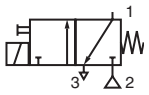
SOLENOID PILOT VALVES

for 298/398 valves, 80 & 100 mm operators
direct operated
1/8

NC



3/2
Series
356

FEATURES

- *Compact design and low weight enabling easy installation on all series 298 & 398 valves with dia. 80 & 100 mm operators*
- *Standard manual operator allows for easy installation and maintenance*
- *Quick disassembly of core tube for easy maintenance of internal parts*
- *Standard disc seal made of FPM suitable for a wide range of operating temperatures and compatible with many fluids*
- *AC/DC interchangeability of the solenoid without disassembling the valve*
- *Compliance with UL and CSA standards*
- *The solenoid valves satisfy all relevant EC Directives*

GENERAL

Max. pilot pressure See «SPECIFICATIONS» [1 bar =100 kPa]
Maximum viscosity 40 cSt (mm²/s)
Response time See page V402-5

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

D

MATERIALS IN CONTACT WITH FLUID

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

Body Brass or AISI 316 SS
Core tube Stainless steel
Core and plugnut Stainless steel
Springs Stainless steel
Seats Brass or stainless steel
Seals FPM
Shading coil Copper

ELECTRICAL CHARACTERISTICS

Coil insulation class F
Connector Spade plug (cable Ø 6-7 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: inrush ~ (VA)	holding ~ (VA)	holding ~ (W)	hot/cold = (W)	operator ambient temperature range (TS) (C°)	replacement coil ~ 230 V/50 Hz	replacement coil = 24 V DC	type (1)
SC	12	6	4	4,5 / 5,5	-10 to + 60	43005429	43005413	02

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

SPECIFICATIONS

pipe size	orifice size 2→1	orifice size 1→3	flow coefficient Kv 2→1 (m³/h)	flow coefficient Kv 2→1 (l/min)	flow coefficient Kv 2→3 (m³/h)	flow coefficient Kv 2→3 (l/min)	operating pressure differential (bar) min. (4)	max. (PS) air (✳) ~	max. (PS) air (✳) =	max. (PS) water (✳)		power coil (W) ~	power coil (W) =	catalogue number with maintained manual operator
G	(mm)	(mm)												~/=
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	5,5	**SCG356A059VMS** (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	5,5	**SCG356A060VMS** (3)

(2) Pipe size:
- Port 1 and 2: 1/8 (series 356)
- Port 3 (exhaust): M5

(3) Solenoid valve with 1/8 adapter.
(4) Refer to leaflets on series 298/398 valves which show the minimum pilot pressure for each version of the product.

OPTIONS

- Explosionproof enclosures for use in zones 1/21-2/22, categories 2-3 to ATEX Directive 94/9/EC (see “Explosionproof solenoids” section)
- Class H coil, max. ambient temperature +75°C, prefix HT, example: SCHTG356A059VMS
- M5 flow control regulator to fit port 3, catalogue number: **34600380**
- 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
- Pipe connection identifier is G = G (ISO 228/1)
- Installation/maintenance instructions are included with each valve

ORDERING EXAMPLES:

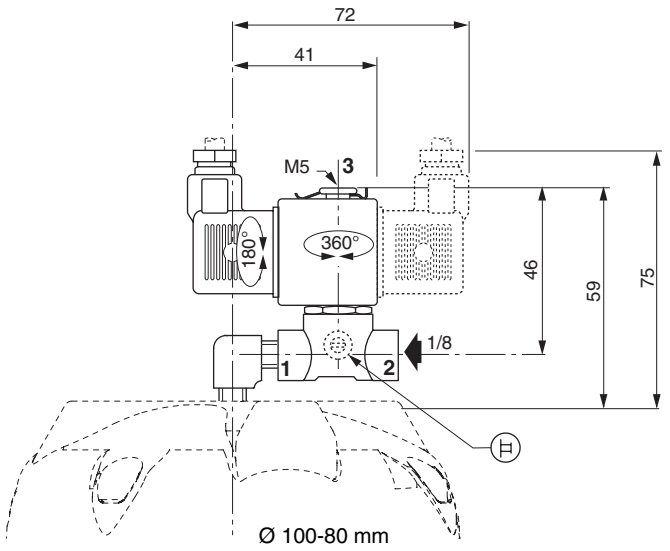
SC G356A059 VMS 24V / DC
SC G356A060 VMS 230V / 50 Hz

voltage

catalogue number

DIMENSIONS (mm), WEIGHT (kg)

TYPE01
Prefix “SC” Solenoid
Pilot 356
IEC 335 / DIN 43650
IP65
SCG356A059VMS - SCG356A060VMS



type	prefix option	pilot	operator diameter	A	B	C	D		E	weight (1)
							NC	NO		
01	SC	356 series	80 mm	27	68	99	63	88	83	0,155
			100 mm	50,5	91,5	122,5	39	57	-	

(1) Including adapter, coil and connector.

(1) Flow control regulator location