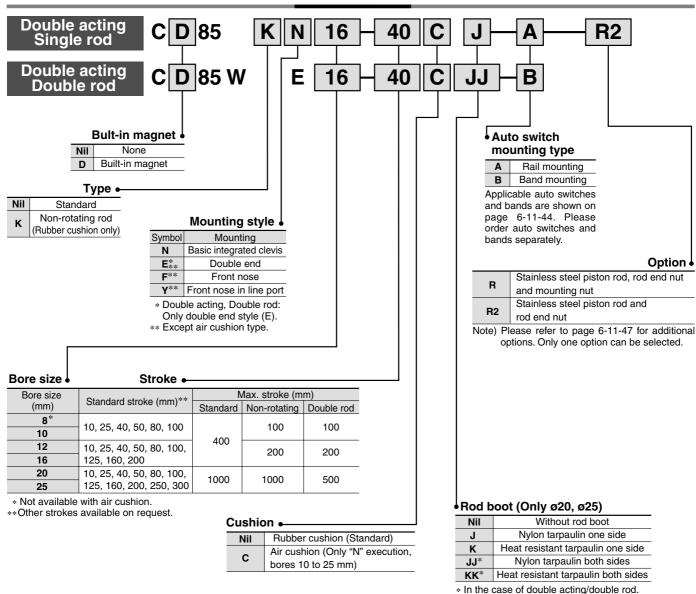
ISO Cylinder: Standard/Non-rotating Type Double Acting, Single/Double Rod

Series C85

ø8, ø10, ø12, ø16, ø20, ø25





Mounting Bracket Part No.

mounting Eraonori arrivo.							
Bore size (mm) Mounting bracket		8	10	12	16	20	25
Foot (1 pc.)		C85L10A		C85L16A		C85L25A	
Mounting bracket	Foot (2 pcs. with mounting nut 1 pc.)	C85L10B		C85L16B		C85L25B	
	Flange	C85F10		C85F16		C85F25	
	Trunnion	C85T10		C85T16		C85T25	
	Clevis	C85	C85C10		C85C16		C85C25
	Single knuckle joint	KJ4D		KJ6D		KJ8D	KJ10D
Accessory	Double knuckle joint	GKM4-8		GKM6-10		GKM8-16	GKM10-20
	Floating joint	JA10-4-070		JA15-	6-100	JA20 -8-125	JA30 -10-125

Replacement Parts For Standard Cylinders

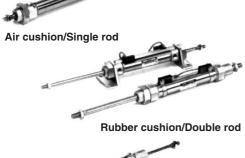
Bore size (mm)	Part no.	Note		
20	C85-20PS	Every set includes: n°1 rod seal		
25	C85-25PS	n°1 seal retaining washer n°1 retaining ring		

For Non-rotating Cylinders ("K")

Bore size (mm)	Part no.	Note
20	C85K-20PS	Every set includes: n°1 rod seal
25	C85K-25PS	n°1 seal retaining washer n°1 retaining ring

ISO Cylinder: Standard/Non-rotating Type Double Acting, Single/Double Rod Series C85

Rubber cushion/Single rod



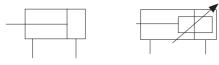


Specifications

Bore size (mm)		8	10	12	16	20	25		
Piston rod dia. (mm)		4	4	6	6	8	10		
Piston rod thread		M4 x 0.7	M4 x 0.7	M6 x 1	M6 x 1	M8 x 1.25	M10 x 1.25		
Port size		M5 x 0.8	M5 x 0.8	M5 x 0.8	M5 x 0.8	G 1/8	G 1/8		
Action		Double acting, Single/Double rod							
Fluid			Air						
Proof pressure		1.5 MPa							
Max. opera	ting	pressure	1.0 MPa						
Min. operat	ting	Spring return				0.05 MPa			
pressure		Spring extended	0.1 MPa	0.08 MPa		0.05 MPa	0.08 MPa		
Ambient and fluid temperature		−20 to 80°C (Built-in magnet: −10 to 60°C)							
Cushion	Cushion		Rubber cushion, Air cushion (Except Ø8) (Non-rotating: Rubber bumper only)						
Lubrication		Not required. Use turbine oil Class 1 ISO VG32, if lubricated.							
Rod boot H		ylon rpaulin	_				Max. ambient temperature 60°C		
		eat resistant rpaulin	_				Max. ambient temperature 110°C*		
Piston speed				50 to 15	00 mm/s				
Allowable kinetic		Rubber cushion	0.02 J	0.03 J	0.04 J	0.09 J	0.27J	0.4 J	
energy		Air cushion	_	0.17 J	0.19 J	0.4 J	0.66 J	0.97 J	
Non-rotating accuracy		±1° 30'	±1° 30′	± 1°	±1°	±0° 42'	±0° 42'		
Stroke tolerance (mm)		0/+1			0/+1.4				

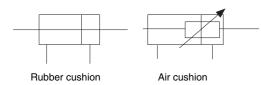
^{*} Maximum ambient temperature of rod boots only.

JIS Symbol Double acting, Single rod



Double acting, Double rod

Rubber cushion



Air cushion

Non-rotating rod: Double acting, Single rod



20/	25
207	
J3)	258(286)
3	18.4
95	
210	
90	
75	
85	
	70
	100
	70
5	.8 9: 21(9)

3.2/10 mm of stroke

(): In the case of air cushion



CJ1 **CJP**

CJ₂

CM₂

CG₁

MB

MB1

CA₂ CS₁

C76

C85

C95

CP95

NCM NCA

D--X

20-Data

High Temperature

XB6

C85 Mounting Bore size - Stroke - XB6

8, 10, 12, 16, 20, 25 mm N, E, F, Y

Standard cylinder seals are replaced with special ones and other modifications are made in order to enable the cylinder to operate at a high ambient temperature (-10 to 150°C).

Possible applications:

- Bore size 8 to 20 mm
- Rubber bumper
- Without magnets (Auto switches cannot be used at high temperature.)
- Single rod Double acting Double rod Double acting (W)

Dimensions unchanged

Specifications

Type	Air cylinder		
Applicable size	ø8, ø10, ø16, ø20, ø25 mm		
Action	Double acting		
Ambient temperature range	−10 to 150°C		
Piston speed	50 to 500 mm/s		
Cushion	Rubber bumper		
Material	Seal: Fluorocarbon rubber		
iviateriai	Wear ring: Fluorocarbon resin		
Grease	Fluorinated grease		

Note) Contact SMC for non-rotating type.

3 Low Speed XB9

C85 Mounting Bore size - Stroke - XB9 20, 25 mm

The cylinder does not generate any stick-slip phenomenon even at the rated low speed of 10 to 50 mm/s.

All strokes drive at a constant speed smoothly.

Possible applications:

- Bore size 20 and 25 mm
- Rubber bumper type only
- With or without magnets
- Single rod Double acting

Dimensions unchanged

Specifications

Type	Air cylinder
Applicable size	ø20, ø25 mm
Action	Double acting
Piston speed	10 to 50 mm/s
Cushion	Rubber bumper

Note) Contact SMC for non-rotating type.

2 Low Temperature

XB7

C85 Mounting Bore size - Stroke - XB7 N, E, F, Y 20, 25 mm

Standard cylinder packing are replaced with special ones and other modifications are made in order to enable the cylinder to operate at a low ambient temperature (-55 to 70°C).

Possible applications:

- Bore size 20 and 25 mm
- Rubber bumper
- Without magnets (Auto switches cannot be used at low temperature.)
- Single rod Double acting Double rod Double acting (W)

Dimensions unchanged

Specifications

Туре	Air cylinder		
Applicable size	ø20, ø25 mm		
Action	Double acting		
Ambient temperature range	−55 to 70°C		
Cushion	Rubber bumper		
Material	Seal: Low nitrile rubber		
ivialerial	Wear ring: Fluorocarbon resin		
Grease	Fluorinated grease		

Note) Contact SMC for non-rotating type.

4 Heavy-duty Scraper

XC4

C85 Mounting Bore size - Stroke - XC4

A heavy-duty scraper is used as wiper ring. Ideal for severe applications where the cylinder is exposed to dust, earth and sand. Applicable to casting machines, construction machines, industrial vehicles, etc.

Possible applications:

- Bore size 20 and 25 mm
- Rubber bumper type only
- With or without magnets
- Single rod Double acting Double rod Double acting (W)

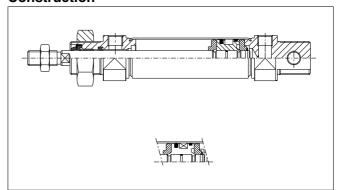
Dimensions unchanged

Specifications

Туре	Air cylinder
Applicable size	ø20, ø25 mm
Max. operating pressure	1 MPa (10 bar)
Min. operating pressure	0.08 MPa (0.8 bar)
Cushion	Rubber bumper
Wiper ring	NBR (SCB)

Note) Not applicable for non-rotating type.

Construction





CJ₁

CJP CJ₂

CM₂

CG₁

MB

MB1

CA₂

CS₁

C76

C85 C95

CP95

NCM

NCA D-

-X

20-

Data