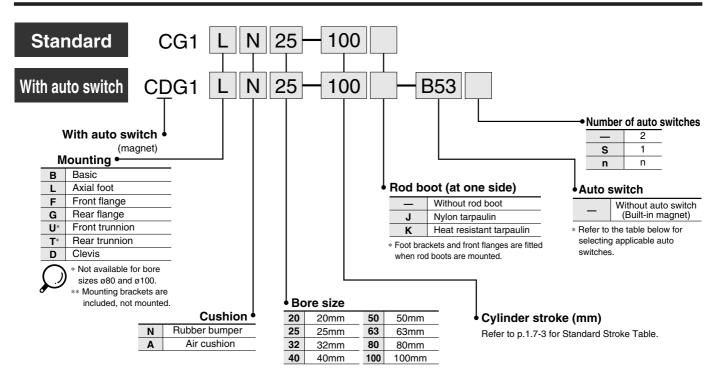
Standard: Double Acting Single Rod

Series CG1

ø20, ø25, ø32, ø40, ø50, ø63, ø80, ø100

How to Order



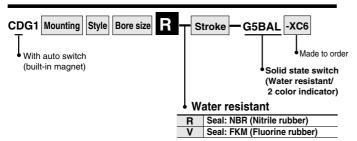
Applicable Auto Switches/Refer to p.5.3-2 for further information on auto switch.

pecial function	Electrical entry	Indicator	Wiring				Auto switch model			d wi	<u> </u>		A I	
	Onlay		Wiring (Output)	DC		AC	Applicable bore size		0.5	3	5	None	Applicable load	
	Ortary	lu Lu					ø20 to ø63	ø20 to ø100	(–)	(L)	(Z)	(N)	load	
	Grommet	Yes	3 wire (NPN)		5V	_	C76	_	•	•	_	_	IC	_
				24V	12V		_	B53	•	•	•	_	_	PLC
						200V or less		B54	•	•	•		IC Relay PLC	Polov
								B64	•	•	_			
		Yes	2 wire		12V	100V	C73		•	•	•			
		No			5V, 12V	100V or less	C80		•	•	_	_		
	Connector	Yes			12V		C73C		•	•	•	•		
		No			5V, 12V	24V or less	C80C	_	•	•	•	•		
gnostic indication (2 color)	Grommet	Yes			_	—		B59W	•	•	_			
	Grommet		3 wire (NPN) 3 wire (PNP)	-	5V, 12V		H7A1	G59	•	•	0		IC	
							H7A2	G5P	•	•	0	_		
			2 wire		12V		H7B	K59	•	•	0			
	Connector						H7C		•	•	•	•		
		Yes	` '	24V	5V, 12V		H7NW	G59W	•	•	0	_ IC	IC	Relay
Diagnostic indication (2 color) Water resistant (2 color) With times			3 wire (PNP)				H7PW	G5PW		•	0			
			2 wire		12V		H7BW	K59W	•	•	0		_	. 20
ter resistant (2 color)							H7BA	G5BA	_	•	0			
With timer Diagnostic output (2 color) Latch with diagnostic output (2 color)			3 wire (NPN)		5V, 12V			G5NT	_	•	_		IC	
			4 wire				H7NF	G59F	•	•	0		_	
			(NPN)		_		H7LF	_	•	•	0	_		
u(g	gnostic indication (2 color) gnostic indication (2 color) er resistant (2 color) With timer nostic output (2 color) with diagnostic output (2 color) re length 0.5i	Connector Connector Grommet Connector Connector Connector Grommet Connector Grommet Connector Grommet Connector Grommet Connector Grommet Connector Grommet With timer nostic output (2 color) with diagnostic output	No Yes No No Yes No No Yes No No Yes No No No Yes No No No Yes No No No No No No No N	No Yes 2 wire No Yes No No Yes No No No No No No No N	No Yes 2 wire 24V	No Yes 2 wire 24V 12V 5V, 12V 12V	No 2 wire 24V 12V 100V or less 12V	No Yes No No Yes No No Yes No No Yes No No Yes No No No Yes No No Yes No No No Yes No No No Yes No No No No No No No N	No Yes No Yes No No Yes No No Yes No Yes No No No Yes No No No No No No No N	Connector No Yes 2 wire 24V 12V 100V C73 —	Connector No Yes No Yes No No Yes No No Yes No No Yes No No No Yes No No No No Yes No No No No No No No N	Connector No Yes No Yes No Yes No Yes No Yes No No Yes No No Yes No Yes No No No Yes No No No Yes No No No No No No No N	No Yes No Yes No No No No No No No N	No Yes 2 wire No 24V 100V C73

^{*} Solid state switches marked with " \bigcirc " are manufactured upon receipt of order.

Series CG1

Water Resistant



Ideal for use in a machine tool environment exposed to coolant mist. Also suited for use in areas in which water splashes, such as food processing equipment or car washers.

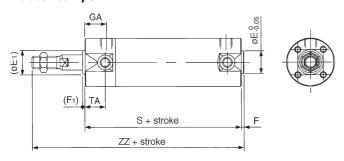
Specifications

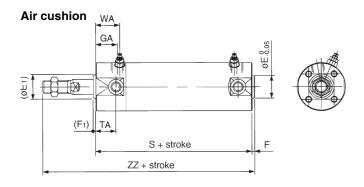
Action	Double acting/Single rod					
Bore size (mm)	ø32, ø40, ø50, ø63, ø80, ø100					
Cushion	Rubber bumper/Air cushion					
Auto switch mounting method	Band mounting					
Made to order	Material of the piston rod and rod end nut is stainless steel. (-XC6)					

* Other specifications are the same as the standard model

Dimensions

Rubber bumper





									(mm)
Bore (mm)	(E ₁)	E*	(F ₁)	F*	GA	S	TA	WA	ZZ
32	17	18	2	2	18	77 (85)	17	20	119 (127)
40	21	25	2	2	19	84 (93)	18	21	136 (145)
50	26	30	2	2	21	97 (109)	20	23	157 (169)
63	26	32	2	2	21	97 (109)	20	23	157 (169)
80	32	40	3	3	28	116 (130)	_	30	190 (204)
100	37	50	3	3	29	117 (131)	_	31	191 (205)

* These dimensions and other dimensions not indicated here are the same as standard. Note) (): Long stroke

A Precautions

Be sure to read before handling. Refer to p.0-39 to 0-46 for Safety Instructions and common precautions.

Precautions on handling

Marning

- ① Do not operate the cushion valve in the fully closed or fully opened state.
- Using it in the fully closed state will cause the cushion seal to be damaged. Using it in the fully opened state will cause the piston rod assembly or the cover to be damaged.
- ② Operate within the specified cylinder speed.
- Failure to do so will damage the cylinder and the seals.

⚠ Caution

- ① Do not use the air cylinder as an air-hydro cylinder. This will cause an oil leak.
- ② Install without twisting the bellows.
- If the cylinder is installed with its bellows twisted, it could damage the bellows.

Disassembly/Replacement

⚠ Caution

- 1) Do not replace the bushings or the cushion seals.
- The bushings and the cushion seals are press-fit. To replace them, they must be replaced together with the cover assembly.
- ② To replace a seal, apply grease to the new seal before installing it.
- If the cylinder is put into operation without applying grease to the seal, it could cause the seal to wear significantly, leading to premature air leakage.
- ③ Do not replace One-touch fittings.
- Because pipe fittings are press-fit, they must be replaced together with the cover assembly.
- 4) Those with a bore of ø50 or more cannot be disassembled.
- When disassembling a cylinder with a bore of ø20 to ø 40, use a vise or the like to hold the wrench flats portion of the tube cover or the rod cover on one side, while placing a wrench or an adjustable wrench on the other side to loosen and remove the cover. To replace, tighten it an additional 2... from the installed position. (Those with a bore of ø50 or more cannot be disassembled because they have been tightened with greater torque. If they must be disassembled, contact SMC.