

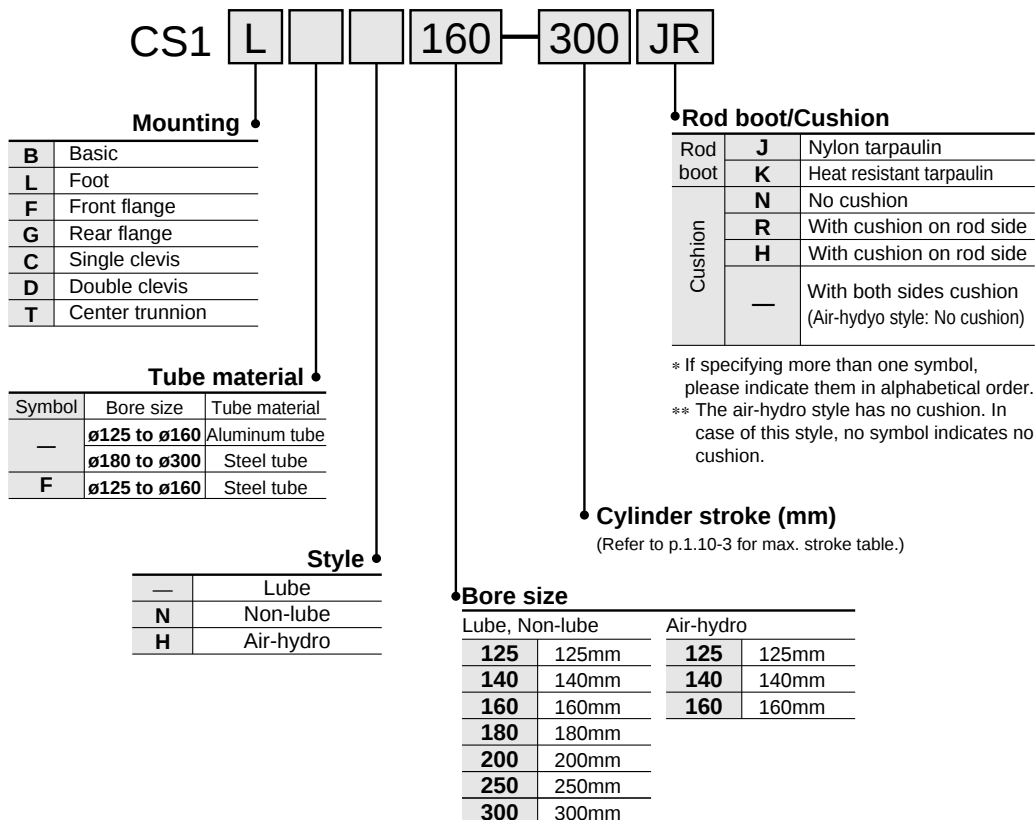
Air Cylinder/Standard

Series CS1

Lube, Non-lube: ø125, ø140, ø160, ø180, ø200, ø250, ø300

Air-hydro: ø125, ø140, ø160

How to Order



Mounting Bracket Part No.

Bore size (mm)	125	140	160	180	200	250	300
Foot*	CS1-L12	CS1-L14	CS1-L16	CS1-L18	CS1-L20	CS1-L25	CS1-L30
Flange	CS1-F12	CS1-F14	CS1-F16	CS1-F18	CS1-F20	CS1-F25	CS1-F30
Single clevis	CS1-C12	CS1-C14	CS1-C16	CS1-C18	CS1-C20	CS1-C25	CS1-C30
Double clevis**	CS1-D12	CS1-D14	CS1-D16	CS1-D18	CS1-D20	CS1-D25	CS1-D30

Refer to p.1.10-7 for How to Order Auto Switches Style.



* Order 2 foot brackets for one cylinder.

** When ordering the double clevis, the clevis pin and the cotter pin (2 pcs.) are attached.

Air Cylinder/Standard *Series CS1*



Specifications

Style	Lube, Non-lube	Air-hydro
Fluid	Air	Turbine oil
Proof pressure	1.57MPa	
Max. operating pressure	0.97MPa	
Min. operating pressure	0.05MPa	0.06MPa
Piston speed	50 to 500 mm/s	0.5to 200 mm/s
Cushion	With	Without
Ambient and fluid temperature	0 to 70°C (No freezing), Air-hydro: 5 to 60°C	
Thread tolerance	JIS class 2	
Stroke length tolerance (mm)	250 or less: $^{+1.0}_0$, 251 to 1,000: $^{+1.4}_0$, 1,001 to 1,500: $^{+1.8}_0$ 1501 to 2000: $^{+2.2}_0$, 2001 to 2400: $^{+2.6}_0$	
Mounting	Basic, Foot, Front flange, Rear flange, Single clevis, Double clevis, Center trunnion	

CJ1

CJP

CJ2

CM2

C85

Accessories

Mounting		Basic	Foot	Front flange	Rear flange	Single clevis	Double clevis	Center trunnion
Standard	Clevis pin, Cotter pin	—	—	—	—	—	●	—
	Rod end nut	●	●	●	●	●	●	●
Accessory	Single knuckle joint	●	●	●	●	●	●	●
	Double knuckle joint (Knuckle pin, Cotter pin)	●	●	●	●	●	●	●
	Rod boot	●	●	●	●	●	●	●

CG1

MB

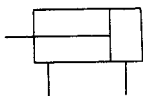
C95

CA1

CS1

* Refer to p.1.10-19 in case of using rod end nut together with double knuckle joint.

JIS system Double acting style



Made to Order

Refer to p.5.4-1 for made to order specifications for series CS1.

Max. Stroke

(mm)

Tube material		Aluminum alloy		Carbon steel tube	
Mounting bracket	Bore	Basic Rear flange Single clevis Double clevis Center trunnion	Foot Front flange	Basic Rear flange Single clevis Double clevis	Foot Front flange
	125	1000 or less	1400 or less	1000 or less	1600 or less
	140	1000 or less	1400 or less	1000 or less	1600 or less
	160	1200 or less	1400 or less	1200 or less	1600 or less
	180	—	—	1200 or less	2000 or less
	200	—	—	1200 or less	2000 or less
	250	—	—	1200 or less	2400 or less
	300	—	—	1200 or less	2400 or less

Second Class Pressure Vessel

In case of exceeding the following strokes, the cylinder is in the scope of the second class pressure vessel.

Bore size (mm)	Stroke (mm)
180	1,569
200	998
250	813
300	564

Rod Boot Materials

Symbol	Material	Max. ambient temp.
J	Nylon tarpaulin	60°C
K	Heat resistant tarpaulin	110°C*

* Max. ambient temperature for the rod boot itself.