

Standard: Double Acting Double Rod

Series CG1W

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

How to Order

Standard

CG1W L N 25 — 100

With auto switch

CDG1W L N 25 — 100 — B53

Number of auto switches

—	2
S	1
n	n

Applicable auto switch

—	Without auto switch (Built-in magnet)
---	---------------------------------------

Mounting

B	Basic
L	Axial foot
F	Front flange
U*	Front trunnion

* Not available for bore sizes ø80 and ø100.
** Mounting brackets are included, not mounted.

Cushion

N	Rubber bumper
A	Air cushion

Bore size

20	20mm	50	50mm
25	25mm	63	63mm
32	32mm	80	80mm
40	40mm	100	100mm

Double acting/Double rod

With auto switch (magnet)

Applicable auto switch

Rod boot

—		Without rod boot
One side	J	Nylon tarpaulin
Both sides	K	Heat resistant tarpaulin
Both sides	JJ	Nylon tarpaulin
Both sides	KK	Heat resistant tarpaulin

* In case of foot brackets and front flanges, rod boots are mounted when shipped.

Cylinder stroke (mm)

Refer to p.1.7-15 for Standard Stroke Table.

* Mounting accessories are not mounted, should be order separate. Please refer order keys in next pages.

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

Style	Special function	Electrical entry	Indicator	Wiring (output)	Load voltage		Auto switch model		Lead wire (m)*				Applicable load			
					DC	AC	Applicable bore size		0.5 (—)	3 (L)	5 (Z)	None (N)				
							ø20 to ø63	ø20 to ø100								
Reed switch	—	Grommet	Yes	3 wire (NPN)	—	5V	—	C76	—	●	●	—	—	IC	—	
				2 wire	24V	12V	—	—	B53	●	●	●	—	—		Relay PLC
							200V or less	—	B54	●	●	●	—			
			—				B64	●	●	—	—					
			100V			C73	—	●	●	●	—					
			5V, 12V			100V or less	C80	—	●	●	—	—	IC			
		12V	—			C73C	—	●	●	●	●	—				
		Connector	No	5V, 12V	24V or less	C80C	—	●	●	●	●	—	IC			
				—	—	B59W	●	●	—	—	—					
				Solid state switch	Diagnostic indication (2 colour)	Grommet	Yes	3 wire (NPN)	5V, 12V	—	H7A1	G59	●	●	○	—
3 wire (PNP)	H7A2							G5P			●	●	○	—		
2 wire	H7B	K59	●					●			○	—				
Connector	H7C	—	●			●		●			●	—				
	Grommet	3 wire (NPN)	5V, 12V			H7NW		G59W			●	●	○	—	IC	
		3 wire (PNP)				H7PW		G5PW			●	●	○	—		
2 wire		H7BW			K59W	●	●	○	—	—						
Water resistant (2 colour)		H7BA			G5BA	—	●	○	—	—						
		With timer			—	G5NT	—	●	○	—	—					
		Diagnostic output (2 colour)			Grommet	Yes	4 wire (NPN)	5V, 12V	H7NF	G59F	●	●	○	—	IC	
	Latch with diagnostic output (2 colour)		H7LF	—					●	●	○	—	—			

*Lead wire length 0.5m.....— 3m.....L e.g.) C73C 5m.....Z C73CL None.....N e.g.) C73CZ C73CN

*Solid state switches marked with "○" are manufactured upon receipt of order.

Standard: Double Acting Double Rod *Series CG1W*



Specifications

Bore size (mm)	20	25	32	40	50	63	80	100
Action	Double acting/Double rod							
Lubrication	Non-lube							
Fluid	Air							
Proof pressure	1.5MPa							
Max. operating pressure	1.0MPa							
Min. operating pressure	0.05MPa							
Ambient and fluid temperature	Without auto switch: -10°C to +70°C (No freezing)							
	With auto switch: -10°C to +60°C (No freezing)							
Piston speed	50 to 1000mm/s						50 to 700mm/s	
Stroke tolerance	Up to 1000 ^{+1.4} ₀ mm,						Up to 1000 ^{+1.4} ₀ mm	
	Up to 1200 ^{+1.8} ₀ mm						Up to 1500 ^{+1.8} ₀ mm	
Thread tolerance	JIS class 2							
Cushion	Rubber bumper/Air cushion							
Mounting*	Basic, Axial foot, Front flange, Front trunnion							



* Front trunnion style is not available for bore sizes ø80 and ø100. ** No freezing

Accessories

Mounting		Basic	Axial foot	Front flange	Front trunnion
Standard	Rod end nut	●	●	●	●
	Single knuckle joint	●	●	●	●
	Double knuckle joint** (With pins)	●	●	●	●
	Pivot bracket*	—	—	—	●*
	Rod boot	●	●	●	●

* Pivot bracket is not available for bore size ø80 and ø100.

** Pins and snap rings for double knuckle joint are included, not mounted.

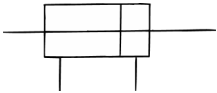
Stroke

Bore size(mm)	Standard stroke (mm) ⁽¹⁾	Long stroke (mm)	Max. stroke
20	25, 50, 75, 100, 125, 150, 200	201 to 350	1500
25	25, 50, 75, 100, 125, 150, 200 250, 300	301 to 400	
32		301 to 450	
40		301 to 800	
50/63		301 to 1200	
80		301 to 1400	
100		301 to 1500	

Note 1) Other intermediate strokes can be manufactured upon receipt of order. Spacers are not used for the intermediate strokes. Refer to p.1.7-17 to 1.7-19 for dimensions.

Note 2) Long stroke applies to the axial foot style and the front flange style. If other mounting brackets are used, or the length exceeds the long stroke limit, the stroke should be determined based on the stroke selection table in the technical data.

JIS symbol



Made to Order

Refer to p.5.4-1 for made to order products of series CG1.

Mounting Bracket

Refer to p.1.7-19 for part numbers of the mounting brackets.

Auto Switch Mounting Band

Refer to p.1.7-19 for part numbers of the mounting bands.

With Auto Switch

The auto switch can be mounted. Refer to p.1.7-12 to 1.7-14 for the details.

Rod Boot Materials

Symbol	Material	Max. operating temp
J	Nylon tarpaulin	70°C
K	Heat resistant tarpaulin	110°C*

* Maximum ambient temperature for the rod boot only.