# ISO Cylinder: Standard Double Acting, Single/Double Rod Series C96 <br> ø32, ø40, ฮ50, ฮ63, ฮ80, ฮ100, ฮ125 

## How to Order



Applicable Auto Switches/Tie-rod Mounting


* Lead wire length symbols: $0.5 \mathrm{~m} . . . . . . .$. Nil (Example) M9NW

$$
\begin{aligned}
& 1 \mathrm{~m} \cdots \cdots . . . . \mathrm{M} \text { (Example) M9NWM } \\
& 3 \mathrm{~m} \cdots \cdots \cdots . \mathrm{L} \text { (Example) M9NWL } \\
& 5 \mathrm{~m} \cdots \ldots . . \mathrm{Z} \text { (Example) M9NWZ }
\end{aligned}
$$

* Since there are other applicable auto switches than listed, refer to SMC "Best Pneumatics 2004" Vol.7/8/9/10 catalog.
* For details about auto switches with pre-wired connector, refer to SMC "Best Pneumatics 2004" Vol. 6 catalog.
* D-A9■, M9 $\square$, M9 $\square$ W, M9 $\square$ AL are shipped together, (but not assembled).
(Switch mounting bracket is only assembled at the time of shipment.)
** D-M9BM, M9NM, M9PM type (product of 1 m in length of the lead wire) are applicable from the shipment in May, 2008.


JIS Symbol Double acting


## Minimum Stroke for Auto Switch Mounting

Refer to page 28 for "Minimum Stroke for Auto Switch Mounting".

Specifications

| Bore size (mm) | 32 | 40 | 50 | 63 | 80 | 100 | 125 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Action | Double acting |  |  |  |  |  |  |
| Fluid | Air |  |  |  |  |  |  |
| Proof pressure | 1.5 MPa |  |  |  |  |  |  |
| Max. operating pressure | 1.0 MPa |  |  |  |  |  |  |
| Min. operating pressure | 0.05 MPa |  |  |  |  |  |  |
| Ambient and fluid temperature | Without auto switch: -20 to $70^{\circ} \mathrm{C}$ With auto switch: -10 to $60^{\circ} \mathrm{C}$ |  |  |  |  |  |  |
| Lubrication | Not required (Non-lube) |  |  |  |  |  |  |
| Operating piston speed | 50 to $1000 \mathrm{~mm} / \mathrm{s}$ |  |  |  |  | - | 50 to $700 \mathrm{~mm} / \mathrm{s}$ |
| Allowable stroke tolerance | Up to 250 st: ${ }_{0}^{+1.0}, 251$ to 1000 st: ${ }^{+1.4} 0_{0}, 1001$ to 1500 st: ${ }_{0}^{+1.8}{ }_{0}, 1501$ to 2000 st: ${ }_{0}^{+2.2}$ |  |  |  |  |  |  |
| Cushion | Both ends (Air cushion) |  |  |  |  |  |  |
| Port size | G 1/8 | G 1/4 | G 1/4 | G 3/8 | G 3/8 | G 1/2 | G 1/2 |
| Mounting | Basic, Axial foot, Rod end flange, Head end flange, Single clevis, Double clevis, Center trunnion |  |  |  |  |  |  |

## Standard Stroke

| Bore size <br> $(\mathrm{mm})$ | Standard stroke <br> $(\mathrm{mm})$ | Max. ${ }^{*}$ <br> stroke |
| :---: | :---: | :---: |
| $\mathbf{3 2}$ | $25,50,80,100,125,160,200,250,320,400,500$ | 1000 |
| 40 | $25,50,80,100,125,160,200,250,320,400,500$ | 1900 |
| 50 | $25,50,80,100,125,160,200,250,320,400,500,600$ | 1900 |
| 63 | $25,50,80,100,125,160,200,250,320,400,500,600$ | 1900 |
| 80 | $25,50,80,100,125,160,200,250,320,400,500,600,700,800$ | 1900 |
| $\mathbf{1 0 0}$ | $25,50,80,100,125,160,200,250,320,400,500,600,700,800$ | 1900 |
| $\mathbf{1 2 5}$ | - | 2000 |

Intermediate strokes are available.

* Please consult with SMC for longer strokes.


## Accessories

| Mounting |  | Basic | Foot | Rod end flange | Head end flange | Single clevis | Double clevis | Center trunnion |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Standard | Rod end nut | - | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | - |
|  | Clevis pin | - | - | - | - | - | $\bigcirc$ | - |
| Option | Piston rod ball joint | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | - | - | $\bigcirc$ |
|  | Rod clevis | $\bigcirc$ | - | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Rod boot | $\bigcirc$ | - | - | - | - | - | - |

* Please do not use a piston rod ball joint (or floating joint) together with a head end clevis with a ball joint (or angled head end clevis with a ball joint).

