


# Series 10-/11- 21-/22-CA2

Air cylinder ø40, ø50, ø63

## How to Order



**Clean series**

10	Relief type
11	Vacuum suction type

**Mounting style**

B	Basic style
L	Axial foot style
F	Rod side flange style
G	Head side flange style

**Bore size (mm)**

**Port thread type**

Nil	Rc
TN	NPT
TF	G

**10 - C D A 2 B 40 [ ] - 150 - Y59B [ ]**

**21 - C D A 2 B 40 [ ] - 150 - Y59B [ ]**

**Built-in magnet**

Nil	No
D	With auto switch (Built-in magnet)

**Copper, fluorine and silicon-free + Low particle generation**

21	Relief type
22	Vacuum suction type

**Cylinder stroke (mm)**

**Number of auto switches**

Nil	2 pcs.
S	1 pc.
n	"n" pcs.

**Type of auto switch**

Reed switch	Z7□, A54/A59W
Solid state switch	J51/F5□, Y5□/Y7□

## Model

Model		Bore size (mm)	Port size	Lubrication	Action	Standard stroke (mm)	Auto switch mounting	Cushion
Relief type	10-/21-CA2□40	40	1/4	Non-lube	Double acting, single rod	50, 75, 100, 125, 150, 200, 250, 300, 350, 400, 450, 500	Available	Air cushion
	10-/21-CA2□50	50	3/8					
	10-/21-CA2□63	63						
Vacuum suction type	11-/22-CA2□40	40	1/4					
	11-/22-CA2□50	50	3/8					
	11-/22-CA2□63	63						

Note) Consult SMC for long stroke.

## Specifications

Item	Bore size (mm)	40/50/63
<b>Proof pressure</b>		1.5MPa
<b>Maximum operating pressure</b>		1.0MPa
<b>Minimum operating pressure</b>		0.05MPa
<b>Ambient and fluid temperature</b>		Without auto switch: -10°C to 70°C With auto switch: -10°C to 60°C (No freezing)
<b>Piston speed</b>		50 to 400 mm/s
<b>Stroke length tolerance</b>		Up to 250st <sup>+1.0</sup> <sub>0</sub> mm 251 to 1000st <sup>+1.4</sup> <sub>0</sub> mm
<b>Mounting style</b>		Basic style / Axial foot style / Rod side flange style / Head side flange style
<b>Grease</b>		10-/11-: Fluorine grease 21-/22-: Lithium soap based grease
<b>Particle generation grade</b> (Refer to front matter pages 13 to 22 for details.)		10-: Grade 2, 21-: Grade 3 11-/22-: Grade 1

## Suction flow rate of vacuum suction type (Reference values)

Bore size	Suction flow rate ℓ/min (ANR)
40	10
50/63	20