## **5 Port Solenoid Valve Body Ported/Single Unit** SY3000/5000/7000/9000 Series

How to Order

Note) 2-position double and manual override with locking function (D, E type) are excluded, because they don't comply with safety standard.

#### **20 Series** SY3000 5 SY5000 7 SY7000 SY9000 Type of actuation 2 position single (A) 4 2 (B) Y, YO or W□ type. (EA) 5 1 3 (EB) 3 position closed center (A) 4 2 (B) For DC 3 5 24 VDC 12 VDC 6 (EA) 5 1 3 (EB) 6 VDC 3 position exhaust center S 5 VDC (A) 4 2 (B) R 3 VDC For AC (50/60 Hz) (EA) 5 1 3 (EB)

3 position pressure center

(EA) 5 1 3 (EB)

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#### Coil specifications •

| Nil | Standard                                    |  |
|-----|---|--|
| Т   | With power saving circuit (24, 12 VDC only) |  |
|     |   |  |

\* Power saving circuit is not available in the case of D, DO,

#### Rated voltage

|   | ( 7 00 )          |
|---|-------------------|
| 1 | 100 VAC           |
| 2 | 200 VAC           |
| 3 | 110 VAC [115 VAC] |
| 4 | 220 VAC [230 VAC] |

- \* DC specifications of type D, Y, DO and YO is only available with 12 and 24 VDC.
- \* For type W□, DC voltage is only available. Note) AC-type models that are CE-compliant have DIN terminals only.

|                               |                                      |                                    | Elect       | trical entry 🖢                        |
|-------------------------------|--------------------------------------|------------------------------------|-------------|---------------------------------------|
| 24, 12, 6,                    | 5, 3 VDC/10                          | 00, 110, 200                       | , 220 VAC   | 24, 12 VDC/<br>100, 110, 200, 220 VAC |
| Grommet                       | L plug connector                     | M plug o                           | connector   | DIN terminal                          |
| G: Lead wire<br>length 300 mm | L: With lead wire<br>(Length 300 mm) | M: With lead wire<br>(Length 300 m |             | D, Y: With connector                  |
|                               |                                      |                                    |             |                                       |
| H: Lead wire                  | LN: Without lead                     | LO: Without                        | MO: Without | DO, YO: Without                       |
| length 600 mm                 | wire                                 | connector                          | connector   | connector                             |
|                               |                                      |                                    |             |                                       |
|                               | 24, 12 VDC<br>6, 5, 3 VDC            |                                    |             |                                       |
| ı                             | <b>18</b> connecto                   | r                                  |             |                                       |
| WO: Without connector         | wao: V                               | Vithout cable                      |             |                                       |
|                               |                                      |                                    |             |                                       |
| W□: With conr                 | nector WA :                          | With connector                     |             |                                       |
| cable                         |                                      | cable                              |             |                                       |

#### A, B port size Thread piping

| Symbol | Port size | Applicable series |
|--------|-----------|-------------------|
| M5     | M5 x 0.8  | SY3000            |
| 01     | 1/8       | SY5000            |
| 02     | 1/4       | SY7000            |
| 02     | 1/4       | SY9000            |
| 03     | 3/8       | 319000            |

#### One-touch fitting (Metric size)

| Symbol | Port size                 | Applicable series |
|--------|---------------------------|-------------------|
| C4     | One-touch fitting for ø4  | SY3000            |
| C6     | One-touch fitting for ø6  | 313000            |
| C4     | One-touch fitting for ø4  |                   |
| C6     | One-touch fitting for ø6  | SY5000            |
| C8     | One-touch fitting for ø8  |                   |
| C8     | One-touch fitting for ø8  | SY7000            |
| C10    | One-touch fitting for ø10 | 317000            |
| C8     | One-touch fitting for ø8  |                   |
| C10    | One-touch fitting for ø10 | SY9000            |
| C12    | One-touch fitting for ø12 |                   |

#### One-touch fitting (Inch size)

| Symbol | Port size                     | Applicable series |
|--------|-------------------------------|-------------------|
| N3     | One-touch fitting for ø 5/32" | SY3000            |
| N7     | One-touch fitting for ø 1/4"  | 313000            |
| N3     | One-touch fitting for ø 5/32" |                   |
| N7     | One-touch fitting for ø 1/4"  | SY5000            |
| N9     | One-touch fitting for ø 5/16" |                   |
| N9     | One-touch fitting for ø 5/16" | SY7000            |
| N11    | One-touch fitting for ø 3/8"  | 317000            |
| N9     | One-touch fitting for ø 5/16" | SY9000            |
| N11    | One-touch fitting for ø 3/8"  | 319000            |

#### Manual override

Nil: Non-locking push type

#### Bracket

Nil: Without bracket F1: With foot bracket / 2 position \ single only



SY9000 has no bracket.

#### 

| Nil | Rc   |
|-----|------|
| F   | G    |
| N   | NPT  |
| Т   | NPTF |

\* Except for M5

#### Made to Order

| Nil | _                          |
|-----|----------------------------|
| X20 | Body ported external pilot |
| X90 | Main valve fluoro rubber   |

#### CE-compliant •

| Nil | _            |
|-----|--------------|
| Q   | CE-compliant |

Note) AC-type models that are CE-compliant have DIN terminals only.

#### Light/Surge voltage suppressor

#### Flectrical entry for G H I M W

| Electrical entry for G, H, L, W, W |  |  |
|------------------------------------|--|--|
| Nil                                | Without light/surge voltage suppressor               |  |
| S                                  | With surge voltage suppressor                        |  |
| Z                                  | With light/surge voltage suppressor                  |  |
| R                                  | With surge voltage suppressor (Non-polar type)       |  |
| U                                  | With light/surge voltage suppressor (Non-polar type) |  |

- \* For AC voltage valves there is no "S" option. It is already built-in to the rectifier circuit.
- \* For "R" and "U", DC voltage is only available.
- \* Power saving circuit is only available in the "Z" type.

#### Electrical entry for D, Y

|     | · · · · · · · · · · · · · · · · · · ·                |
|-----|--|
| Nil | Without light/surge voltage suppresso                |
|     | With surge voltage suppressor (Non-polar type)       |
|     | With light/surge voltage suppressor (Non-polar type) |
|     |  |

- \* DOZ and YOZ are not available.
- \* For AC voltage valves there is no "S" option. It is already built-in to the rectifier circuit.

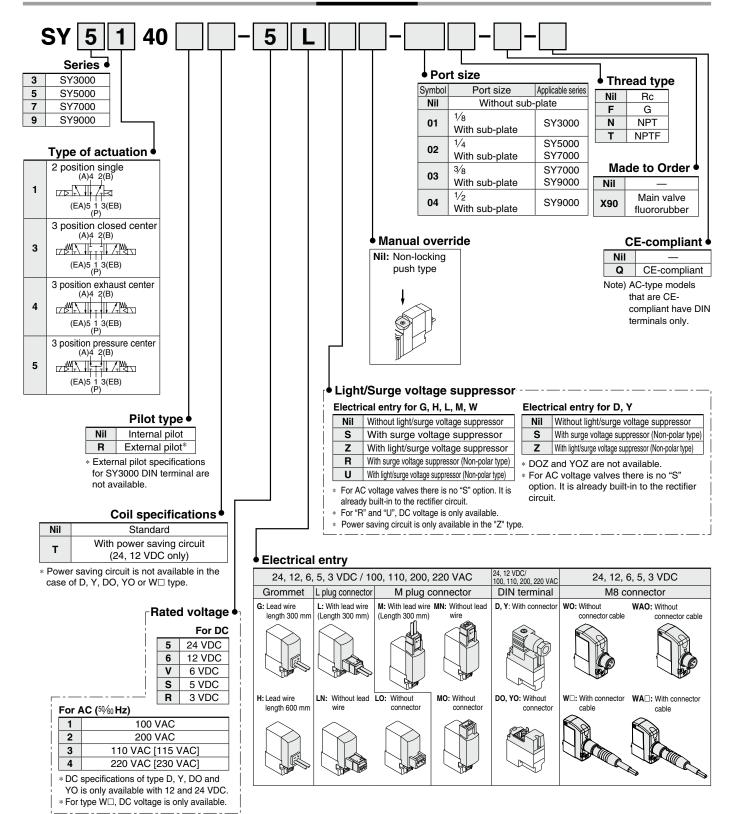
SMC validation products have been validated based on ISO 13849-2: 2012 Annex A, B & D.



# 5 Port Solenoid Valve Base Mounted/Single Unit SY3000/5000/7000/9000 Series

**How to Order** 

Note) 2-position double and manual override with locking function (D, E type) are excluded, because they don't comply with safety standard.



SMC validation products have been validated based on ISO 13849-2: 2012 Annex A, B & D.

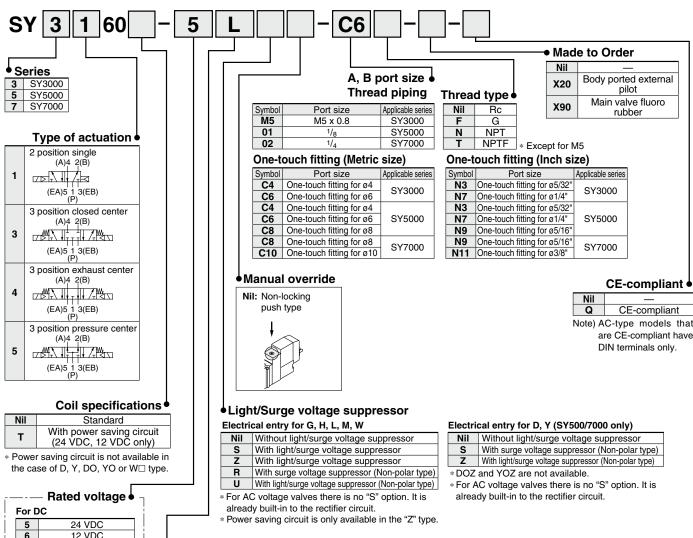


### 5 Port Solenoid Valve **Body Ported Manifold Cassette Type**

# SY3000/5000/7000 Series

**How to Order Valve** 

Note) 2-position double and manual override with locking function (D, E type) are excluded, because they don't comply with safety standard.



#### 12 VDC

| S     | 5 VDC             |  |
|-------|-------------------|--|
| R     | 3 VDC             |  |
| For A | · AC (50/60Hz)    |  |
| 1     | 100 VAC           |  |
| 2     | 200 VAC           |  |
| 3     | 110 VAC [115 VAC] |  |
| 4     | 220 VAC [230 VAC] |  |

6 VDC

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- \* DC specifications of type D, Y, DO and YO is only available with 12 and 24 VDC.
- \* D, Y, DO and YO only available for SY5000, SY7000.
- \* For type W□, DC voltage is only available.

Note) AC-type models that are CE-compliant have DIN terminals only.

#### Electrical entry

| 24, 12, 6, 5, 3 VDC/100, 110, 200, 220 VAC |                                      |                                      |                       | 24, 12 VDC/<br>100, 110, 200, 220 VAC     | 24, 12, 6, 5, 3 VDC              |                                   |
|--|--------------------------------------|--------------------------------------|-----------------------|---|----------------------------------|-----------------------------------|
| Grommet                                    | L plug connector                     | M plug connector                     |                       | DIN terminal                              | M8 connector                     |                                   |
| <b>G:</b> Lead wire length 300 mm          | L: With lead wire<br>(Length 300 mm) | M: With lead wire<br>(Length 300 mm) | MN: Without lead wire | (SY5000, 7000)<br>D, Y: With<br>connector | WO: Without connector cable      | WAO: Without connector cable      |
|  |                                      |                                      |                       |   |                                  |                                   |
| H: Lead wire length 600 mm                 | LN: Without lead wire                | LO: Without connector                | MO: Without connector | DO, YO: Without connector                 | <b>W</b> □: With connector cable | <b>WA</b> □: With connector cable |
|  |                                      |                                      |                       |   |                                  |                                   |

Note) The DIN terminal of the SY3000 series cannot be mounted on a standard manifold.