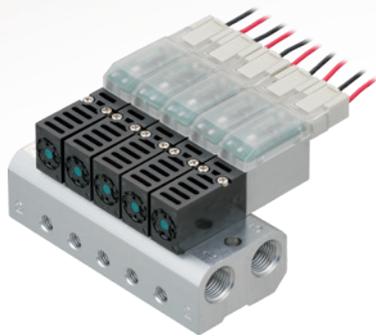


To stop or not stop the equipment during power failure?

Compatible with self-holding and continuous energization of linear motion solenoid valves!

Continuous energization

- Power consumption of 0.9 W!
Low power consumption even with large flow rate



Applications
Used with continuous energization, but home return is possible during power failure.

Self-holding

- PNP specification added!
Note) NPN standard compliant



Applications
Switching position is maintained during power outages.

Reduced Wiring compatible *1

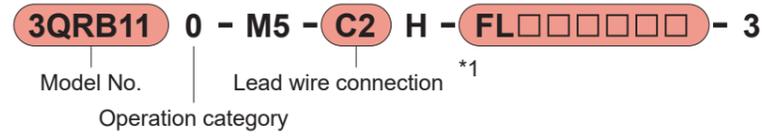
| | Centralized terminal block | D-sub connector | Flat cable |
|-----------------------------|----------------------------|-----------------|-------------|
| Solenoid valve Max stations | 16 stations | 20 stations | 18 stations |
| Max number of solenoids | 16 points | 24 points | 18 points |

*1. Target Solenoid valve : Standard specification 3QRA/B Series, continuous energization.
Self-holding Specification (NPN/PNP) is not compatible with Reduced Wiring Specification.

Direct operated 3-port valve 3QR Series [Low heat generation/reduced wiring specification]

Continuous energization specification

Model No. Notation



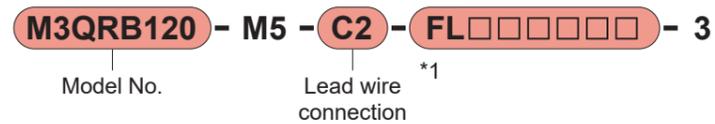
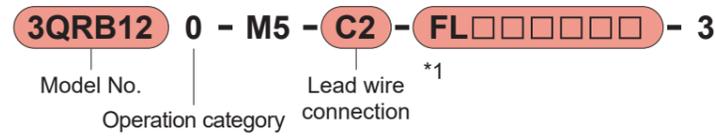
Specification

| Item | Continuous energization specification (Large flow) |
|-----------------------|--|
| Valve type | Spring return |
| Rated voltage | 24 VDC |
| Starting current | 0.13 A |
| Holding current | 0.04 A |
| Power consumption | 0.9 W |
| Heat resistance class | B |
| Indicator | LED |
| Surge suppressor | Diode |

* 3.2 W for up to 70 ms from start.

Self-holding type PNP specification

Model No. Notation



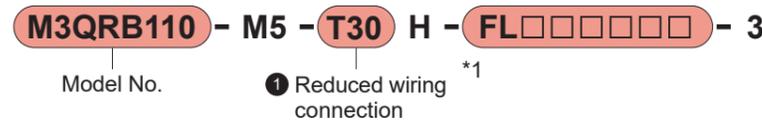
Specification

| Item | Self-holding type PNP specification |
|-----------------------|-------------------------------------|
| Valve type | Self-holding |
| Rated voltage | 24 VDC |
| Starting current | - |
| Holding current | 0.08 A |
| Power consumption | (2.0 W) |
| Heat resistance class | B |
| Indicator | LED |
| Surge suppressor | Diode |

* Min energizing time is 80 ms or more.

Reduced wiring specification

Model No. Notation



① Reduced wiring connection

| Code | Content |
|------|--|
| T10 | Centralized terminal block (M3 screw) |
| T30 | 25-pin D-sub connector (Lock screw : M2.6) |
| T51 | 20-pin flat cable connector |

Specification

| Item | Terminal block | D-sub connector | Flat cable |
|-------------------------|-------------------------|------------------------|---|
| Valve type | Spring return | Spring return | Spring return |
| Number of output points | 16 points | 16 points | 16 points |
| Max number of stations | 16 stations | 16 stations | 16 stations |
| Wiring specification | M3 screw terminal block | D-sub connector 25-pin | MIL-C-83503 compliant IDC socket 20-pin |

* Self-holding type cannot be selected.

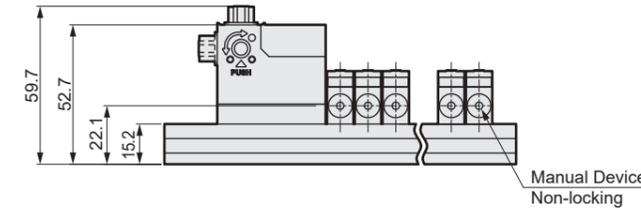
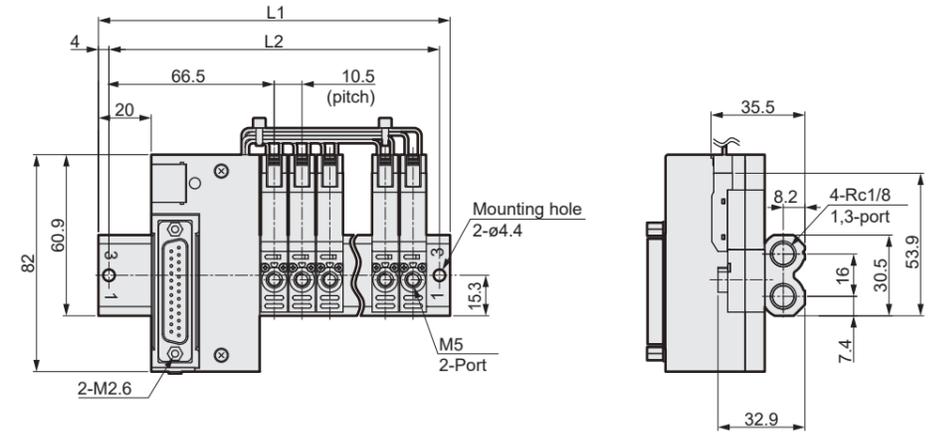
1. For [], after the order model No. is selected, we will fill in the 6 digits.

*2. For details on 3QR Series (specification, model No., etc.), see [Directional control valve 2] (Catalog No. RJ-012AA).



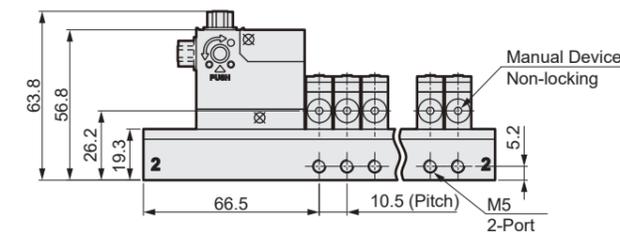
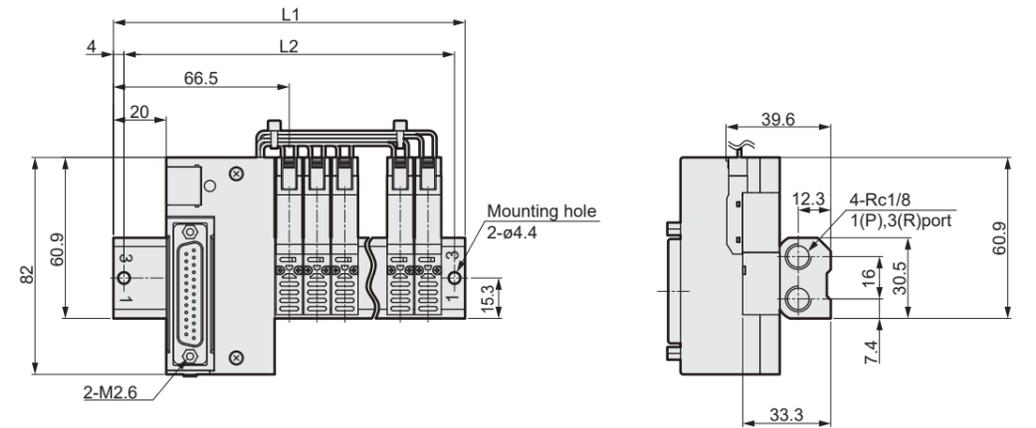
Reduced wiring specification external dimension drawing

3QRA



| | 2 stations | 3 stations | 4 stations | 5 stations | 6 stations | 7 stations | 8 stations | 9 stations | 10 stations | 11 stations | 12 stations | 13 stations | 14 stations | 15 stations | 16 stations |
|----|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| L1 | 91 | 102 | 112 | 123 | 133 | 144 | 154 | 165 | 175 | 186 | 196 | 207 | 217 | 228 | 238 |
| L2 | 83 | 93.5 | 104 | 115 | 125 | 136 | 146 | 157 | 167 | 178 | 188 | 199 | 209 | 220 | 230 |

3QRB



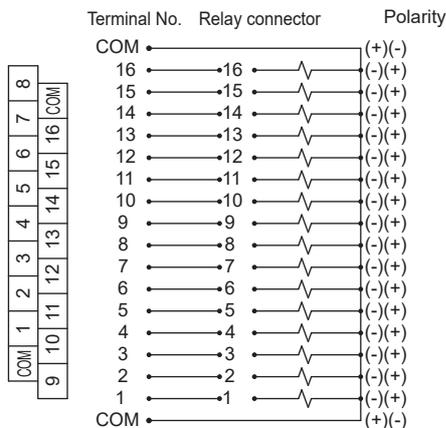
| | 2 stations | 3 stations | 4 stations | 5 stations | 6 stations | 7 stations | 8 stations | 9 stations | 10 stations | 11 stations | 12 stations | 13 stations | 14 stations | 15 stations | 16 stations |
|----|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| L1 | 91 | 102 | 112 | 123 | 133 | 144 | 154 | 165 | 175 | 186 | 196 | 207 | 217 | 228 | 238 |
| L2 | 83 | 93.5 | 104 | 115 | 125 | 136 | 146 | 157 | 167 | 178 | 188 | 199 | 209 | 220 | 230 |

Direct operated 3-port valve **3QR** Series

Connection diagram

Reduced wiring specification connection diagram

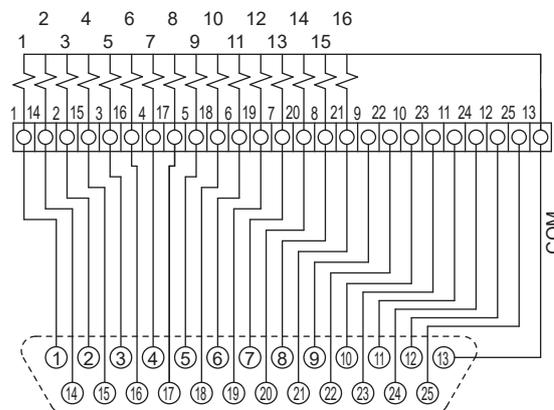
T10 specification



PNP/NPN must be indicated at quotation.

| | | | | | | | | |
|-----------|----|----|----|----|----|----|----|---|
| Pin No. | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 |
| Valve No. | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 |
| Pin No. | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| Valve No. | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |

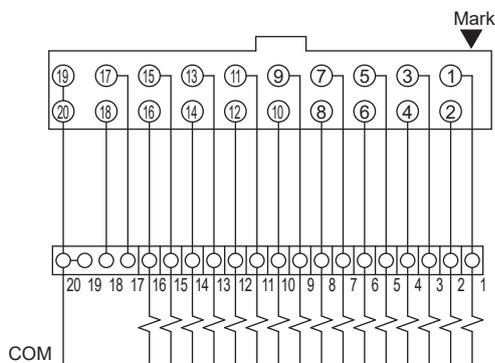
T30 specification



PNP/NPN must be indicated at quotation

| | | | | | | | | | | | | | |
|-----------|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| Pin No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Valve No. | 1 | 3 | 5 | 7 | 9 | 11 | 13 | 15 | - | - | - | - | COM |
| Pin No. | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | |
| Valve No. | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | - | - | - | - | |

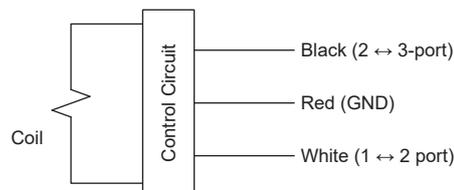
T51 specification



PNP/NPN must be indicated at quotation.

| | | | | | | | | | | |
|-----------|-----|----|----|----|----|----|---|---|---|---|
| Pin No. | 19 | 17 | 15 | 13 | 11 | 9 | 7 | 5 | 3 | 1 |
| Valve No. | COM | - | 15 | 13 | 11 | 9 | 7 | 5 | 3 | 1 |
| Pin No. | 20 | 18 | 16 | 14 | 12 | 10 | 8 | 6 | 4 | 2 |
| Valve No. | COM | - | 16 | 14 | 12 | 10 | 8 | 6 | 4 | 2 |

Self-holding (latching) connection diagram



If the goods and/or their replicas, the technology and/or software found in this catalog are to be exported from Japan, Japanese laws require the exporter makes sure that they will never be used for the development and/or manufacture of weapons for mass destruction.

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