



Pneumatic components

Safety Precautions

Be sure to read this section before use.

Refer to Intro Page 73 for general information of the cylinder, and to Intro Page 80 for general information of the cylinder switch.

Product-specific cautions: Large bore size cylinder: SCS2 Series

Design/selection

1. Common

⚠ CAUTION

■ Certification of class 2 pressure vessel

According to regulations of the Ministry of Health, Labour and Welfare, the following cylinders should be certified by the Japan Boilers Association.

- (1) Cylinders with a rated pressure exceeding 0.2 MPa and cylinder capacity exceeding 0.04 m³.
- (2) Cylinders with a rated pressure exceeding 0.2 MPa, bore size exceeding 200 mm and stroke length exceeding 1000 mm.

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

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

■ With cushion section check valve (C2)

The larger the load, the greater the delay in the starting time of the cylinder will be. To shorten the starting time, use the cushion section check valve (C2).

■ Heat resistant (SCS2-T)

Consult CKD if the ambient temperatures of different components vary drastically, such as when only the piston rod is inserted into a high temperature furnace.

Mounting, installation and adjustment

1. Stroke adjustable SCS2-P

⚠ CAUTION

- If the stroke is adjusted, the cushion cannot function.

2. Heat resistant SCS2-T

⚠ CAUTION

- Magnet is not built in.

SCP*3

CMK2

CMA2

SCM

SCG

SCA2

SCS2

CKV2

CAV2/
COVP/N2

SSD2

SSG

SSD

CAT

MDC2

MVC

SMG

MSD/
MSDG

FC*

STK

SRL3

SRG3

SRM3

SRT3

MRL2

MRG2

SM-25

ShkAbs

FJ

FK

Spd
Contr

Ending