

3 Port Solenoid Valve

Series VQZ100/200/300

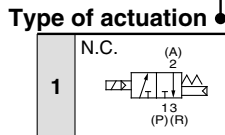
Single Unit



VQZ100 / How to Order Valve

VQZ 1 1 5 [] - 5 M [] 1 - C6 - PR [] - []

Series
1 VQZ100 body width 10 mm



Body type

Function

| Symbol | Specifications | DC (0.35 W) | AC (Note 3) |
|----------------------|-----------------------------------|----------------|----------------|
| Nil | Standard | ○ | ○ |
| K Note 1) | High pressure type | ○ | — |
| R Note 1, 2) | External pilot type | ○ | ○ |
| KR Note 1, 2) | High pressure/External pilot type | ○ | — |

Note 1) Option
Note 2) For details on external pilot type, refer to page 15.
Note 3) For AC specification power consumption, refer to page 3.



Caution
Use standard (DC) specification for continuous duty.

Coil voltage

| | |
|---|------------------------------|
| 1 | 100 VAC (50/60 Hz) |
| 2 | 200 VAC (50/60 Hz) |
| 3 | 110 VAC [115 VAC] (50/60 Hz) |
| 4 | 220 VAC [230 VAC] (50/60 Hz) |
| 5 | 24 VDC |
| 6 | 12 VDC |

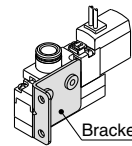
CE compliant

| | |
|----------|-----------|
| Nil | — |
| Q | CE marked |

Note) For CE compliant models, DC-type only.

Option

Nil: None
F: With bracket



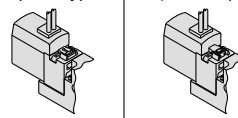
Port size [2(A) port]

| | |
|-----------|------------------------------|
| C3 | ø3.2 one-touch fitting |
| C4 | ø4 one-touch fitting |
| C6 | ø6 one-touch fitting |
| M5 | M5 thread (Replaceable type) |

Note) For inch size one-touch fittings, refer to page 15.

Manual override

Nil: Non-locking push type
B: Locking type (Tool required)



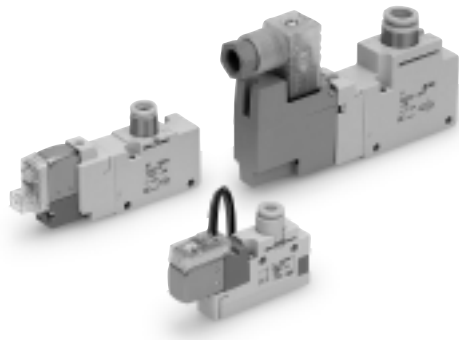
Electrical entry

| G: Grommet (DC specification) | L: L-type plug connector with lead wire | LO: L-type plug connector without connector | M: M-type plug connector with lead wire | MO: M-type plug connector without connector |
|-------------------------------|---|---|---|---|
| | With light/surge voltage suppressor | With light/surge voltage suppressor | With light/surge voltage suppressor | With light/surge voltage suppressor |
| | | | | |

Note) Standard lead wire length: 300 mm

Note) For applicable one-touch fitting and silencer models for this valve series, refer to back page 4.

Series VQZ100/200/300



Specifications

| | | | |
|---|--|-------------|-------------------------------|
| Valve construction | Metal seal | Rubber seal | VQZ100 (Poppet seal) |
| Fluid | Air, Inert gas | | |
| Max. operating pressure (MPa) | 0.7 (High pressure type: 1.0) | 0.7 | 0.7 (High pressure type: 1.0) |
| Min. operating pressure (MPa) | 0.1 | 0.15 | 0.15 |
| Ambient and fluid temperature (°C) | -10 to 50 (No freezing) | | |
| Max. operating frequency (Hz) | 20 | 5 | 20 |
| Pilot exhaust method | Individual exhaust | | Common exhaust |
| Lubrication | Not required | | |
| Manual override | Push type, Locking type (Tool required) | | |
| Mounting orientation | Free | | |
| Impact/Vibration resistance (m/s²) <small>Note 1)</small> | 150/30 | | |
| Enclosure | Dustproof (DIN terminal: IP65 <small>Note 2)</small>) | | |



* Based on IEC60529

Note 1) Impact resistance: No malfunction occurred when it is tested with a drop tester in the axial direction and at the right angles to the main valve and armature in both energized and de-energized states every once for each condition. (Value in the initial state)

Vibration resistance: No malfunction occurred in one sweep test between 45 and 2000 Hz. Test was performed to axis and right angle directions of the main valve and armature when pilot signal is ON and OFF. (Value in the initial state)

Note 2) When IP65 compliant DIN terminals are selected: VQZ₃□2□-□Y□□W1-□□

Options

| |
|---|
| High speed response type |
| High pressure type (Metal seal type only) |
| External pilot type* |

* For details on external pilot type, refer to page 15.



Made to Order
(For details, refer to page 34.)

| Symbol | Description |
|--------|----------------------------|
| X30 | Pilot valve common exhaust |
| X90 | Main valve fluoro-rubber |
| X113 | All fluoro-rubber |

Solenoid Specifications

| | | | |
|--------------------------------------|--------------------|--|---|
| Electrical entry | | Grommet (G) L-type plug connector (L) | M-type plug connector (M) DIN terminal (Y) |
| | | G, L, M | Y |
| Coil rated voltage (V) | DC | 24, 12 | |
| | AC 50/60 Hz | 100, 110, 200, 220* | |
| Allowable voltage fluctuation | | ±10% of rated voltage* | |
| Power consumption (W) | DC | Standard | 0.35 [(With light: 0.4 (DIN terminal with light: 0.45)] |
| | | High speed response, high pressure | 0.9 [(With light: 0.95 (DIN terminal with light: 1.0)] |
| Apparent power (VA)* | AC | 100 V | 0.78 (With light: 0.81) 0.78 (With light: 0.87) |
| | | 110 V [115 V] | 0.86 (With light: 0.89) [0.94 (With light: 0.97)] 0.86 (With light: 0.87) [0.94 (With light: 1.07)] |
| | | 200 V | 1.18 (With light: 1.22) 1.15 (With light: 1.30) |
| | | 220 V [230 V] | 1.30 (With light: 1.34) [1.42 (With light: 1.46)] 1.27 (With light: 1.46) [1.39 (With light: 1.60)] |
| Surge voltage suppressor | | Varistor | |
| Indicator light | | LED (Neon light when AC with DIN terminal) | |



* In common between 110 VAC and 115 VAC, and between 220 VAC and 230 VAC.

* For 115 VAC and 230 VAC, the allowable voltage is -15% to +5% of rated voltage.

Flow Characteristics

| Series | Valve construction | Model | | Flow characteristics | | | | | | Response time (ms) <small>Note 1)</small> | | | | <small>Note 2)</small> Weight (g) |
|--------|--------------------|-------------|--------|------------------------------|------|------|------------------------------|------|------|---|-------------------------------|-------------------------|------------|--------------------------------------|
| | | | | 1→2 (P→A) | | | 2→3 (A→R) | | | Standard: 0.35 W | High speed response: 0.9 W | High pressure: 0.9 W | AC | |
| | | | | C [dm ³ /(s·bar)] | b | Cv | C [dm ³ /(s·bar)] | b | Cv | | | | | |
| VQZ100 | N.C. valve | Poppet | VQZ115 | 0.59 | 0.44 | 0.17 | 0.56 | 0.30 | 0.14 | 10 or less | — | 13 or less | 22 or less | 24 |
| VQZ200 | N.C. valve | Metal seal | VQZ212 | 1.2 | 0.21 | 0.30 | 1.3 | 0.24 | 0.33 | 22 or less | 14 or less | 18 or less | 34 or less | 57 |
| | | Rubber seal | VQZ232 | 1.6 | 0.33 | 0.39 | 1.7 | 0.37 | 0.45 | 22 or less | 15 or less | — | 36 or less | |
| | N.O. valve | Metal seal | VQZ222 | 1.2 | 0.25 | 0.31 | 1.3 | 0.20 | 0.31 | 22 or less | 14 or less | 18 or less | 34 or less | |
| | | Rubber seal | VQZ242 | 1.6 | 0.36 | 0.40 | 1.7 | 0.36 | 0.45 | 22 or less | 15 or less | — | 36 or less | |
| VQZ300 | N.C. valve | Metal seal | VQZ312 | 2.7 | 0.18 | 0.62 | 2.4 | 0.28 | 0.56 | 22 or less | 17 or less | 22 or less | 34 or less | 93 |
| | | Rubber seal | VQZ332 | 3.5 | 0.34 | 0.87 | 3.0 | 0.33 | 0.72 | 33 or less | 25 or less | — | 57 or less | |
| | N.O. valve | Metal seal | VQZ322 | 2.6 | 0.21 | 0.59 | 2.2 | 0.16 | 0.49 | 22 or less | 17 or less | 22 or less | 34 or less | |
| | | Rubber seal | VQZ342 | 3.5 | 0.38 | 0.88 | 2.9 | 0.27 | 0.69 | 33 or less | 25 or less | — | 57 or less | |

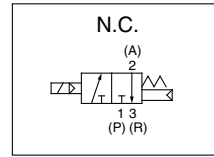
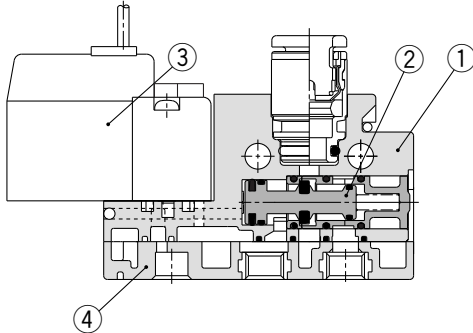


Note 1) Based on JIS B 8375-1981 (Supply pressure: 0.5 MPa; with light/surge voltage suppressor: clean air)
Response time values will change depending on pressure and air quality.

Note 2) Weight for threaded connection

Construction

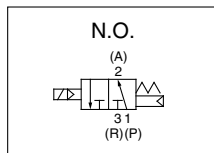
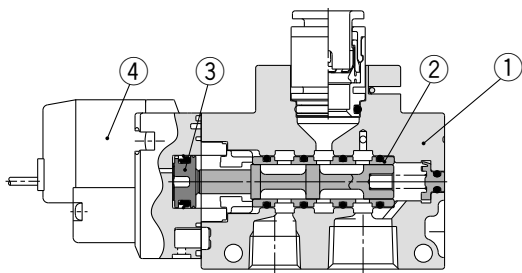
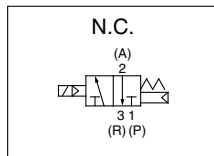
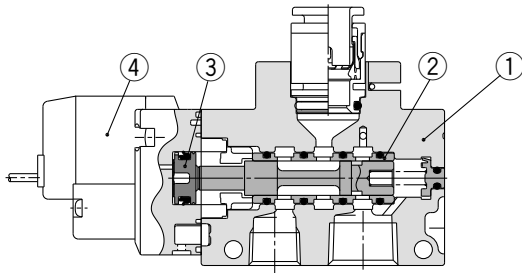
VQZ100 Poppet type



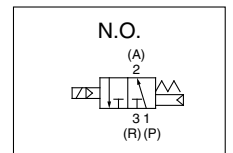
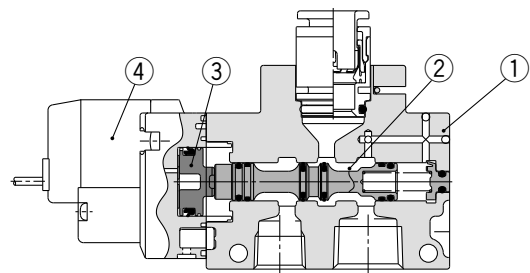
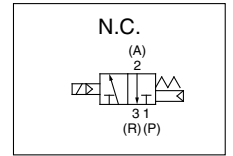
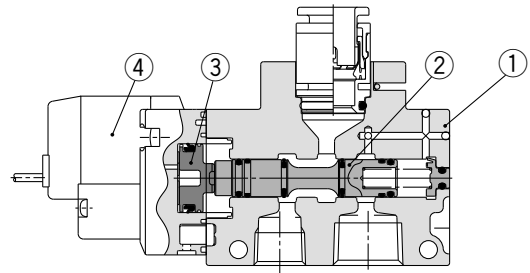
Component Parts

| No. | Description | Material | Note |
|-----|----------------------|----------------|---|
| 1 | Body | Resin | |
| 2 | Spool valve | Aluminum/HNBR | |
| 3 | Pilot valve assembly | — | |
| 4 | P, R port | Resin/Aluminum | VQZ100-12A (Standard) VQZ100-12B (External pilot type) |

VQZ200/300 Metal seal type



Rubber seal type



Component Parts

| No. | Description | Material | Note |
|-----|----------------------|---------------------|-------------|
| 1 | Body | Aluminum die-casted | |
| 2 | Spool, Sleeve | Stainless steel | Metal seal |
| | Spool valve | Aluminum/HNBR | Rubber seal |
| 3 | Piston | Resin | |
| 4 | Pilot valve assembly | — | |

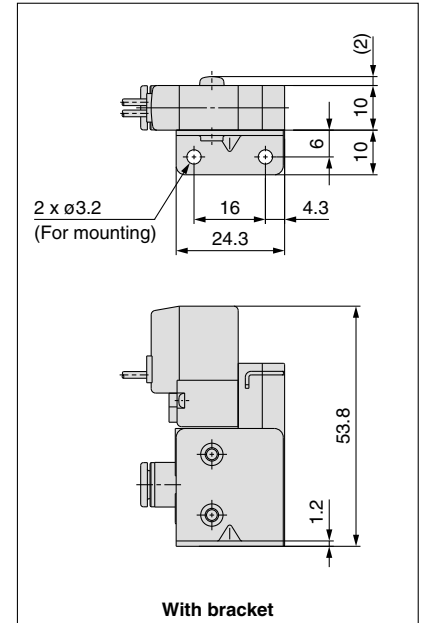
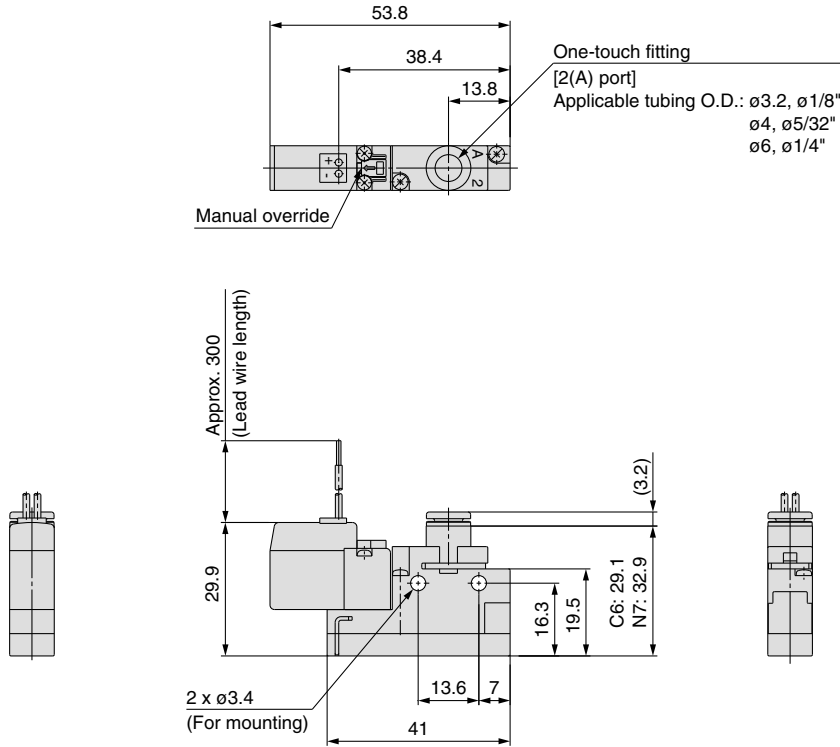
Note) For "How to Order Pilot Valve Assembly", refer to page 16.

Series VQZ100/200/300

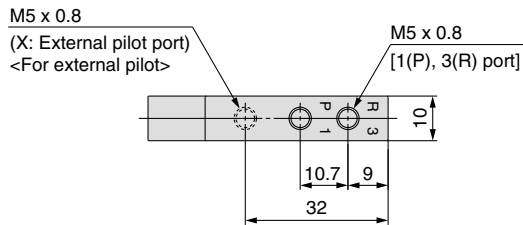
Dimensions: VQZ100

Single Unit

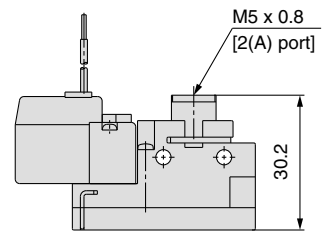
Grommet (G): VQZ115□-□G□1-C3, C4, C6-PR



Note) For bracket assembly part no., refer to page 16.

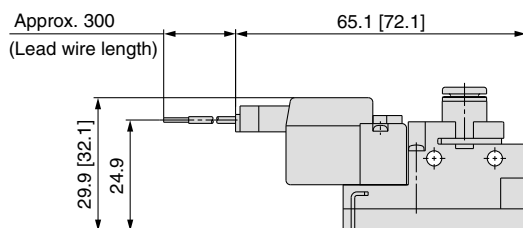


VQZ115□-□G□1-M5-PR



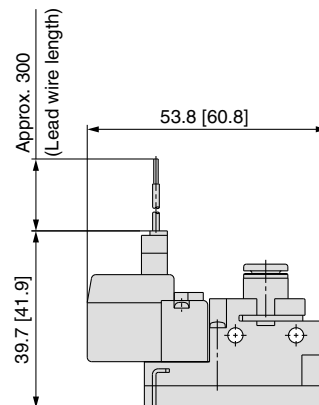
Note) For one-touch fittings for P/R port and silencer part no., refer to back page 4.

L-type plug connector (L): VQZ115□-□L□1-C3, C4, C6-PR



Unless otherwise indicated, dimensions are the same as Grommet (G).
[] : AC

M-type plug connector (M): VQZ115□-□M□1-C3, C4, C6-PR



Unless otherwise indicated, dimensions are the same as Grommet (G).
[] : AC

Body Ported
Plug Lead Unit

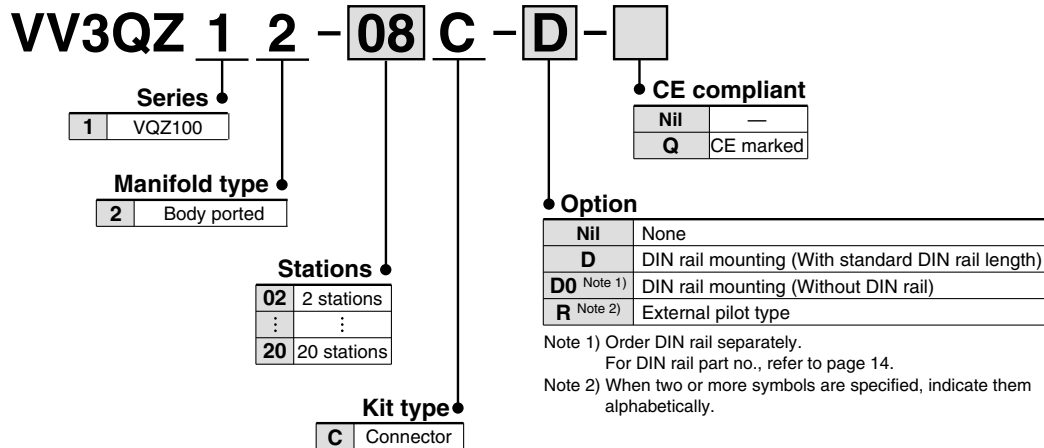
3 Port Solenoid Valve

Series VQZ100/200/300

Manifold Connector Kit

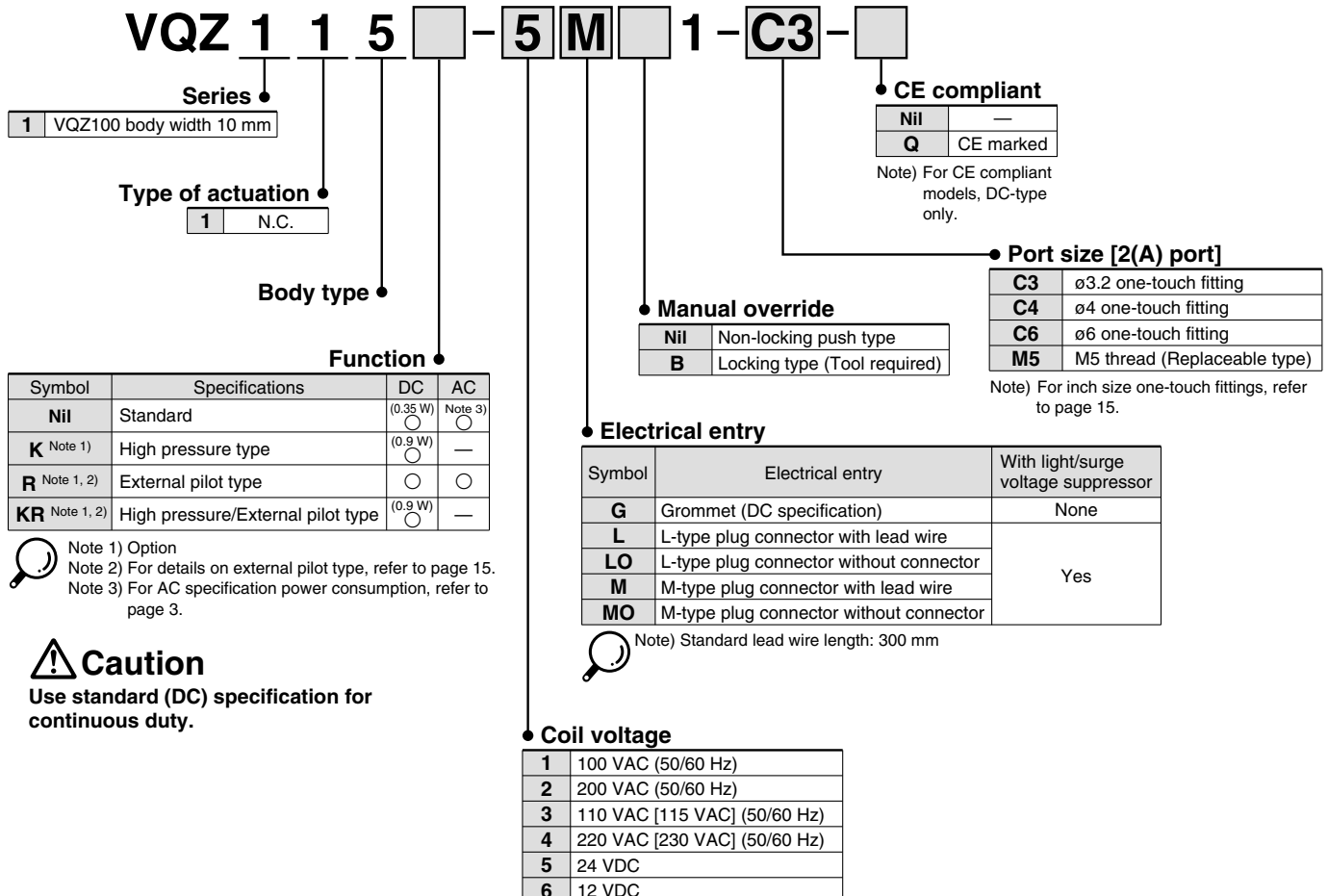


VQZ100 / How to Order Manifold



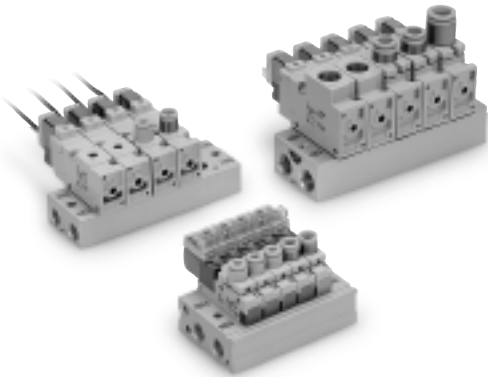
Note) For 1(P), 3(R) of optional thread type, refer to page 15.

VQZ100 / How to Order Valve



Caution
Use standard (DC) specification for continuous duty.

Manifold Specifications



| Series | Base model | Piping specifications | | Applicable solenoid valve | Applicable stations | Manifold base weight (g) |
|--------|-------------|-----------------------|------------|---|---------------------|---|
| | | Piping direction | Port size | | | |
| | | | 1(P), 3(R) | 2(A) | | |
| VQZ100 | VV3QZ12-□□□ | Top | Rc 1/8 | C3 (for ø3.2) C4 (for ø4) C6 (for ø6) M5 (M5 thread) | VQZ115 | 2 to 20 stations 2 stations: 83 Addition per station: 19 |
| VQZ200 | VV3QZ22-□□□ | Top | Rc 1/8 | C4 (for ø4) C6 (for ø6) M5 (M5 thread) | VQZ2□2 | 2 to 20 stations 2 stations: 68 Addition per station: 20 |
| VQZ300 | VV3QZ32-□□□ | Top | Rc 1/4 | C6 (for ø6) C8 (for ø8) C10 (for ø10) Rc 1/4 | VQZ3□2 | 2 to 20 stations 2 stations: 114 Addition per station: 37 |

How to Order Manifold Assembly (Example)

VV3QZ22-05C 1 set (C kit 5-station manifold base part no.)

* **VVQZ200-10A-2** ... 1 set (Blanking plate assembly part no.)

* **VQZ212-5M1-C6** ... 4 sets (N.C. type part no.)

→ The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.

→ Enter in order starting from the first station on the D side.

Add the valve and option part number under the manifold base part number.
When entry of part numbers becomes complicated, indicate by the manifold specification sheet.

Series VQZ100/200/300

Dimensions: VQZ100

VV3QZ12- Stations C

Grommet (G)

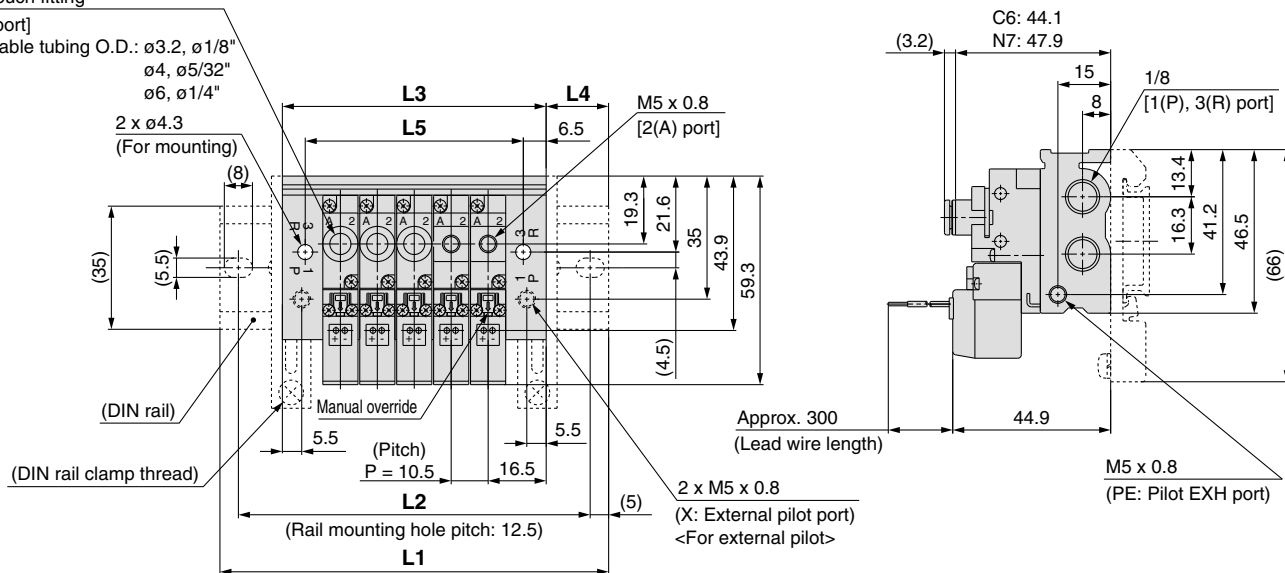
U side

D side

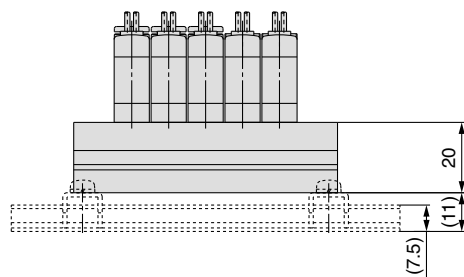
One-touch fitting

[2(A) port]

Applicable tubing O.D.: $\phi 3.2, \phi 1/8"$
 $\phi 4, \phi 5/32"$
 $\phi 6, \phi 1/4"$

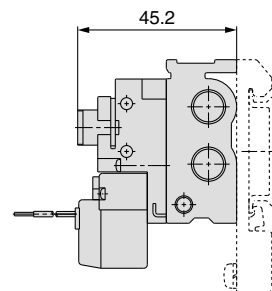


(Station n) --- (Station 1)

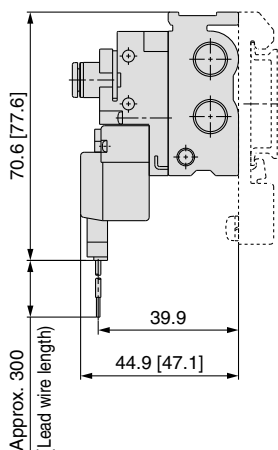


The dashed lines indicate the DIN rail mounting [-D].

M5

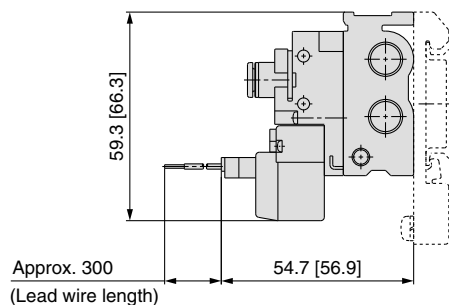


L-type plug connector (L)



Unless otherwise indicated, dimensions are the same as Grommet (G).
 []: AC

M-type plug connector (M)



Unless otherwise indicated, dimensions are the same as Grommet (G).
 []: AC

Dimensions

Formula: $L5 = 10.5n + 9.5$ $L3 = 10.5n + 22.5$ n: Stations (Max. 20 stations)

| L \ n | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 | 85.5 | 85.5 | 98 | 110.5 | 123 | 135.5 | 148 | 148 | 160.5 | 173 | 185.5 | 198 | 210.5 | 210.5 | 223 | 235.5 | 248 | 260.5 | 273 |
| L2 | 75 | 75 | 87.5 | 100 | 112.5 | 125 | 137.5 | 137.5 | 150 | 162.5 | 175 | 187.5 | 200 | 200 | 212.5 | 225 | 237.5 | 250 | 262.5 |
| L3 | 43.5 | 54 | 64.5 | 75 | 85.5 | 96 | 106.5 | 117 | 127.5 | 138 | 148.5 | 159 | 169.5 | 180 | 190.5 | 201 | 211.5 | 222 | 232.5 |
| L4 | 21 | 16 | 17 | 18 | 19 | 20 | 21 | 15.5 | 16.5 | 17.5 | 18.5 | 19.5 | 20.5 | 15.5 | 16.5 | 17.5 | 18.5 | 19.5 | 20.5 |
| L5 | 30.5 | 41 | 51.5 | 62 | 72.5 | 83 | 93.5 | 104 | 114.5 | 125 | 135.5 | 146 | 156.5 | 167 | 177.5 | 188 | 198.5 | 209 | 219.5 |

Manifold Options

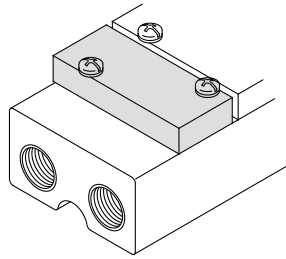
Blanking plate assembly

VVQZ100-10A-5 (for VQZ100)

VVQZ200-10A-2 (for VQZ200)

VVQZ300-10A-2 (for VQZ300)

It is used by attaching on the manifold block for being prepared for removing a valve for maintenance reasons or planning to mount a spare valve, etc.



Blanking plug

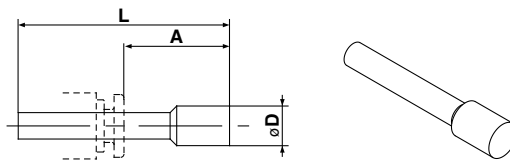
KQ2P-23

KQ2P-04

KQ2P-06

KQ2P-08

KQ2P-10



Dimensions

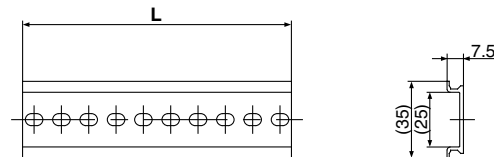
| Applicable fitting size ød | Model | A | L | D |
|----------------------------|----------------|------|------|-----|
| 3.2 | KQ2P-23 | 16 | 31.5 | 3.2 |
| 4 | KQ2P-04 | 16 | 32 | 6 |
| 6 | KQ2P-06 | 18 | 35 | 8 |
| 8 | KQ2P-08 | 20.5 | 39 | 10 |
| 10 | KQ2P-10 | 22 | 43 | 12 |

DIN rail

AXT100-DR-□

* As for □, enter the number from the DIN rail dimensions table.
For L dimension, refer to the dimensions of each kit.

Each manifold can be mounted on a DIN rail.
Insert "D" at the end of the manifold part number.
The DIN rail is approximately 30 mm longer than the length of manifold.



L Dimension

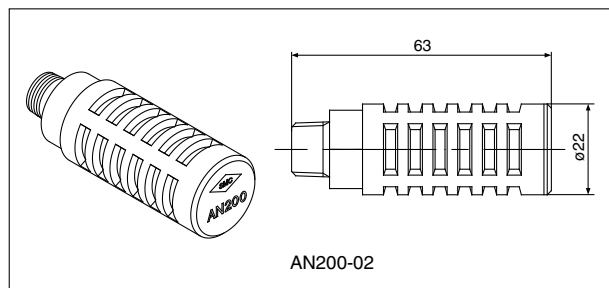
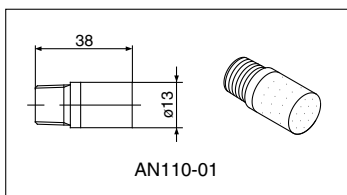
$$L = 12.5n + 10.5$$

| No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------------|----|------|----|------|----|------|----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| L dimension | 23 | 35.5 | 48 | 60.5 | 73 | 85.5 | 98 | 110.5 | 123 | 135.5 | 148 | 160.5 | 173 | 185.5 | 198 | 210.5 | 223 | 235.5 | 248 | 260.5 |

| No. | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
|-------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| L dimension | 273 | 285.5 | 298 | 310.5 | 323 | 335.5 | 348 | 360.5 | 373 | 385.5 | 398 | 410.5 | 423 | 435.5 | 448 | 460.5 | 473 | 485.5 | 498 | 510.5 |

Silencer (for manifold EXH port)

Silencer is installed in the manifold EXH port.



Dimensions

| Model | Silencer part no. |
|---------------|-------------------|
| VQZ100 | AN110-01 |
| VQZ200 | AN110-01 |
| VQZ300 | AN200-02 |



For a silencer to be mounted in a single valve unit, refer to back page 4.

Series VQZ Body Ported

Options

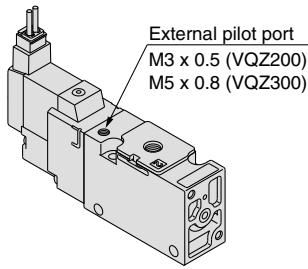
External Pilot Specification

The external pilot specification is used when the operating pressure is below the minimum operating pressure 0.1 to 0.15 MPa or when valve is used for a vacuum application. Order a valve by adding the external pilot specification [R] to the part number.

Valve Part No.



• Entry is the same as standard products.



Pressure Specifications

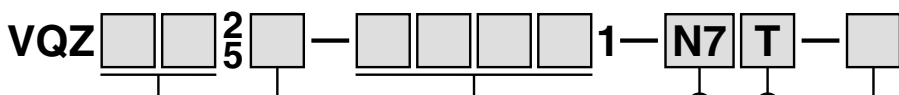
| Series | | VQZ100 ^{Note 2)} | VQZ200/300 |
|--|------------------------------|---------------------------|-----------------|
| ^{Note 1)} External pilot pressure range | Metal seal | — | 0.1 to 0.7 MPa |
| | Rubber seal (VQZ100: poppet) | 0.2 to 0.7 MPa | 0.15 to 0.7 MPa |
| Operating pressure range ^{Note 1)} | | -100 kPa to 0.7 MPa | |

Note 1) In case of the high pressure type, upper limit of max. operating pressure and external pilot pressure range is 1 MPa.
Note 2) Pump down from 1(P) port when VQZ100 series vacuum type is specified. Apply pressure from 3(R) port to relieve vacuum pressure. Set the release pressure at 50% of external pilot pressure or less.

Inch Size One-touch Fittings and Optional Threads

Inch size one-touch fittings and NPT, NPTF and G thread are available.

Valve Part No.



• Entry is the same as standard products.

| | | Cylinder port | | | | | | |
|-------------------------------|--------|---------------|--------|-------|--------|-------|-----------|------------|
| Symbol | | N1 | N3 | N7 | N9 | N11 | M5 | O2 |
| Applicable tubing O.D. (Inch) | | ø1/8" | ø5/32" | ø1/4" | ø5/16" | ø3/8" | M5 thread | 1/4 thread |
| 2(A) port | VQZ100 | ● | ● | ● | — | — | ● | — |
| | VQZ200 | — | ● | ● | — | — | ● | — |
| | VQZ300 | — | — | ● | ● | ● | — | ● |

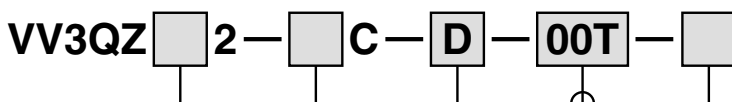
• Thread type (Cylinder port and 1(P), 3(R) ports)

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

Note 1) 3(R) port of the VQZ200 is only G1/16.
Note 2) Except VQZ100

Note) Metric size one-touch fittings (□) are also available.

Manifold Part No.



• Entry is the same as standard products.

• Thread type (1(P), 3(R) ports)

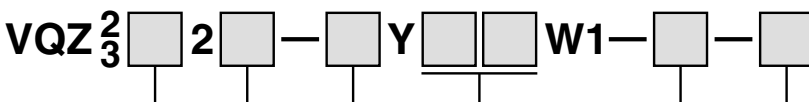
| | |
|-----|------|
| Nil | Rc |
| 00N | NPT |
| 00T | NPTF |
| 00F | G |

IP65 Enclosure (Based on IEC529)

DIN terminal is available with IP65 enclosure.

Valve Part No.

(Applicable to the VQZ200/300 rubber seal with the exception of the external pilot type)



• Entry is the same as standard products.

Note) The pilot exhaust IP65 valves is common with main valve exhaust. (The standard valve has an individual exhaust for the pilot valve.)

Replacement Parts

One-touch Fitting Assembly (for Cylinder port)

| Fitting size | C3 | C4 | C6 | C8 | C10 | M5 (VQZ100 only) |
|-------------------|----------------|----------------|----------------|----------------|-----------------|------------------|
| VQZ100/200 | VVQ1000-50A-C3 | VVQ1000-50A-C4 | VVQ1000-50A-C6 | — | — | VVQ1000-50A-M5 |
| VQZ300 | — | — | VVQ1000-51A-C6 | VVQ1000-51A-C8 | VVQ1000-51A-C10 | — |

Note) Purchasing order is available in units of 10 pieces.

<Plug connector assembly>

DC: SY100-30-4A-

100 VAC: SY100-30-1A-

200 VAC: SY100-30-2A-

Other AC voltages: SY100-30-3A-

Without lead wire: SY100-30-A
(with connector and 2 sockets only)

Lead wire length

| Symbol | Length |
|--------|---------|
| Nil | 300 mm |
| 6 | 600 mm |
| 10 | 1000 mm |
| 15 | 1500 mm |
| 20 | 2000 mm |
| 25 | 2500 mm |
| 30 | 3000 mm |
| 50 | 5000 mm |

How to Order

Include the connector assembly part number together with the part number for the plug connector's solenoid valve without connector.

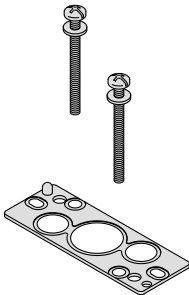
Example) In case of 2000 mm of lead wire

DC VQZ115-5LO1-M5-PR SY100-30-4A-20
AC VQZ115-1LO1-M5-PR SY100-30-1A-20

<Gasket and screw assembly>

| Model | Part no. |
|---------------|-------------|
| VQZ100 | VQZ100-GS-2 |
| VQZ200 | VQZ200-GS-2 |
| VQZ300 | VQZ300-GS-2 |

Note) Above part number consists of 10 units. Each unit has one gasket and two screws. Purchasing order is available in units of 10 pieces.



<Pilot valve assembly>

V111 — 5 G

| Symbol | Specifications | DC | AC |
|------------------------|--|------------|----|
| Nil | Standard | (0.35 W) ○ | ○ |
| B <small>Note)</small> | High speed response type (Applicable to VQZ200/300) | (0.9 W) ○ | — |
| K <small>Note)</small> | High pressure type (Applicable to Metal seal type, Poppet seal type) | (0.9 W) ○ | — |

Note) Option

Manual override

| | |
|-----|---------------------------------|
| Nil | None (Applicable to VQZ200/300) |
| M | Yes (Applicable to VQZ100) |

Manual override (Applicable to the VQZ100)

| | |
|-----|-----------------------|
| Nil | Non-locking push type |
| B | Locking slotted type |

Coil voltage

| | |
|---|--------------------|
| 1 | 100 VAC (50/60 Hz) |
| 2 | 200 VAC (50/60 Hz) |
| 3 | 110 VAC (50/60 Hz) |
| 4 | 220 VAC (50/60 Hz) |
| 5 | 24 VDC |
| 6 | 12 VDC |

Electrical entry

| Symbol | DC | AC | Electrical entry | Light/surge voltage suppressor |
|---------|----|----|---|--------------------------------|
| G | — | — | Grommet (DC specification) | None |
| LU LZ | — | — | L-type plug connector with lead wire | Yes |
| LOU LOZ | — | — | L-type plug connector without connector | |
| MU MZ | — | — | M-type plug connector with lead wire | |
| MOU MOZ | — | — | M-type plug connector without connector | |

Note) VQZ pilot valve electrical entry (L, M) is the opposite of the how to order of valve body.

| Valve model | Pilot valve model |
|--------------|-------------------|
| VQZ115□-□L□1 | V111□M-□M□ |
| VQZ115□-□M□1 | V111□M-□L□ |

<Bracket assembly>

| Model | Part no. | Tightening torque (N·m) <small>Note)</small> |
|---------------|-----------|--|
| VQZ100 | VQZ100-FB | 0.45 to 0.55 |
| VQZ200 | VQZ200-FB | 0.25 to 0.35 |
| VQZ300 | VQZ300-FB | 0.25 to 0.35 |

Note) Tightening torque when mounting a bracket on the valve.

<DIN terminal type (Applicable to the VQZ200/300)>

V115 — 5 Y — X110

| Symbol | Specifications | DC | AC |
|------------------------|---|------------|----|
| Nil | Standard | (0.35 W) ○ | ○ |
| B <small>Note)</small> | High speed response type | (0.9 W) ○ | — |
| K <small>Note)</small> | High pressure type (Metal seal type only) | (0.9 W) ○ | — |

Note) Option

Coil voltage

| | |
|---|--------------------|
| 1 | 100 VAC (50/60 Hz) |
| 2 | 200 VAC (50/60 Hz) |
| 3 | 110 VAC (50/60 Hz) |
| 4 | 220 VAC (50/60 Hz) |
| 5 | 24 VDC |
| 6 | 12 VDC |

Electrical entry

| Symbol | Electrical entry | Light/surge voltage suppressor |
|--------------------------|--|--------------------------------|
| Y | DIN terminal | None |
| YO | DIN terminal without connector | |
| YZ | DIN terminal with light/surge voltage suppressor | Yes |
| YS <small>Note)</small> | DIN terminal with surge voltage suppressor (DC specification) | Yes (Without light) |
| YOS <small>Note)</small> | DIN terminal with surge voltage suppressor, without connector (DC specification) | |

Note) For AC voltage valves there is no "S" option. It is already built-in to the rectifier circuit.

Caution

When replacing only the pilot valve assembly, use caution because it is not possible to convert to a V115 (DIN terminal) from a V111 (Grommet, L-type, M-type), or vice versa.