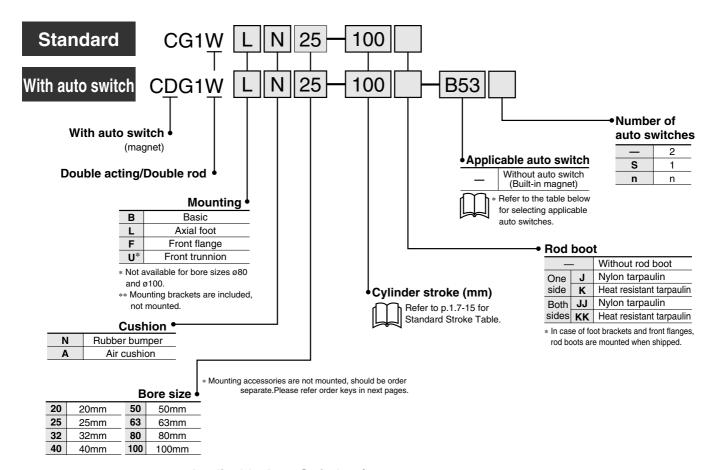
Standard: Double Acting Double Rod

Series CG1W

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.

	0		tor	NATion of		Load vol	tage	Auto swit	ch model	Lea	d wir	re (m)*			
Style	Special	Electrical entry	Indicator	Wiring (output)		DC	AC	Applicable	bore size	0.5	3		None		icable ad	
	function	ony	Jul	(DC	AC	ø20 to ø63	ø20 to ø100	(-)	(L)	(Z)	(N)	1000		
				3 wire (NPN)	_	5V		C76	_	•	•	_	_	IC	_	
			Yes						B53	•	•	•	-	_	PLC	
ے	_	Grommet				12V	200V	_	B54	•	•	•	-			
돭			No			1	or less		B64	•	•	_	_	_		
Reed switch			Yes	2 wire	24V		100V	C73		•	•	•	_			
8			No	2 WIIE 240	5V, 12V 100V or less	C80	_	•	•	_	_	IC	Relay PLC			
Œ		Connector	Yes			12V —	_	C73C	_	•	•	•	•	_		
		Connector	No			5V, 12V	24V or less	C80C	_	•	•	•	•	IC		
	Diagnostic indication (2 colour)	Grommet	Yes			_	_	1	B59W	•	•	_	_	_		
	_			3 wire (NPN)		5V, 12V		H7A1	G59	•	•	0	_	IC		
		Grommet		3 wire (PNP)		3V, 12V		H7A2	G5P	•	•	0	_	10		
				2 wire	12V		H7B	K59	•	•	0	_				
뎙		Connector		2 WIIG	z wire			H7C	_	•	•	•		•		
Solid state switch				3 wire (NPN)		5V, 12V		H7NW	G59W	•	•	0	_	IC		
ate	Diagnostic indication (2 colour)		Yes	3 wire (PNP)	24V	3V, 12V	_	H7PW	G5PW	•	•	0	_	10	Relay PLC	
캻	(2 colour)			2 wire		12V		H7BW	K59W	•	•	0	_		FLC	
틢	Water resistant (2 colour)	Grommet		Z WII G		120		H7BA	G5BA	_	•	0	_			
σ	With timer			3 wire (NPN)		5V, 12V		_	G5NT	_	•	0	_	IC		
	Diagnostic output (2 colour)			4 wire		5V, 12V		H7NF	G59F	•	•	0	_			
	Latch with diagnostic output (2 colour)			(NPN)				H7LF	_	•	•	0	_	_		
*Lead	wire length 0.5m	0,	C73C		_	e.g	J.) C73CZ									
	3mL	(C73C	L None	N		C73CN	1								

^{*}Solid state switches marked with "O" 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)								
Ambient and fluid temperature	With auto switch: -10°C to +60°C (No freezing)								
Piston speed			50 to	1000mr	n/s		50 to 700mm/s		
Otrodos tolores e			Up to	1000+1	⁴ mm,		Up to 100	00 ^{+1.4} mm	
Stroke tolerance								00 ^{+1.8} 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	•	•	•	•
Option	Double knuckle joint** (With pins)	•	•	•	•
	Pivot bracket*	_	_	_	•*
	Rod boot	•	•	•	•

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

Stroke

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

Made to Order

JIS symbol

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.



CJ₁

CJP CJ₂

CM₂

C85

C76

CG₁

MB

MB₁

CP95

C95 C92

CA₁

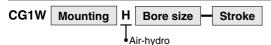
CS1

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

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.

Standard: Double Acting Double Rod Series CG1W

Air-hydro



A low hydraulic pressure cylinder used at a pressure of 1.0MPa or below. Through the concurrent use of a CC series air-hydro unit, it is possible to operate at a constant or low speed or to effect an intermediate stop, just like a hydraulic unit, while using pneumatic equipment such as a valve.

Specifications

Style	Air-hydro Cylinder
Bore size (mm)	ø20, ø25, ø32, ø40, ø50, ø63
Action	Double acting
Fluid	Turbine oil
Proof pressure	1.5MPa
Max. operating pressure	1.0MPa
Min. operating pressure	0.18MPa
Piston speed	15 to 300mm/s
Cushion	None
Ambient and fluid temperature	+5 to 60°C
Thread tolerance	JIS class 2
Stroke tolerance	Up to $1000^{+1.4}_{0}$ mm, Up to $1200^{+1.8}_{0}$ mm
Mounting	Basic, Axial foot, Front flange, Front trunnion.

^{*} Auto switch can be mounted.

Bore size	ø20	ø25	ø32	ø40	ø50	ø63
S	70	70	72	80	95	95
ZZ	140	150	152	180	211	211

Other dimensions are the same as double rod standard (p.1.7-18).

Copper Free

20-CG1W	Mounting	Cushion	Bore size	Stroke
Copper free)			

This cylinder eliminates any influences of copper ions or fluororesins on colour CRTs. Copper materials have been nickel plated or replaced with non-copper materials to prevent the generation of copper ions.

Specifications

Bore (mm)		ø20, ø25, ø32, ø40, ø50, ø63, ø80, ø100				
Action		Double acting				
Fluid		Air				
Max. operating pro	essure	1.0MPa				
Min. operating pre	ssure	0.05MPa				
Cushion	N	Rubber bumper				
Cushion	Α	Air cushion				
D	ø20 to ø63	50 to 1000mm/s				
Piston speed	ø80, ø100	50 to 700mm/s				
Mounting*		Basic, Axial foot , Front flange, Front trunnion				

 $[\]ast$ Front trunnion style is not available for bore sizes ø80 and ø100. Refer to p.1.7-18 for dimensions.

CJ₁

CJP

CJ₂ CM₂

C85

C76

CG₁

MB

MB₁

CP95

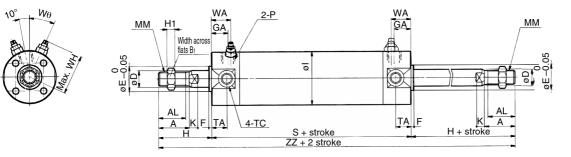
C95

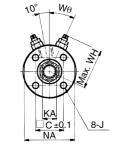
C92

CA₁

CS₁

Basic CG1WBA: With Air Cushion





* Refer to rubber bumper equipped type for rod boot equipped type. (mm)

	(min)															
Bore size (mm)	Standard stroke range (mm)	Long stroke range (mm)	Α	AL	B ₁	С	D	Е	F	GA	Н	H1	I	J	К	KA
20	Up to 200	201 to 350	18	15.5	13	14	8	12	2	12	35	5	26	M4 Depth 7	5	6
25	Up to 300	301 to 400	22	19.5	17	16.5	10	14	2	12	40	6	31	M5 Depth 7.5	5.5	8
32	Up to 300	301 to 450	22	19.5	17	20	12	18	2	12	40	6	38	M5 Depth 8	5.5	10
40	Up to 300	301 to 800	30	27	19	26	16	25	2	13	50	8	47	M6 Depth 12	6	14
50	Up to 300	301 to 1200	35	32	27	32	20	30	2	14	58	11	58	M8 Depth 16	7	18
63	Up to 300	301 to 1200	35	32	27	38	20	32	2	14	58	11	72	M10 Depth 16	7	18
80	Up to 300	301 to 1400	40	37	32	50	25	40	3	20	71	13	89	M10 Depth 22	10	22
100	Up to 300	301 to 1500	40	37	41	60	30	50	3	20	71	16	110	M12 Depth 22	10	26

	- p 15 555									
Bore size (mm)	ММ	NA	Р	S	TA	TC**	ZZ	WA	WH	Wθ
20	M8	24	M5	77	11	M5	147	16	23	30°
25	M10 X 1.25	29	M5	77	11	M6 X 0.75	157	16	25	30°
32	M10 X 1.25	35.5	Rc(PT)1/8	79	11	M8 X 1.0	159	16	28.5	25°
40	M14 X 1.5	44	Rc(PT)1/8	87	12	M10 X 1.25	187	16	33	20°
50	M18 X 1.5	55	Rc(PT)1/4	102	13	M12 X 1.25	218	18	40.5	20°
63	M18 X 1.5	69	Rc(PT)1/4	102	13	M14 X 1.5	218	18	47.5	20°
80	M22 X 1.5	80	Rc(PT)3/8	122	_		264	22	60.5	20°
100	M26 X 1.5	100	Rc(PT)1/2	122		_	264	22	71	20°



Refer to p.1.6-19 for mounting brackets. *Trunnion mounting taps with width across flats NA are not attached for bore sizes ø80 and ø100.



^{*} Auto switch can be mounted.