



To Use This Product Safely

Be sure to read this before use.

For general cylinder information, see Intro P. 41, and for cylinder switches, see P. 1026.

Individual Precautions: Large Bore Size Cylinder SCS2 Series

During Design / Selection

1. Common

Caution

■ Inspection of Type 2 pressure vessels

Based on the Ordinance of the Ministry of Health, Labour and Welfare, cylinders falling under the following categories must undergo inspection by the Japan Boiler Association.

- ① Cylinders with a rated pressure exceeding 0.2 MPa and an internal volume exceeding 0.04 m³
- ② Cylinders with a rated pressure exceeding 0.2 MPa, a cylinder Bore Size of 200 mm or more, and a body length (cylinder tube length) of 1000 mm or more

$$V = \frac{D^2 \times S \times 3.14}{4 \times 10^9}$$

V: Cylinder capacity (m³)
D: Bore size (mm)
S: Body length (cylinder tube length) (mm)

Stroke subject to Type 2 pressure vessel inspection	
Bore Size	Stroke
ø160	1948 or more
ø180	1526 or more
ø200	946 or more
ø250	752 or more

■ With check valve in cushion part (C2)

If the load is large, the delay in cylinder starting time will increase. If you want to reduce the starting time, please use the model with a check valve in the cushion part (C2).

■ Heat resistant type (SCS2-T)

Please consult us if the ambient temperature differs extremely depending on the part, such as when only the piston rod enters a high-temperature furnace.

2. Stroke adjustment type SCS2-P

■ If stroke adjustment is performed, the cushion will no longer be effective.

3. Heat resistant type SCS2-T

■ Magnets are not incorporated.

4. Low hydraulic pressure type SCS2-H

■ This product is a pneumatic cylinder that can use hydraulic operating oil as the operating fluid. It does not comply with JIS standards for hydraulic cylinders regarding operation and leakage tests.

For precautions during mounting, installation, adjustment, use, and maintenance, please refer to "Precautions for Use" described in this catalog and CKD Components Product Site (<https://www.ckd.co.jp/kiki/en/>) → "Model No." → [Instruction Manual](#).