

Series variation

Compact cylinder SMG Series

● : Standard, ○ : Option, ■ : Not available

| Variation | Model No. JIS symbol | Bore size (mm) | Standard stroke length (mm) | | | | | | | | | | | | | | Min. stroke (mm) (*1) | Max. stroke (mm) | Custom stroke (per mm) | Switch | Page |
|--|-------------------------|----------------|-----------------------------|----|----|----|----|----|----|----|----|----|----|----|-----|---|--------------------------|------------------|------------------------|--------|------|
| | | | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | | | | | | |
| Double acting/ single rod with switch | SMG SMG-L | φ6/φ10/φ16 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ■ | ■ | ■ | ■ | ■ | 5 | 60 | 5 | ○ | 1368 |
| | | φ20/φ25/φ32 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | 100 | | | | |
| Single acting/ push with switch | SMG-X SMG-XL | φ6/φ10/φ16 | ● | ● | ● | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 5 | 15 | - | ○ | 1374 |
| | | φ20/φ25/φ32 | ● | ● | ● | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 15 | | | | |
| Single acting/pull with switch | SMG-Y SMG-YL | φ6/φ10/φ16 | ● | ● | ● | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 5 | 15 | - | ○ | 1374 |
| | | φ20/φ25/φ32 | ● | ● | ● | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 15 | | | | |
| Double acting/ fine speed with switch | SMG-F SMG-LF | φ6/φ10/φ16 | ● | ● | ● | ● | ● | ● | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 5 | 30 | 5 | ○ | 1382 |
| | | φ20/φ25/φ32 | ● | ● | ● | ● | ● | ● | ● | ● | ■ | ■ | ■ | ■ | ■ | ■ | 50 | | | | |
| Double acting/ rotation-stop with switch | SMG-M SMG-ML | φ6/φ10/φ16 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | 5 | 60 | 5 | ○ | 1386 |
| | | φ20/φ25/φ32 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | 100 | | | | |

*1: Refer to pages 1368, 1374, 1382, 1386 for the min. stroke length with switch.

Variation and option combination selection table

| Category | Variation | Code | Variation | | | | | | | Port thread | | Option | | | |
|-------------|---------------------------------|-------------------|---------------------|--------------------|--------------------|---------------|----------------------|------------|-----|-------------|----------------------|---------------------------------|---------------------------|---|---|
| | | | Double acting basic | Single acting push | Single acting pull | Rotation-stop | With cylinder switch | Fine speed | NPT | G | Copper and PTFE free | Clean-room specs (exhaust port) | Clean-room specs (vacuum) | | |
| | | | None | X | Y | M | L | F | N | G | P6 | P7 P5 | P71 P51 | | |
| Variation | Double acting basic | Blank | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | Single acting push | Y | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | Single acting pull | X | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | Rotation-stop | M | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | With cylinder switch | L | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | Fine speed | F | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Port thread | NPT | N | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | G | G | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Option | Copper and PTFE free | P6 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | Clean-room specs (exhaust port) | P7, P5 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | Clean-room specs (vacuum) | P71, P51 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Accessory | Cylinder switch | Listed separately | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

○: Option
○: Available (custom order product)
△: Available depending on conditions (Contact CKD.)
×: Not available

Caution
*1: P6 is provided as standard.
(P6 code is not required.)

[Example of model No.]

SMG - X M L - 16 - 20 - KOH - D -

Model No.

A Bore size

C Stroke length

E Switch quantity

Variation
* List in order from left to right in the table.

B Port thread

D Switch model No.

F Option
* List in order from left to right in the table.

Model No.: Compact cylinder

● Variation: Single acting/push/rotation-stop/
with switch

A Bore size : φ16 mm

B Port thread : Rc thread

C Stroke length : 20 mm

D Switch model No.: Reed KOH switch, lead wire 1 m

E Switch quantity : 2

F Option : None