut	Brass	Stainless steel
Springs	Stainless steel	Stainless steel
Seats	Stainless steel	Stainless steel
Seals	PA + Stainless steel	Brass or stainless steel
Shading coil	NBR	FPM
	Copper	Copper

ELECTRICAL CHARACTERISTICS

Coil insulation class

F

Connector

Spade plug (cable Ø 6-8 mm)

Connector specification

DIN 43650, 11 mm, industry standard B

Electrical safety

IEC 335

Electrical enclosure protection

Moulded IP65 (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°)	
-	6	3,5	2,5	-10 to +60	400127-097	400904-142	01
SC	12	6	4	5 / 6,9	-10 to +60	400127-197	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 with maintained manual operator
					min. (4)	max. (PS)		
	2↔1	1-2↔3	2↔1	1-2↔3	air (*)	water (*)		
	(mm)	(mm)	(m ³ /h)	(l/min)	(m ³ /h)	(l/min)		
NC - Normally closed, series 189 banjo pilot								
1/8 ⁽²⁾	1,2	1,2	0,03	0,5	0,04	0,7	0	10 10 - - 2,5 3 18900032
NC - Normally closed, series 189 banjo pilot with built-in exhaust regulator								
1/8 ⁽²⁾⁽⁵⁾	1,2	1,2	0,03	0,5	0,04	0,7	0	10 10 - - 2,5 3 18900047
NC - Normally closed, series 356 pilot, brass body								
1/8 ⁽²⁾	1,6	1,2	0,08	1,33	0,05	0,8	0	10 10 10 10 4 6,9 SCG356B053VMS ⁽³⁾
NC - Normally closed, series 356 pilot, stainless steel body								
1/8 ⁽²⁾	1,6	1,2	0,08	1,33	0,05	0,8	0	10 10 10 10 4 6,9 SCG356B058VMS ⁽³⁾

(²) Pipe size:

- Port 1: O.D. 4 mm instant fitting (189 banjo) / 1/8 (series 356)
- Port 2: 1/8
- Port 3 (exhaust): M5

(³) Solenoid valve with 1/8 adapter.

(⁴) Refer to leaflets on series 290/390 valves which show the minimum pilot pressure for each version of the product.

(⁵) Exhaust regulator integrated at port 3, M5.

OPTIONS

- Explosionproof enclosures for use in zones 1/21-2/22, categories 2-3 to ATEX Directive 94/9/EC (see "Explosionproof solenoids" section)
- Plug with visual indication and peak voltage suppression or with cable length of 2 m (see Solenoids, Coils & Accessories section)
- M5 exhaust regulator to fit port 3, catalogue number: **34600380**

INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- Pipe connection identifier is G = G (ISO 228/1)
- Installation/maintenance instructions are included with each valve

ORDERING EXAMPLES:

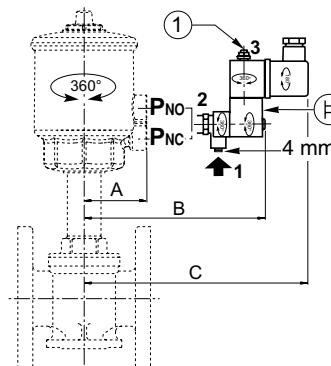
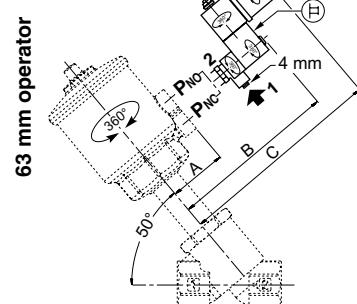
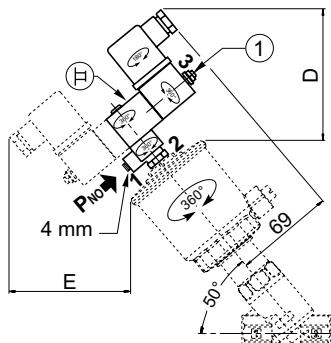
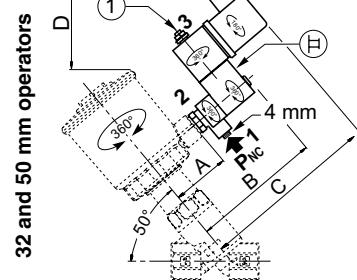
18900032	230V / 50 Hz
SC G356B053 VMS	24V / DC
SC G356B053 VMS	230V / 50 Hz
catalogue number	voltage

DIMENSIONS (mm), WEIGHT


TYPE 01

Pilot 189/banjo
Epoxy moulded
IEC 335 / DIN 43650
IP65

18900032 - 18900047



type	prefix option	pilot	operator diameter	A	B	C	D		E	pilot inlet port	weight ⁽¹⁾
							NC	NO			
01	-	189/banjo series	32 mm	27	78,5	113,5	79	102	85	P _{NC}	0,175
			50 mm	43	93	149	67	83	74		
			63 mm	50,5	100	156	53	62	-		
02	SC	356 series	32 mm	27	68	102	65	90	85	P _{NC}	0,165
			50 mm	43	84	118	56	80	74		
			63 mm	50,5	91,5	125,5	41	59	-		

⁽¹⁾ including adapter connection (series 356), coil and connector.

① Exhaust regulator location