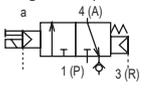
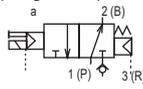
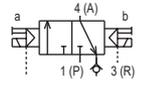
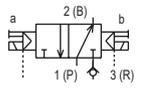
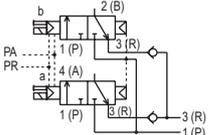
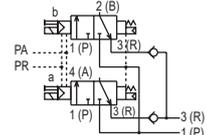
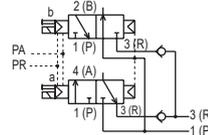
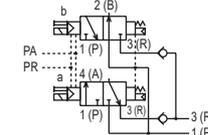
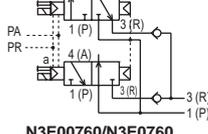
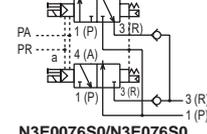
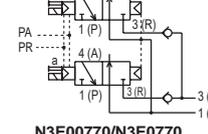
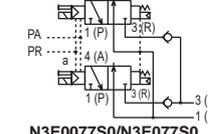
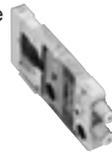
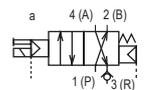
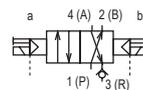
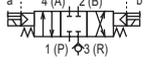
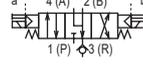
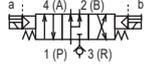


|                     |
|---------------------|
| SCPD3               |
| SCM                 |
| SSD2                |
| MDC2                |
| SMG                 |
| LCM                 |
| LCR                 |
| LCG                 |
| LCX                 |
| STM                 |
| STG                 |
| STR2                |
| MRL2                |
| GRC                 |
| Cylinder switch     |
| <b>MN3E</b>         |
| <b>MN4E</b>         |
| 4GA/B               |
| M4GA/B              |
| MN4GA/B             |
| F.R (module unit)   |
| Clean F.R           |
| Precision R         |
| Press gauge         |
| Diff. press gauge   |
| Electro-pneumatic R |
| Speed controller    |
| Auxiliary valve     |
| Fitting/tube        |
| Clean air unit      |
| Pressure sensor     |
| Flow rate sensor    |
| Valve for air blow  |
| Ending              |

| External appearance of series |  | Position<br>Number of solenoids (*1)<br>JIS symbol   |  |  |  |
|-------------------------------|--|--|--|--|--|
| 3-port valve                  | <b>MN3E00</b><br>3-port valve<br><br>(Valve pitch 7.0 mm)                   | 3-port valve<br>● 2-position NC self reset (differential pressure spring return)<br><br><b>N3E0010/N3E010</b>       | ● 2-position NO self reset (differential pressure spring return)<br><br><b>N3E00110/N3E0110</b> | ● 2-position NC self hold<br><br><b>N3E0020/N3E020</b>                             | ● 2-position NO self hold<br><br><b>N3E00210/N3E0210</b>                                    |
|                               | <b>MN3E0</b><br>3-port valve<br><br>(Valve pitch 10.0 mm)                  | * The JIS symbols for the actual part may differ from these drawings due to the relation of the space and port position.   |  |  |  |
| Dual 3-port valve integrated  | <b>MN3E00</b><br>Dual 3-port valve integrated<br><br>(Valve pitch 7.0 mm) | Dual 3-port valve integrated<br>● NC/NC self reset (differential pressure return)<br><br><b>N3E00660/N3E0660</b>  | ● NC/NC self reset (differential pressure spring return)<br><br><b>N3E0066S0/N3E066S0</b>     | ● NC/NO self reset (differential pressure return)<br><br><b>N3E00670/N3E0670</b> | ● NC/NO self reset (differential pressure spring return)<br><br><b>N3E0067S0/N3E067S0</b> |
|                               | <b>MN3E0</b><br>Dual 3-port valve integrated<br><br>(Valve pitch 10.0 mm) | ● NO/NC self reset (differential pressure return)<br><br><b>N3E00760/N3E0760</b>                                  | ● NO/NC self reset (differential pressure spring return)<br><br><b>N3E0076S0/N3E076S0</b>     | ● NO/NO self reset (differential pressure return)<br><br><b>N3E00770/N3E0770</b> | ● NO/NO self reset (differential pressure spring return)<br><br><b>N3E0077S0/N3E077S0</b> |
| 4-port valve                  | <b>MN4E00</b><br>4-port valve<br><br>(Valve pitch 7.0 mm)                 | 4-port valve<br>● 2-position single self reset (differential pressure spring return)<br><br><b>N4E0010/N4E010</b> | ● 2-position double self hold<br><br><b>N4E0020/N4E020</b>                                    |  |  |
|                               | <b>MN4E0</b><br>4-port valve<br><br>(Valve pitch 10.0 mm)                 | ● 3-position all ports closed<br><br><b>N4E030</b>  | ● 3-position A/B/R connection<br><br><b>N4E040</b>  | ● 3-position P/A/B connection<br><br><b>N4E050</b>                               |  |

\*1: Refer to "Self reset" on page 412 for operation of the self reset type.

\*2: Effective cross-sectional area S and sonic conductance C are converted as  $S \approx 5.0 \times C$ .

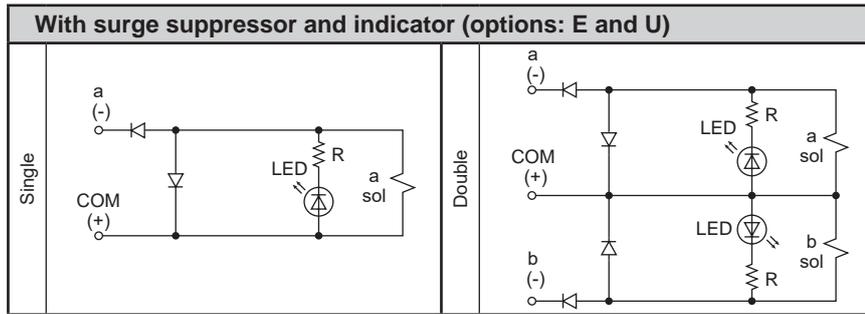
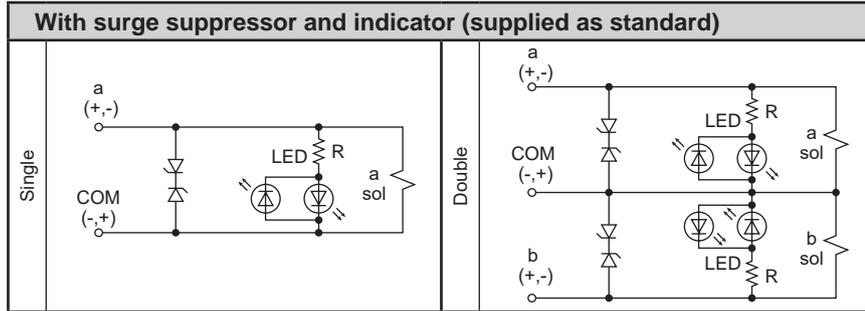
| Flow characteristics C<br>[dm <sup>3</sup> /(s·bar)] (*2) | Voltage (V)                             | Switching position |             |             |             |                                |                                |                                |                                | Port size of port A/B |                   |                             |                             |                             |     | Electrical connections |               |    |    |    |    | Reference page |                    |      |       |                   |                 |            |                               |                      |                     |
|---|---|--------------------|-------------|-------------|-------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-----------------------|-------------------|-----------------------------|-----------------------------|-----------------------------|-----|------------------------|---------------|----|----|----|----|----------------|--------------------|------|-------|-------------------|-----------------|------------|-------------------------------|----------------------|---------------------|
|   |   | 3-port valve       |             |             |             | Dual 3-port valve integrated   |                                |                                |                                | 4-port valve          |                   |                             |                             | Push-in fitting             |     |                        | Female thread |    |    |    |    |                |                    |      |       |                   |                 |            |                               |                      |                     |
|   |   | Single N.C.        | Single N.O. | Double N.C. | Double N.O. | N.C. on A side, N.C. on B side | N.C. on A side, N.O. on B side | N.O. on A side, N.C. on B side | N.O. on A side, N.O. on B side | 2-position single     | 2-position double | 3-position all ports closed | 3-position A/B/R connection | 3-position P/A/B connection | Mix | ø1.8                   | ø3            | ø4 | ø6 | M3 | M5 |                | Fiber tube fitting | ø1/8 | ø5/32 | Individual wiring | D sub-connector | Flat cable | Intermediate electrical block | Electrical block mix | Serial transmission |
| 0.3   |   | ●                  | ●           | ●           | ●           |                                |                                |                                |                                |                       |                   |                             |                             | ●                           | ●   | ●                      | ●             | ●  |    |    |    | ●              | ●                  | ●    | ●     | ●                 | ●               | ●          | ●                             | ●                    | 344                 |
| 0.54  |   | ●                  | ●           | ●           | ●           |                                |                                |                                |                                |                       |                   |                             |                             | ●                           | ●   | ●                      | ●             | ●  | ●  | ●  | ●  | ●              | ●                  | ●    | ●     | ●                 | ●               | ●          | ●                             | ●                    | 360                 |
| 0.3   | (*3)<br>24 VDC<br>12 VDC                |                    |             |             |             | ●                              | ●                              | ●                              | ●                              |                       |                   |                             |                             | ●                           | ●   | ●                      | ●             | ●  |    |    |    | ●              | ●                  | ●    | ●     | ●                 | ●               | ●          | ●                             | ●                    | 344                 |
| 0.50  | *3: Serial transmission is 24 VDC only. |                    |             |             |             | ●                              | ●                              | ●                              | ●                              |                       |                   |                             |                             | ●                           | ●   | ●                      | ●             | ●  | ●  | ●  | ●  | ●              | ●                  | ●    | ●     | ●                 | ●               | ●          | ●                             | ●                    | 360                 |
| 0.3   |   |                    |             |             |             |                                |                                |                                |                                | ●                     | ●                 |                             |                             | ●                           | ●   | ●                      | ●             | ●  |    |    |    | ●              | ●                  | ●    | ●     | ●                 | ●               | ●          | ●                             | ●                    | 344                 |
| 0.54  |   |                    |             |             |             |                                |                                |                                |                                | ●                     | ●                 | ●                           | ●                           | ●                           | ●   | ●                      | ●             | ●  | ●  | ●  | ●  | ●              | ●                  | ●    | ●     | ●                 | ●               | ●          | ●                             | ●                    | 360                 |
| 0.50  | (N4E030)<br>(N4E050)                    |                    |             |             |             |                                |                                |                                |                                | ●                     | ●                 | ●                           | ●                           | ●                           | ●   | ●                      | ●             | ●  | ●  | ●  | ●  | ●              | ●                  | ●    | ●     | ●                 | ●               | ●          | ●                             | ●                    | 360                 |

|                     |
|---------------------|
| SCPD3               |
| SCM                 |
| SSD2                |
| MDC2                |
| SMG                 |
| LCM                 |
| LCR                 |
| LCG                 |
| LCX                 |
| STM                 |
| STG                 |
| STR2                |
| MRL2                |
| GRC                 |
| Cylinder Switch     |
| <b>MN3E</b>         |
| <b>MN4E</b>         |
| 4GA/B               |
| M4GA/B              |
| MN4GA/B             |
| F.R. (module unit)  |
| Clean F.R           |
| Precision R         |
| Press gauge         |
| Diff. press gauge   |
| Electro-pneumatic R |
| Speed controller    |
| Auxiliary valve     |
| Fitting/ tube       |
| Clean air unit      |
| Pressure sensor     |
| Flow rate sensor    |
| Valve for air blow  |
| Ending              |

# MN3E<sup>0</sup><sub>00</sub>/MN4E<sup>0</sup><sub>00</sub> Series

|                                  | Wiring method                   |   | Manual operating device |   | Other options |   |
|----------------------------------|---------------------------------|---|-------------------------|---|---------------|---|
| SCPD3                            | <b>T30(N)</b><br><b>T30(N)R</b> | D sub-connector   | <b>TM1A</b>             | Intermediate electrical block (RITS6PX2)                    | <b>Blank</b>  | ● Common for locking and non-locking types (standard)                           |
| SCM                              |                                 |   |                         |   |               | <b>E</b> Low heat/energy saving circuit   |
| SSD2                             |                                 |   |                         |   |               | <b>A</b> Ozone proof  |
| MDC2                             |                                 |   |                         |   |               | <b>F</b> A/B port filter integrated   |
| SMG                              |                                 |   |                         |   |               |   |
| LCM                              | <b>T50</b><br><b>T50R</b>       | 20 pin flat cable connector (with power supply terminal)    | <b>TM1C</b>             | Intermediate electrical block (RITS6PX1)                    |               |   |
| LCR                              |                                 |   |                         |   |               | <b>U</b> Built-in individual power supply function (AUX)                        |
| LCG                              |                                 |   |                         |   |               | * MN3E0/MN4E0 only  |
| LCX                              |                                 |   |                         |   |               |   |
| STM                              | <b>T51</b><br><b>T51R</b>       | 20 pin flat cable connector (without power supply terminal) | <b>TM52</b>             | Intermediate electrical block (10 pin flat cable connector) | <b>M</b>      | For non-locking   |
| STG                              |                                 |   |                         |   |               |   |
| STR2                             |                                 |   |                         |   |               |   |
| MRL2                             |                                 |   |                         |   |               | <b>D*</b> Individual wiring D-connector   |
| GRC                              |                                 |   |                         |   |               |   |
| Cylinder switch                  | <b>T52</b><br><b>T52R</b>       | 10 pin flat cable connector (without power supply terminal) | <b>T6G1</b>             | Serial transmission   |               |   |
| MN3E<br>MN4E                     |                                 |   |                         |   |               | <b>D*</b> Individual wiring D-connector without socket/with socket and terminal |
| 4GA/B                            |                                 |   |                         |   |               |   |
| M4GA/B                           |                                 |   |                         |   |               |   |
| MN4GA/B                          |                                 |   |                         |   |               |   |
| F.R (module unit)                | <b>T53</b><br><b>T53R</b>       | 26 pin flat cable connector (without power supply terminal) | <b>T7*</b>              | Serial transmission (close contact)                         |               |   |
| Clean F.R                        |                                 |   |                         |   |               | <b>D*</b> Individual wiring D-connector without socket/with socket and terminal |
| Precision R                      |                                 |   |                         |   |               |   |
| Press gauge<br>Diff. press gauge |                                 |   |                         |   |               |   |
| Electro-pneumatic R              |                                 |   |                         |   |               |   |
| Speed controller                 |                                 |   |                         |   |               |   |
| Auxiliary valve                  |                                 |   |                         |   |               |   |
| Fitting/tube                     |                                 |   |                         |   |               | <b>Dummy block</b>  |
| Clean air unit                   |                                 |   |                         |   |               |   |
| Pressure sensor                  |                                 |   |                         |   |               |   |
| Flow rate sensor                 |                                 |   |                         |   |               |   |
| Valve for air blow               |                                 |   |                         |   |               |   |
| Ending                           |                                 |   |                         |   |               |   |

### Electric connection circuit diagram



|                                  |
|----------------------------------|
| SCPD3                            |
| SCM                              |
| SSD2                             |
| MDC2                             |
| SMG                              |
| LCM                              |
| LCR                              |
| LCG                              |
| LCX                              |
| STM                              |
| STG                              |
| STR2                             |
| MRL2                             |
| GRC                              |
| Cylinder Switch                  |
| <b>MN3E</b>                      |
| <b>MN4E</b>                      |
| 4GA/B                            |
| M4GA/B                           |
| MN4GA/B                          |
| F.R. (module unit)               |
| Clean F.R                        |
| Precision R                      |
| Press gauge<br>Diff. press gauge |
| Electro-pneumatic R              |
| Speed controller                 |
| Auxiliary valve                  |
| Fitting/tube                     |
| Clean air unit                   |
| Pressure sensor                  |
| Flow rate sensor                 |
| Valve for air blow               |
| Ending                           |