ISO Standard Solenoid Valve: Size 1, 2 Metal Seal/Rubber Seal

**Series VQ7-6/7-8**

- Enclosure IP65 compliant
- Dusttight/Low jetproof type
- Conforms to ISO standard 5599/1 Interface conforms to ISO standard Size 1 (VQ7-6) and Size 2 (VQ7-8).

**Outstanding high speed response and long service life**

- Enclosure IP65 compliant
- Dusttight/Low jetproof type

**Outstanding high speed response**
- Lighter weight (Compared with previous series)
  - Size 1 (3 position) 0.48 kg ···24% less
  - Size 2 (3 position) 0.75 kg ···15% less

**Conforms to ISO standard 5599/1**

**A wide variety of manifold options**
- Manifolds can be configured with a wide range of interface options to meet a variety of application requirements.

**Lighter weight**
- Size 1 (3 position) 0.48 kg ···24% less
- Size 2 (3 position) 0.75 kg ···15% less

**Space-saving profile**
- Installation space······13% reduction
- Installation volume····10% reduction
  (Compared with previous series)

**Choice of metal or rubber seal increases compatibility with various operating and environmental conditions.**
**Precautions 1**

Be sure to read before handling. For Safety Instructions and Solenoid Valve Precautions, refer to page 3-13-2.

---

### Manual Override Operation

**Warning**
Since connected equipment will be actuated when the manual override is operated, first confirm that conditions are safe.

Push type (Tool required)

---

**Installation and Removal of Pilot Valve Cover**

**Caution**

**Installation and Removal of Pilot Valve Cover**

- **Removal**
  To remove the pilot valve cover, spread the cover's hook outward about 1 mm with a flat head screwdriver, and pull the cover straight off. If it is pulled off at an angle, the pilot valve may be damaged or the protective O-ring may be scratched.

- **Installation**
  Put the cover back on straight without touching the pilot valve, and push it all the way until the cover's hook locks, without twisting the protective O-ring. (When pushed in, the hook opens and locks automatically.)

---

### Mounting of Valves

**Caution**
After confirming the gasket is correctly placed under the valve, securely tighten the bolts with the proper torque shown in the table below.

<table>
<thead>
<tr>
<th>Series</th>
<th>Proper tightening torque (N·m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VQ7-6</td>
<td>2.3 to 3.7</td>
</tr>
<tr>
<td>VQ7-8</td>
<td>4.0 to 6.0</td>
</tr>
</tbody>
</table>

---

### Replacement of Pilot Valves

**Caution**

- **Removal**
  1. Remove the sockets which are installed on the pilot valve pins by pulling them straight upward.
  2. Remove the pilot valve mounting screws with a small screwdriver.

- **Installation**
  1. After confirming installation of the gasket, securely tighten the mounting screws with the proper torque shown in the table below.
  2. Put the sockets on straight and install them securely so that the receptacle housings touch the coil surface as shown in the drawing below.

  If they are pushed in with excessive force, there is a danger of the sockets coming off of the receptacle housings. Confirm that the sockets do not protrude from the windows on the side of the receptacle housings.

---

**Mounting bolt (VQ7-6: M5)**

**Mounting screw**

**Socket**

**Coil**

**Receptacle**

**Window**
How to Wire DIN Terminal

**ISO#: DIN 43650 A compatible**

**Connection**
1. Loosen the top screw and remove the connector housing from the terminal spades on the solenoid.
2. Remove the housing screw and insert a screwdriver into the slot area on the underside of the DIN cap and carefully separate block and housing.
3. Loosen the terminal screws (slotted screws) on the terminal block, insert the core of the lead wire into the terminal in accordance with the prescribed connection method, and attach securely with the terminal screws.
4. Tighten the ground nut to secure the wire.

**Change of electrical entry (Orientation)**
After separating terminal block and housing, the cord entry direction can be changed by attaching the housing in the desired direction (4 directions in 90° increments).

**Precautions**
Pull a connector out vertically, never at an angle.

**Applicable cable**
O.D.: ø8 to ø10

---

Using a Pre-wired Connector
4 core wire round type connector (M12) conforming to NECA (Nippon Electric Control Equipment Industries Association) standard 4202

---

**How to Calculate the Flow Rate**
For obtaining the flow rate, refer to page 3-1-10.

---

Precautions 2

Be sure to read before handling. For Safety Instructions and Solenoid Valve Precautions, refer to page 3-13-2.

---

**Internal Wiring Specifications**

**Caution**

**ISO#: DIN 43650 A compatible**

**Connection**

**100 VAC: Single**

1. SOLA
2. 3(1)
3. ZNR
4. 1(4)

**100 VAC: Double**

1. COM
2. ZNR
3. ZNR
4. 1(4)

**200 VAC or more: Single**

1. COM
2. ZNR
3. ZNR
4. 1(4)

**200 VAC or more: Double**

1. COM
2. ZNR
3. ZNR
4. 1(4)

Terminal numbers in the circuits are for a DIN connector. Numbers inside ( ) are pre-wired connector pin numbers.
### Cylinder Speed Chart

Use as a guide for selection. Please confirm the actual conditions with SMC Sizing Program.

<table>
<thead>
<tr>
<th>Series</th>
<th>Average speed (mm/s)</th>
<th>Bore size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Series MB</td>
<td>Series CS1</td>
</tr>
<tr>
<td></td>
<td>Pressure 0.5 MPa</td>
<td>Pressure 0.5 MPa</td>
</tr>
<tr>
<td></td>
<td>Load factor 50%</td>
<td>Load factor 50%</td>
</tr>
<tr>
<td></td>
<td>Stroke 500 mm</td>
<td>Cylinder stroke 1000 mm</td>
</tr>
<tr>
<td>VQ7-6-FG-S-□A02</td>
<td>1000</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>900</td>
<td>900</td>
</tr>
<tr>
<td></td>
<td>800</td>
<td>800</td>
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<tr>
<td></td>
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<tr>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

| VQ7-6-FG-S-□RA02 | 1000                 | 1000      |
|                  | 900                  | 900       |
|                  | 800                  | 800       |
|                  | 700                  | 700       |
|                  | 600                  | 600       |
|                  | 500                  | 500       |
|                  | 400                  | 400       |
|                  | 300                  | 300       |
|                  | 200                  | 200       |
|                  | 100                  | 100       |
|                  | 0                    | 0         |

| VQ7-6-FG-S-□RA03 | 1000                 | 1000      |
|                  | 900                  | 900       |
|                  | 800                  | 800       |
|                  | 700                  | 700       |
|                  | 600                  | 600       |
|                  | 500                  | 500       |
|                  | 400                  | 400       |
|                  | 300                  | 300       |
|                  | 200                  | 200       |
|                  | 100                  | 100       |
|                  | 0                    | 0         |

### Notes:
- Perpendicular, upward actuation
- Horizontal actuation
- It is when the cylinder is extending that is meter-out controlled by speed controller which is directly connected with cylinder, and its needle valve with being fully open.
- The average velocity of the cylinder is what the stroke is divided by the total stroke time.
- Load factor: ((Load weight x 9.8)/Theoretical force) x 100%
### Cylinder Speed Chart

Use as a guide for selection. Please confirm the actual conditions with SMC Sizing Program.

* It is when the cylinder is extending that is meter-out controlled by speed controller which is directly connected with cylinder, and its needle valve with being fully open.

* The average velocity of the cylinder is what the stroke is divided by the total stroke time.

* Load factor: ((Load weight x 9.8)/Theoretical force) x 100%

#### Conditions

<table>
<thead>
<tr>
<th>Series</th>
<th>Base mounted</th>
<th>Conditions</th>
<th>Series MB</th>
<th>Series CS1</th>
</tr>
</thead>
<tbody>
<tr>
<td>VQ7-6-FG-S-RASA02</td>
<td>SGP (Steel pipe) dia. x Length 6A x 1 m</td>
<td>Speed controller</td>
<td>AS4000-02</td>
<td>Silencer</td>
</tr>
<tr>
<td>VQ7-6-FG-S-RASA03</td>
<td>SGP (Steel pipe) dia. x Length 10A x 1 m</td>
<td>Speed controller</td>
<td>AS420-03</td>
<td>Silencer</td>
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<tr>
<td>VQ7-6-FG-S-RARASA02</td>
<td>SGP (Steel pipe) dia. x Length 6A x 1 m</td>
<td>Speed controller</td>
<td>AS4000-02</td>
<td>Silencer</td>
</tr>
<tr>
<td>VQ7-6-FG-S-RARASA03</td>
<td>SGP (Steel pipe) dia. x Length 10A x 1 m</td>
<td>Speed controller</td>
<td>AS420-03</td>
<td>Silencer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Series</th>
<th>Base mounted</th>
<th>Conditions</th>
<th>Series MB</th>
<th>Series CS1</th>
</tr>
</thead>
<tbody>
<tr>
<td>VQ7-8-FG-S-BASA03</td>
<td>SGP (Steel pipe) dia. x Length 10A x 1 m</td>
<td>Speed controller</td>
<td>AS4000-03</td>
<td>Silencer</td>
</tr>
<tr>
<td>VQ7-8-FG-S-BARA03</td>
<td>SGP (Steel pipe) dia. x Length 15A x 1 m</td>
<td>Speed controller</td>
<td>AS4000-03</td>
<td>Silencer</td>
</tr>
<tr>
<td>VQ7-8-FG-S-BARA04</td>
<td>SGP (Steel pipe) dia. x Length 15A x 1 m</td>
<td>Speed controller</td>
<td>AS4000-03</td>
<td>Silencer</td>
</tr>
</tbody>
</table>

#### Bore size

<table>
<thead>
<tr>
<th>Series MB</th>
<th>Series CS1</th>
</tr>
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<tbody>
<tr>
<td>ø50</td>
<td>ø300</td>
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<tr>
<td>ø63</td>
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<td>ø160</td>
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<td>ø180</td>
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<tr>
<td>ø200</td>
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<tr>
<td>ø250</td>
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</tbody>
</table>

#### Perpendicular, upward actuation

#### Horizontal actuation

#### Average speed (mm/s)

<table>
<thead>
<tr>
<th></th>
<th>800</th>
<th>700</th>
<th>600</th>
<th>500</th>
<th>400</th>
<th>300</th>
<th>200</th>
<th>100</th>
<th>0</th>
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</thead>
<tbody>
<tr>
<td>VQ7-6-FG-S-BASA02</td>
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<td></td>
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<tr>
<td>VQ7-6-FG-S-BARA02</td>
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<td></td>
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<tr>
<td>VQ7-6-FG-S-BASA03</td>
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<tr>
<td>VQ7-6-FG-S-BARA03</td>
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<tr>
<td>VQ7-8-FG-S-BASA03</td>
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<tr>
<td>VQ7-8-FG-S-BARA03</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>VQ7-8-FG-S-BARA04</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>VQ7-8-FG-S-BARA04</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Charts

- **Series MB**
- **Series CS1**
- **Pressure 0.5 MPa**
- **Load factor 50%**
- **Cylinder stroke 500 mm**
- **Cylinder stroke 1000 mm**

## Diagram

- SGP (Steel pipe) dia. x Length
- Speed controller
- Silencer
ISO Standard Solenoid Valve: Size 1  
Metal Seal/Rubber Seal, Single Unit  

**Series VQ7-6**

### How to Order Valves

#### VQ7-6 FG S 3  

**Passage symbol**

- (A/B) 4 2  
- (R1)/(P)/(R2)

**Option**

- Nil  
- Option

**Connector**

- Nil  
- DIN terminal block (With connector)  
- O  
- DIN terminal block (Without connector)  
- SC  
- Pre-wired connector

**Sub-plate port size**

- Nil  
- Without sub-plate  
- A02  Side ported Rc 1/4  
- A03  Side ported Rc 3/8  
- B02  Bottom ported Rc 1/4  
- B03  Bottom ported Rc 3/8  
- Port R is Rc 3/8

**Thread type**

- Nil  
- F  
- G  
- T  
- NPTF

**Seal**

- Nil  
- Metal seal  
- R  
- Rubber seal

**Option**

- Nil  
- None  
- Z  Light/Surge voltage suppressor  
- V  Individual pilot exhaust  
- When two or more symbols are specified, indicate them alphabetically.

**Coil rated**

- 1  100 VAC  
- 2  200 VAC  
- 3  24 VDC  
- 4  12 VDC  
- 9  Other voltages  
- For other voltages, please contact SMC separately.

### How to Order Sub-plate

#### VS7-1 A02  

**Port size**

- A02  Side ported RC 1/4  
- A03  Side ported Rc 3/8  
- B02  Bottom ported Rc 1/4  
- B03  Bottom ported Rc 3/8  
- Port 3(R2) and 5(R1) are Rc 3/8

**Thread type**

- Nil  
- F  
- G  
- T  
- NPTF

### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Piping location</th>
<th>Porting specifications</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VS7-1-A02</td>
<td>Side</td>
<td>1/4, 2(B), 3(R2), 5(R1)</td>
<td>0.37</td>
</tr>
<tr>
<td>VS7-1-A03</td>
<td>Side</td>
<td>3/8</td>
<td></td>
</tr>
<tr>
<td>VS7-1-B02</td>
<td>Bottom</td>
<td>1/4</td>
<td></td>
</tr>
<tr>
<td>VS7-1-B03</td>
<td>Bottom</td>
<td>3/8</td>
<td></td>
</tr>
</tbody>
</table>
ISO Standard Solenoid Valve: Size 1  
Metal Seal/Rubber Seal Series VQ7-6

**Model**

<table>
<thead>
<tr>
<th>Series</th>
<th>Number of positions</th>
<th>Model</th>
<th>Flow characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>VQ7-6</td>
<td>2 position Single</td>
<td>Metal seal VQ7-6-FG-S-□</td>
<td>1 → 4/2 (P → A/B)</td>
</tr>
<tr>
<td></td>
<td>2 position Double</td>
<td>Rubber seal VQ7-6-FG-S-□R</td>
<td>4/2 → 5/3 (A/B → EA/EB)</td>
</tr>
<tr>
<td></td>
<td>3 position Closed</td>
<td>Metal seal VQ7-6-FHG-D-□</td>
<td></td>
</tr>
<tr>
<td></td>
<td>center</td>
<td>Rubber seal VQ7-6-FHG-D-□R</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 position Double</td>
<td>Metal seal VQ7-6-FPG-D-□</td>
<td></td>
</tr>
<tr>
<td></td>
<td>check</td>
<td>Rubber seal VQ7-6-FPG-D-□R</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pressure center</td>
<td>Metal seal VQ7-6-FIG-D-□</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rubber seal VQ7-6-FIG-D-□R</td>
<td></td>
</tr>
</tbody>
</table>

### Valve specifications
- **Valve construction**: Metal seal/Rubber seal
- **Fluid**: Air/Inert gas
- **Maximum operating pressure**: 1.0 MPa
- **Min. operating pressure**: Single 0.15 MPa, Double 0.15 MPa, 3 position 0.15 MPa
- **Ambient and fluid temperature**: –10 to 60°C, –5 to 60°C
- **Ambient temperature range**: –15 to 60°C
- **Force on armature**: 22 to 35 mN
- **Lubrication**: Not required
- **Manual override**: Push type (Tool required)
- **Shock/Vibration resistance**: 150 to 300 m/s² (2)
- **Enclosure**: IP55 (Dusttight, Low jetproof)
- **Coil rated voltage**: 12 VDC, 24 VDC, 100 VAC, 110 VAC, 200 VAC, 220 VAC (50/60 Hz)
- **Allowable voltage fluctuation**: ±10% of rated voltage
- ** Coil insulation type**: Class B or equivalent
- **Power consumption (Current)**: 1 W DC (42 mA)

### Standard Specifications

**Valve construction**  
- Metal seal  
- Rubber seal  

**Fluid**  
- Air/Inert gas  

**Maximum operating pressure**  
- 1.0 MPa  

**Min. operating pressure**  
- Single 0.15 MPa  
- Double 0.15 MPa  
- 3 position 0.15 MPa  

**Ambient and fluid temperature**  
- –10 to 60°C  
- –5 to 60°C  

**Ambient temperature range**  
- –15 to 60°C  

**Force on armature**  
- 22 to 35 mN  

**Lubrication**  
- Not required  

**Manual override**  
- Push type (Tool required)  

**Shock/Vibration resistance**  
- 150 to 300 m/s² (2)  

**Enclosure**  
- IP55 (Dusttight, Low jetproof)  

**Coil rated voltage**  
- 12 VDC, 24 VDC, 100 VAC, 110 VAC, 200 VAC, 220 VAC (50/60 Hz)  

**Allowable voltage fluctuation**  
- ±10% of rated voltage  

**Coil insulation type**  
- Class B or equivalent  

**Power consumption (Current)**  
- 1 W DC (42 mA)  
- 1 W DC (83 mA)  
- Inrush 1.2 VA (12 mA), Holding 1.2 VA (12 mA)  
- Inrush 1.3 VA (11.7 mA), Holding 1.3 VA (11.7 mA)  
- Inrush 1.2 VA (12 mA), Holding 2.4 VA (12 mA)  
- Inrush 2.6 VA (11.7 mA), Holding 2.6 VA (11.7 mA)  

**Coil specifications**  
- 24 VDC  
- 1 W DC (42 mA)  

**Note**
- Use dry air to prevent condensation when operating at low temperatures.
- 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. (Values at the initial period)
- Vibration resistance: No malfunction occurred in a one-sweep test between 45 and 2000 Hz. Test was performed at both energized and de-energized states in the axial direction and at the right angles to the main valve and armature. (Values at the initial period)
Series VQ7-6

DIN Terminal Type

2 position single: VQ7-6-FG-S
   single (Reverse pressure): VQ7-6-YZ-S

2 position double: VQ7-6-FG-D
   double (Reverse pressure): VQ7-6-YZ-D

3 position closed center: VQ7-6-FHG-D
   exhaust center: VQ7-6-FJG-D
   pressure center: VQ7-6-FIG-D

G1/2 (Cable ø 8 to ø 10)

Manual override

Indicator light

Mounting hole

Bottom ported drawing

X (PE) port

1/8

25

1/4, 3/8

R1, R2 port

P port

2-3/8

25

2-1/8

2-1/8

2-3/8

25

2-3/8

25

25

2-3/8

25

2-3/8

25

2-3/8

25
Prewired Connector Type

2 position single: VQ7-6-FG-S□□□□SC
single (Reverse pressure): VQ7-6-YZ-S□□□□SC

2 position double: VQ7-6-FG-D-□□□□SC
double (Reverse pressure): VQ7-6-YZ-D-□□□□SC

3 position closed center: VQ7-6-FHG-D-□□□□SC
exhaust center: VQ7-6-FJG-D-□□□□SC
pressure center: VQ7-6-FIG-D-□□□□SC
Series VQ7-6
Construction

DIN Terminal Type

Metal seal type
VQ7-6-FG-S-

Rubber seal type
VQ7-6-FG-S-R-

VQ7-6-FG-D-

VQ7-6-FG-D-R-

VQ7-6-FPG-D-

VQ7-6-FPG-D-R-

Replacement Parts (For valve)

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>VQ7-6-FG-S-</th>
<th>VQ7-6-FG-D-</th>
<th>VQ7-6-FPG-D-</th>
<th>VQ7-6-FG-S-R-</th>
<th>VQ7-6-FG-D-R-</th>
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</thead>
<tbody>
<tr>
<td>1</td>
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<td></td>
<td></td>
<td>AXT500-13</td>
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<tr>
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<td>VQ7060-13-2</td>
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<tr>
<td>3</td>
<td>Gasket B</td>
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<tr>
<td>4</td>
<td>Gasket C</td>
<td>VQ7060-13-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>O-ring</td>
<td></td>
<td></td>
<td></td>
<td>37 x 1.6</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Mini Y seal</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MYN-11</td>
</tr>
<tr>
<td>7</td>
<td>Pilot valve assembly</td>
<td></td>
<td></td>
<td></td>
<td>VQZ110Q-</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Double check spacer</td>
<td></td>
<td></td>
<td></td>
<td>VV71-FPG</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>DiN terminal</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>UKL-S1</td>
</tr>
</tbody>
</table>
Series VQ7-6
Manifold Specifications

How to Order Manifold

1. **Stations**
   - 1 station
   - 10 stations
   - Note: When equipped with control unit, 1 or 2 stations are used for mounting.

2. **2 (B), 4 (A) port connection**
   - 02R: Rc 1/4 (Right side)
   - 03R: Rc 3/8 (Right side)
   - 02L: Rc 1/4 (Left side)
   - 03L: Rc 3/8 (Left side)
   - 02Y: Rc 1/4 (Bottom side)
   - 03Y: Rc 3/8 (Bottom side)
   - C6R: One-touch fitting ø6 (Right side)
   - C8R: One-touch fitting ø8 (Right side)
   - C10R: One-touch fitting ø10 (Right side)
   - C6L: One-touch fitting ø6 (Left side)
   - C8L: One-touch fitting ø8 (Left side)
   - C10L: One-touch fitting ø10 (Left side)
   - Note: When ports are mixed, indicate piping specifications by means of the manifold specification sheet.

3. **Thread type**
   - Rc 1/4
   - Rc 3/8
   - Note: It is not applicable to One-touch fittings.

4. **Control unit type**
   - See pages 3-10-18 and 19 for details.

5. **Silencer box**
   - Nil
   - SB
   - Note: The silencer box mounting position corresponds to piping connection at ports 3 (R2) and 5 (R1).

6. **Air release valve coil rating**
   - Nil
   - None
   - 100 VAC, 50/60 Hz
   - 200 VAC, 50/60 Hz
   - 24 VDC
   - 12 VDC
   - Other

7. **Porting specifications**
   - Port location
     - Right, Left
     - Bottom
   - Port size
     - 1/4
     - 3/8
     - C6 ø6
     - C8 ø8
     - C10 ø10
   - Note: Max. 10 stations
   - Weight (kg)
     - 0.43n + 0.49 (n: stations)

8. **Control equipment**
   - Symbol
     - Nil
     - A
     - AP
     - M
     - MP
     - F
     - G
     - C
     - E
   - Air filter with auto-drain
   - Air filter with manual drain
   - Regulator
   - Pressure switch
   - Blanking plate (Air release valve)
   - Blanking plate (Filter, Regulator)
   - Blanking plate (Pressure switch)

Manifold Specifications

<table>
<thead>
<tr>
<th>Manifold block size</th>
<th>Series VQ7-6 ISO size 1</th>
<th>Porting specifications</th>
<th>Stations</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port location</td>
<td>Port size</td>
<td>2(B), 4(A) port size</td>
<td>1(P), 3(R2), 5(R1) port size</td>
<td>Note: Max. 10 stations</td>
</tr>
<tr>
<td>Right, Left</td>
<td>1/4</td>
<td>1/4</td>
<td>0.43n + 0.49 (n: Stations)</td>
<td></td>
</tr>
<tr>
<td>Bottom</td>
<td>1/4</td>
<td>3/8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: When equipped with control unit, 1 or 2 stations are used for mounting.
**Series VQ7-6**

**DIN Terminal Type**

<table>
<thead>
<tr>
<th>L1</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>Formula</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>107</td>
<td>150</td>
<td>193</td>
<td>236</td>
<td>279</td>
<td>322</td>
<td>365</td>
<td>408</td>
<td>451</td>
<td>494</td>
<td>L1 = 43n + 64</td>
</tr>
<tr>
<td>2</td>
<td>119</td>
<td>162</td>
<td>205</td>
<td>248</td>
<td>291</td>
<td>334</td>
<td>377</td>
<td>420</td>
<td>463</td>
<td>506</td>
<td>L2 = 43n + 76</td>
</tr>
</tbody>
</table>

**Bottom ported drawing**

**Formula**

- L1 = 43n + 64
- L2 = 43n + 76
ISO Standard Solenoid Valve: Size 1
Metal Seal/Rubber Seal Series VQ7-6

Prewired Connector Type

**VV71-□-□-□-□**

<table>
<thead>
<tr>
<th>L Dimension</th>
<th>n: Stations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
</tr>
<tr>
<td>L1</td>
<td>107</td>
</tr>
<tr>
<td>L2</td>
<td>119</td>
</tr>
</tbody>
</table>

Diagram of connector type VV71-□-□-□-□ with dimensions and annotations.
Series VQ7-6

Manifold Option Parts

Blanking plate assembly
AXT502-9A

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.

Block disk (For SUP/EXH passages)
AXT502-14

When two or more different high pressures are supplied to one manifold, block disks are installed between stations having different pressures. Also, in cases such as when valve exhaust effects other stations in a circuit, block disks are used for exhaust at stations where the exhaust is to be separated.

Individual SUP spacer
VV71-P-02
Thread type

<table>
<thead>
<tr>
<th>Nil</th>
<th>Rc</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>G</td>
</tr>
<tr>
<td>T</td>
<td>NPTF</td>
</tr>
</tbody>
</table>

By mounting individual SUP spacers on a manifold block, it is possible to provide individual supply ports for each valve.

Individual EXH spacer
VV71-R-02
Thread type

<table>
<thead>
<tr>
<th>Nil</th>
<th>Rc</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>G</td>
</tr>
<tr>
<td>T</td>
<td>NPTF</td>
</tr>
</tbody>
</table>

By mounting individual EXH spacers on a manifold block, exhaust ports can be provided individually for each valve. (3, 5 common EXH type)

Throttle valve spacer
AXT503-23A

A throttle valve spacer is mounted on a manifold block to control cylinder speed by throttling exhaust air flow.

Individual EXH spacer
VV71-R-02
Thread type

<table>
<thead>
<tr>
<th>Nil</th>
<th>Rc</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>G</td>
</tr>
<tr>
<td>T</td>
<td>NPTF</td>
</tr>
</tbody>
</table>

Note) It is not applicable to One-touch fittings.

Block disk (For pilot EXH passage)
AZ503-53A

When a valve’s pilot valve exhaust effects other valves in a circuit, block disks are used between stations where the pilot exhaust passages are to be separated.
Reverse pressure spacer  
**AXT502-21A-1**

- **Thread type**
  - Nil
  - Rc
  - F
  - G
  - T
  - NPTF

With reverse pressure control manifold specifications, when pressure is changed individually on one side (ex. high speed cylinder return), pressure can be supplied individually to the R2 side by mounting a reverse pressure spacer. (Port 3 (R2) is individual and 5 (R1) is common.)

R1, R2 individual EXH spacer  
**VV71-R2-03**

- **Thread type**
  - Nil
  - Rc
  - F
  - G
  - T
  - NPTF

By mounting an individual EXH spacer on a manifold block, individual exhaust is possible from both R1 and R2. (3 (R2) and 5 (R1) are individual ports.)

Main EXH back pressure check plate  
**AXT503-37A**

In cases where back pressure affects actuator operation due to simultaneous operation of manifold valves, etc., this effect can be eliminated by installing a plate between the manifold block and the valve from which back pressure is to be prevented.

Residual pressure release valve spacer  
**VV71-R-AB**

This is used by mounting on a manifold block in order to exhaust the residual pressure trapped inside of a cylinder, etc., during an intermediate stop with a 3 position closed center or perfect type valve. Residual pressure at ports A and B is exhausted individually to the outside by manual operation.

Individual SUP spacer with residual pressure release valve  
**VV71-PR-**

This is used by mounting on a manifold block in order to stop the inlet side supply pressure in an individual supply spacer, while at the same time exhausting the residual pressure are performed by pressing the manual override, which can be locked by turning it.

Adapter plate for locked-up cylinder  
**AXT502-26A**

When using a locked-up cylinder with 2 valves for control, this spacer can be used by mounting on a manifold block. It consists of a circuit equipped with a function to prevent lurching during release.
Series VQ7-6

Manifold Option Parts

Silencer box
VV71-□□□□□□□□-SB

This can be provided as a unit on the end plate to reduce manifold exhaust noise and piping labor.

Pilot EXH silencer
AN110-01

This is used by mounting on the pilot exhaust port in order to reduce manifold and single type pilot exhaust noise, and to prevent the entry of dust.

Release valve spacer
AXT502-17A

Thread type

<table>
<thead>
<tr>
<th>Nil</th>
<th>Rc</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>G</td>
</tr>
<tr>
<td>T</td>
<td>NPTF</td>
</tr>
</tbody>
</table>

This can be provided as a unit on the end plate to reduce manifold exhaust noise and piping labor.
Double check spacer
VV71-FPG

By combining a 3 position exhaust center valve with a double check spacer, an intermediate stopping position of a cylinder can be held for an extended period. It can also be used for drop prevention at the cylinder stroke end when releasing residual supply pressure, by combining it with a 2 position single or double valve.

![Diagram of Double check spacer VV71-FPG](image)

Specifications

<table>
<thead>
<tr>
<th>Double check spacer part no.</th>
<th>VV71-FPG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable solenoid or air operated valve</td>
<td>Series VQ7-6</td>
</tr>
<tr>
<td>Leakage (cm³/min (ANR))</td>
<td></td>
</tr>
<tr>
<td>One solenoid energized (One pilot pressurized)</td>
<td>P</td>
</tr>
<tr>
<td>Both solenoids unenergized (Both pilots unpressurized)</td>
<td>P</td>
</tr>
<tr>
<td></td>
<td>B</td>
</tr>
<tr>
<td></td>
<td>A</td>
</tr>
</tbody>
</table>

Interface regulator
ARB250-00-\(\text{A}^{\text{B}}\)

Spacer Interface regulators can be placed on top of the manifold block to reduce the pressure of each of the valves.

![Diagram of Interface regulator ARB250-00-\(\text{A}^{\text{B}}\)](image)

Double check spacer with residual pressure release valve
VV71-FPGR

This is a double check spacer equipped with a residual pressure release function, to release residual pressure inside a cylinder during maintenance or adjustment, etc.

![Diagram of Double check spacer with residual pressure release valve VV71-FPGR](image)

⚠️ Caution

- Since extended cylinder stops are not possible if there are leaks from piping between the valve and cylinder or from fittings, etc., check for leakage using a neutral liquid detergent.
- Since One-touch fittings allow slight air leakage, screw piping (with M5 thread) is recommended when stopping the cylinder in the middle for a long time.
- This spacer cannot be combined with a 3 position closed center valve.
- Set the load weight so that the cylinder side pressure is less than two times the supply side pressure.
- When using the residual pressure release function, confirm the action of actuators, etc., and operate after providing for safety measures.

Specifications

<table>
<thead>
<tr>
<th>Double check spacer part no.</th>
<th>VV71-FPGR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable solenoid or air operated valve</td>
<td>Series VQ7-6</td>
</tr>
<tr>
<td>Leakage (cm³/min (ANR))</td>
<td></td>
</tr>
<tr>
<td>One solenoid energized (One pilot pressurized)</td>
<td>P</td>
</tr>
<tr>
<td>Both solenoids unenergized (Both pilots unpressurized)</td>
<td>P</td>
</tr>
<tr>
<td></td>
<td>B</td>
</tr>
<tr>
<td></td>
<td>A</td>
</tr>
</tbody>
</table>

Part No.

- P reduced pressure: ARB250-00-P
- A reduced pressure: ARB250-00-A
- B reduced pressure: ARB250-00-B

⚠️ Caution

- When combining a pressure center valve and interface regulator with reduced pressure at ports A and B, use model ARB210-\(\text{A}^{\text{B}}\).
- When combining a reverse pressure valve and interface regulator, use model ARB210-\(\text{A}^{\text{B}}\). Further, it cannot be used with reduced pressure at port P.
- When combining a double check valve and an interface regulator, use a manifold or sub-plate as a basis, and stack them in the following order; the perfect spacer → the interface regulator → the valve.
- When a closed center valve is combined with the interface regulator’s A, B port regulation, note that it cannot be used for intermediate stops of a cylinder because there is leakage from relief port on the regulator.
Control Unit Specifications

<table>
<thead>
<tr>
<th></th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air filter (With auto-drain/With manual drain)</td>
<td>5 µm</td>
</tr>
<tr>
<td>Regulator</td>
<td></td>
</tr>
<tr>
<td>Set pressure (Outlet pressure)</td>
<td>0.05 to 0.85 MPa</td>
</tr>
<tr>
<td>Pressure switch</td>
<td></td>
</tr>
<tr>
<td>Pressure adjustment range</td>
<td>0.1 to 0.7 MPa</td>
</tr>
<tr>
<td>Contact</td>
<td>1 ab</td>
</tr>
<tr>
<td>Rated current</td>
<td>(Induction load) 125 VAC 15 A, 250 VAC 15 A</td>
</tr>
<tr>
<td>Air release valve (Single only)</td>
<td></td>
</tr>
<tr>
<td>Operating pressure range</td>
<td>0.15 to 1.0 MPa</td>
</tr>
</tbody>
</table>

Option

<table>
<thead>
<tr>
<th>Blankling plate</th>
<th>AXT502-9A (For manifold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Release valve adapter plate</td>
<td>AXT502-17A</td>
</tr>
<tr>
<td>Control equipment</td>
<td>VAW-A (Adapter plate, Filter with auto-drain cock, Regulator)</td>
</tr>
<tr>
<td>Pressure switch</td>
<td>VAW-M (Adapter plate, Filter with manual drain cock, Regulator)</td>
</tr>
</tbody>
</table>

Control Unit Type

<table>
<thead>
<tr>
<th>Control equipment</th>
<th>Ordering symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air filter with auto-drain</td>
<td>NII AP M MP F G C E</td>
</tr>
<tr>
<td>Air filter with manual drain</td>
<td>NII AP M MP F G C E</td>
</tr>
<tr>
<td>Regulator</td>
<td>NII AP M MP F G C E</td>
</tr>
<tr>
<td>Air release valve</td>
<td>NII AP M MP F G C E</td>
</tr>
<tr>
<td>Pressure switch</td>
<td>NII AP M MP F G C E</td>
</tr>
<tr>
<td>Blanking plate (Air release valve)</td>
<td>NII AP M MP F G C E</td>
</tr>
<tr>
<td>Blanking plate (Filter, Regulator)</td>
<td>NII AP M MP F G C E</td>
</tr>
<tr>
<td>Blanking plate (Pressure switch)</td>
<td>NII AP M MP F G C E</td>
</tr>
</tbody>
</table>

Use of Control Unit

<Construction and piping>

1. The supply pressure (Po) passes through the regulator with filter and is adjusted to the prescribed pressure. Next, it goes through the release valve (downstream residual pressure switching function used as normally ON) and is supplied to the manifold base side (P).
2. When the release valve is OFF, the supply pressure from port Po is blocked, and the air which was being supplied to the manifold side port P passes through the release valve and is discharged from port R1.
3. The pressure switch is piped into the outlet side of the release valve. (It operates when the release valve is energized.) Also, since there is an internal voltage drop of 4V, it may not be possible to confirm the OFF and ON states with a tester, etc.

Caution

- In the case of air filters with auto-drain or manual drain, mount so that the air filter is at the bottom.
Manifold with control unit

<table>
<thead>
<tr>
<th>L Dimension</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1</td>
<td>107</td>
<td>150</td>
<td>193</td>
<td>236</td>
<td>279</td>
<td>322</td>
<td>365</td>
<td>408</td>
<td>451</td>
<td>494</td>
</tr>
<tr>
<td>L2</td>
<td>119</td>
<td>162</td>
<td>205</td>
<td>248</td>
<td>291</td>
<td>334</td>
<td>377</td>
<td>420</td>
<td>463</td>
<td>506</td>
</tr>
<tr>
<td>L3</td>
<td>255</td>
<td>298</td>
<td>341</td>
<td>384</td>
<td>427</td>
<td>470</td>
<td>513</td>
<td>556</td>
<td>599</td>
<td>642</td>
</tr>
<tr>
<td></td>
<td>(258.5)</td>
<td>(301.5)</td>
<td>(344.5)</td>
<td>(387.5)</td>
<td>(430.5)</td>
<td>(473.5)</td>
<td>(516.5)</td>
<td>(559.5)</td>
<td>(602.5)</td>
<td>(645.5)</td>
</tr>
</tbody>
</table>

$n$: Stations

Formula

$L1 = 43n + 64$
$L2 = 43n + 76$
$L3 = 43n + 212$ (for MP)
Series VQ7-6

Manifold Option Parts

Interface regulator
ARB250-00-

Residual pressure release valve spacer
AZ503-82

Dimensions inside ( ) are for sub-plate.

Throttle valve spacer
AXT503-23A

Silencer box
AXT503-60A

Dimensions inside ( ) are for sub-plate.
Individual SUP spacer: VV71-P-
Individual EXH spacer: VV71-R-
R1, R2 individual EXH spacer: VV71-R2-03
Reverse pressure spacer: AXT502-21A-1

Main EXH back pressure check plate: AXT503-37A

Double check spacer: VV71-FPG
Double check spacer with residual pressure release valve: VV71-FPGR

Residual pressure release valve spacer: VV71-R-AB
Individual SUP spacer with residual pressure release valve: VV71-PR-

Dimensions inside ( ) are for sub-plate.
ISO Standard Solenoid Valve: Size 2
Metal Seal/Rubber Seal, Single Unit

Series VQ7-8

How to Order Valves

VQ7—8 FG S 3

Passage symbol

<table>
<thead>
<tr>
<th>Option</th>
<th>Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>DIN terminal block (With connector)</td>
</tr>
<tr>
<td>SC</td>
<td>DIN terminal block (Without connector)</td>
</tr>
<tr>
<td>O</td>
<td>Pre-wired connector</td>
</tr>
</tbody>
</table>

Sub-plate port size

<table>
<thead>
<tr>
<th>Option</th>
<th>Porting specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>Without sub-plate</td>
</tr>
<tr>
<td>A03</td>
<td>Side ported Rc 3/8</td>
</tr>
<tr>
<td>A04</td>
<td>Side ported Rc 1/2</td>
</tr>
<tr>
<td>A06</td>
<td>Side ported Rc 3/4</td>
</tr>
<tr>
<td>B03</td>
<td>Bottom ported Rc 3/8</td>
</tr>
<tr>
<td>B04</td>
<td>Bottom ported Rc 1/2</td>
</tr>
<tr>
<td>B06</td>
<td>Bottom ported Rc 3/4</td>
</tr>
</tbody>
</table>

Thread type

<table>
<thead>
<tr>
<th>Option</th>
<th>Thread type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>Rc</td>
</tr>
<tr>
<td>F</td>
<td>G</td>
</tr>
<tr>
<td>T</td>
<td>NPTF</td>
</tr>
</tbody>
</table>

Seal

<table>
<thead>
<tr>
<th>Option</th>
<th>Seal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>Metal seal</td>
</tr>
<tr>
<td>R</td>
<td>Rubber seal</td>
</tr>
</tbody>
</table>

Option

<table>
<thead>
<tr>
<th>Option</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z</td>
<td>Light/Surge voltage suppressor</td>
</tr>
<tr>
<td>V</td>
<td>Individual pilot exhaust</td>
</tr>
</tbody>
</table>

* When two or more symbols are specified, indicate them alphabetically.

Coil rated

<table>
<thead>
<tr>
<th>Option</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>100 VAC</td>
</tr>
<tr>
<td>2</td>
<td>200 VAC</td>
</tr>
<tr>
<td>3</td>
<td>24 VDC</td>
</tr>
<tr>
<td>4</td>
<td>12 VDC</td>
</tr>
<tr>
<td>9</td>
<td>Other voltages</td>
</tr>
</tbody>
</table>

* For other voltages, please contact SMC separately.

How to Order Sub-plate

VS7—2 A03

Port size

<table>
<thead>
<tr>
<th>Option</th>
<th>Port size</th>
</tr>
</thead>
<tbody>
<tr>
<td>A03</td>
<td>Side ported Rc 3/8</td>
</tr>
<tr>
<td>A04</td>
<td>Side ported Rc 1/2</td>
</tr>
<tr>
<td>A06</td>
<td>Side ported Rc 3/4</td>
</tr>
<tr>
<td>B03</td>
<td>Bottom ported Rc 3/8</td>
</tr>
<tr>
<td>B04</td>
<td>Bottom ported Rc 1/2</td>
</tr>
<tr>
<td>B06</td>
<td>Bottom ported Rc 3/4</td>
</tr>
</tbody>
</table>

Thread type

<table>
<thead>
<tr>
<th>Option</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>VS7-2-A03</td>
</tr>
<tr>
<td>F</td>
<td>VS7-2-A04</td>
</tr>
<tr>
<td>T</td>
<td>VS7-2-A06</td>
</tr>
</tbody>
</table>

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Porting specifications</th>
<th>Port size</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>Piping location</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VS7-2-A03</td>
<td>Side</td>
<td>3/8</td>
<td>0.68</td>
</tr>
<tr>
<td>VS7-2-A04</td>
<td>1/2</td>
<td></td>
<td>1.29</td>
</tr>
<tr>
<td>VS7-2-A06</td>
<td>3/4</td>
<td></td>
<td>1.29</td>
</tr>
<tr>
<td>VS7-2-B03</td>
<td>Bottom</td>
<td>3/8</td>
<td>0.68</td>
</tr>
<tr>
<td>VS7-2-B04</td>
<td>1/2</td>
<td></td>
<td>1.29</td>
</tr>
<tr>
<td>VS7-2-B06</td>
<td>3/4</td>
<td></td>
<td>1.29</td>
</tr>
</tbody>
</table>

For details about certified products conforming to international standards, visit us at www.smcworld.com.
ISO Standard Solenoid Valve: Size 2
Metal Seal/Rubber Seal Series VQ7-8

Model

<table>
<thead>
<tr>
<th>Series</th>
<th>Number of positions</th>
<th>Model</th>
<th>Flow characteristics 1 → 4/2 (P → A/B)</th>
<th>Flow characteristics 4/2 → 5/3 (A/B → EA/EB)</th>
<th>Response time (ms)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VQ7-8</td>
<td>2 position</td>
<td>Metal seal VQ7-8-FG-S- قادر</td>
<td>10 0.18 2.4 12 0.24 3.0</td>
<td>40 or less</td>
<td>0.64</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Double</td>
<td>Rubber seal VQ7-8-FG-S- قادر</td>
<td>12 0.24 3.0 13 0.27 3.3</td>
<td>45 or less</td>
<td>0.70</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 position</td>
<td>Single</td>
<td>10 0.18 2.4 12 0.24 3.0</td>
<td>15 or less</td>
<td>0.75</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Double</td>
<td>Metal seal VQ7-8-FG-D- قادر</td>
<td>12 0.24 3.0 13 0.27 3.3</td>
<td>20 or less</td>
<td>1.98</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Closed center</td>
<td>Metal seal VQ7-8-FHG-D- قادر</td>
<td>10 0.28 2.4 10 0.24 2.4</td>
<td>45 or less</td>
<td>0.75</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Exhaust center</td>
<td>Rubber seal VQ7-8-FHG-D- قادر</td>
<td>11 0.25 2.8 11 0.27 2.8</td>
<td>50 or less</td>
<td>0.75</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Double check</td>
<td>Metal seal VQ7-8-FPG-D- قادر</td>
<td>10 0.16 2.4 10 0.20 2.4</td>
<td>45 or less</td>
<td>0.75</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pressure center</td>
<td>Metal seal VQ7-8-FIG-D- قادر</td>
<td>7.2 — — 7.0 — —</td>
<td>60 or less</td>
<td>0.75</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rubber seal VQ7-8-FG-D- قادر</td>
<td>7.2 — — 7.0 — —</td>
<td>60 or less</td>
<td>0.75</td>
<td></td>
</tr>
</tbody>
</table>

Note 1) Based on JIS B 8375-1981 (Value for supply pressure of 0.5 MPa, with light/surge voltage suppressor, when using clean air.) Response time values will change depending on pressure and air quality. Value when ON for double type.

Note 2) Weight without sub-plate. (Sub-plate: Rc 3.8, 1/2: 0.68 kg, Rc 3/4: 1.29 kg)

Standard Specifications

- Valve construction: Metal seal, Rubber seal
- Fluid: Air/Inert gas
- Maximum operating pressure: 1.0 MPa
- Minimum operating pressure: Single 0.15 MPa, Double 0.15 MPa, 3 position 0.15 MPa
- Ambient and fluid temperature: -10 to 60°C (1), -5 to 60°C (1)
- Lubrication: Not required
- Manual override: Push type (Tool required)
- Shock/Vibration resistance: 150/30 m/s² (2)
- Enclosure: IP65 (Dusttight, Low jetproof)
- Coil rated voltage: 12 VDC, 24 VDC, 100 VAC, 110 VAC, 200 VAC, 220 VAC (50/60 Hz)
- Allowable voltage fluctuation: ±10% of rated voltage
- Coil insulation type: Class B or equivalent
- Power consumption (Current): 24 VDC 1 W DC (42 mA), 12 VDC 1 W DC (83 mA), 100 VAC Inrush 1.2 VA (12 mA), Holding 1.2 VA (12 mA), 110 VAC Inrush 1.3 VA (11.7 mA), Holding 1.3 VA (11.7 mA), 200 VAC Inrush 2.4 VA (12 mA), Holding 2.4 VA (12 mA), 220 VAC Inrush 2.6 VA (11.7 mA), Holding 2.6 VA (11.7 mA)

Note 1) Use dry air to prevent condensation when operating at low temperatures.

Note 2) 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. (Values at the initial period)

Vibration resistance: No malfunction occurred in a one-sweep test between 45 and 2000 Hz. Test was performed at both energized and de-energized states in the axial direction and at the right angles to the main valve and armature. (Values at the initial period)
Series VQ7-8

DIN Terminal Type

2 position single:
- VQ7-8-FG-S
- VQ7-8-YZ-S (Reverse pressure)

2 position double:
- VQ7-8-FG-D
- VQ7-8-YZ-D (Reverse pressure)

3 position closed center:
- VQ7-8-FHG-D
- VQ7-8-FJG-D (Exhaust center)
- VQ7-8-FIG-D (Pressure center)

Dimensions inside are for rubber seals.
Prewired Connector Type

2 position single : VQ7-8-FG-S-□□□□□SC
   single (Reverse pressure): VQ7-8-YZ-S-□□□□□SC

3 position closed center : VQ7-8-FHG-D-□□□□□SC
  exhaust center : VQ7-8-FJG-D-□□□□□SC
  pressure center: VQ7-8-FIG-D-□□□□□SC

Dimensions inside are for rubber seals.
Series VQ7-8
Construction

DIN Terminal Type

Metal seal

<table>
<thead>
<tr>
<th>Description</th>
<th>VQ7-8-FG-S-</th>
<th>VQ7-8-FG-D-</th>
<th>VQ7-8-FPG-D-</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gasket</td>
<td>AXT510-13</td>
<td>VQ7060-13-2</td>
<td>VQ7080-13-3</td>
</tr>
<tr>
<td>Gasket A</td>
<td>VQ7060-13-2</td>
<td>VQ7080-13-1</td>
<td>VQ7080-13-3</td>
</tr>
<tr>
<td>Gasket B</td>
<td>VQ7080-13-1</td>
<td>VQ7080-13-3</td>
<td>VQ7080-13-3</td>
</tr>
<tr>
<td>Gasket C</td>
<td>VQ7080-13-3</td>
<td>VQ7080-13-3</td>
<td>VQ7080-13-3</td>
</tr>
<tr>
<td>O-ring</td>
<td>37 x 1.6</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Mini Y seal</td>
<td>MYN-16</td>
<td>MYN-14</td>
<td>—</td>
</tr>
<tr>
<td>Pilot valve assembly</td>
<td>VQZ110Q-□</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Double check spacer</td>
<td>—</td>
<td>VV72-FPG</td>
<td>—</td>
</tr>
<tr>
<td>DIN terminal</td>
<td>UKL-S1</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

Rubber seal type

<table>
<thead>
<tr>
<th>Description</th>
<th>VQ7-8-FG-S-R-</th>
<th>VQ7-8-FG-D-R-</th>
<th>VQ7-8-FPG-D-R-</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gasket A</td>
<td>MYN-16</td>
<td>MYN-14</td>
<td>—</td>
</tr>
<tr>
<td>O-ring</td>
<td>37 x 1.6</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Pilot valve assembly</td>
<td>VQZ110Q-□</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Double check spacer</td>
<td>—</td>
<td>VV72-FPG</td>
<td>—</td>
</tr>
<tr>
<td>DIN terminal</td>
<td>UKL-S1</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

Replacement Parts (For valve)
# Series VQ7-8

## Manifold Specifications

### How to Order Manifold

**VV72 6**

- **Stations**
  - 1: 1 station
  - 10: 10 stations

### Air release valve

- **coil rating**
  - None
  - 100 VAC, 50/60 Hz
  - 200 VAC, 50/60 Hz
  - 24 VDC
  - 12 VDC
  - Other

### Thread type

- **Nil**
- **Rc**
- **F**
- **G**
- **T**
- **NPTF**

### Silencer box

- **Nil**
- **SB**
  - None
  - With

**Note** The mounting position of the silencer box corresponds to 3 (R2) and 5 (R1) port connections.

### 1(P), 3(R2), 5(R1) port connection

- **04D**: Rc 1/2 (Bottom side)
- **04U**: Rc 1/2 (Top side)
- **04B**: Rc 1/2 (Both sides)
- **06D**: Rc 3/4 (Bottom side)
- **06U**: Rc 3/4 (Top side)
- **06B**: Rc 3/4 (Both sides)

### 2(B), 4(A) port connection

- **03R**: Rc 1/4 (Right side)
- **04R**: Rc 1/2 (Right side)
- **03L**: Rc 1/4 (Left side)
- **04L**: Rc 1/2 (Left side)
- **03Y**: Rc 1/4 (Bottom side)
- **04Y**: Rc 1/2 (Bottom side)
- **Mixed**

**Note** When ports are mixed, indicate piping specifications by means of the manifold specification sheet.

### Manifold Specifications

<table>
<thead>
<tr>
<th>Manifold block size</th>
<th>Applicable solenoid valve</th>
<th>Porting specifications</th>
<th>Stations</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISO size 2</td>
<td>Series VQ7-8</td>
<td>2(B), 4(A) port size</td>
<td>1(P), 3(R2), 5(R1) port size</td>
<td>Max. 10 stations</td>
</tr>
</tbody>
</table>
**Series VQ7-8**

**DIN Terminal Type**

**VV72-**

### L Dimension

<table>
<thead>
<tr>
<th>P, R1, R2 port</th>
<th>1/2</th>
<th>3/4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L1</td>
<td>L2</td>
</tr>
<tr>
<td>1</td>
<td>120</td>
<td>136</td>
</tr>
<tr>
<td>2</td>
<td>176</td>
<td>192</td>
</tr>
<tr>
<td>3</td>
<td>232</td>
<td>248</td>
</tr>
<tr>
<td>4</td>
<td>288</td>
<td>304</td>
</tr>
<tr>
<td>5</td>
<td>344</td>
<td>360</td>
</tr>
<tr>
<td>6</td>
<td>400</td>
<td>416</td>
</tr>
<tr>
<td>7</td>
<td>456</td>
<td>472</td>
</tr>
<tr>
<td>8</td>
<td>512</td>
<td>528</td>
</tr>
<tr>
<td>9</td>
<td>568</td>
<td>584</td>
</tr>
<tr>
<td>10</td>
<td>624</td>
<td>640</td>
</tr>
</tbody>
</table>

**Formula**

- For L1: \( L1 = 56n + 64 \)
- For L2: \( L2 = 56n + 80 \)
- For L1: \( L1 = 56n + 90 \)
- For L2: \( L2 = 56n + 106 \)

**Note:** Dimensions inside ( ) are for rubber seals.

---

**Bottom ported drawing**

- Indicator light
- Manual override
- P, R1, R2 port for Rc 3/4 only
- P = 56
- Bottom ported drawing
- L1 = 56n + 64
- L2 = 56n + 80
- L1 = 56n + 90
- L2 = 56n + 106
- Dimensions inside ( ) are for rubber seals.
Pre-wired Connector Type

L Dimension

<table>
<thead>
<tr>
<th>P, R1, R2 port</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>Formula</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>L1</td>
<td>120</td>
<td>176</td>
<td>232</td>
<td>288</td>
<td>344</td>
<td>400</td>
<td>456</td>
<td>512</td>
<td>568</td>
<td>624</td>
<td>n: Stations</td>
</tr>
<tr>
<td>L2</td>
<td>136</td>
<td>192</td>
<td>248</td>
<td>304</td>
<td>360</td>
<td>416</td>
<td>472</td>
<td>528</td>
<td>584</td>
<td>640</td>
<td>L1 = 56n + 64</td>
</tr>
<tr>
<td>3/4</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>L1</td>
<td>146</td>
<td>202</td>
<td>258</td>
<td>314</td>
<td>370</td>
<td>426</td>
<td>482</td>
<td>538</td>
<td>594</td>
<td>650</td>
<td>n: Stations</td>
</tr>
<tr>
<td>L2</td>
<td>162</td>
<td>218</td>
<td>274</td>
<td>330</td>
<td>386</td>
<td>442</td>
<td>498</td>
<td>554</td>
<td>610</td>
<td>666</td>
<td>L1 = 56n + 90</td>
</tr>
</tbody>
</table>

*: 3/4 Dimensions inside are for rubber seals.
Manifold Option Parts

Blanking plate assembly
AXT512-9A

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.

Block disk (For SUP/EXH passages)
AXT512-14-1A (For SUP)
AXT512-14-2A (For EXH)

When two or more different high pressures are supplied to one manifold, blocking plates are installed between stations having different pressures. Also, in cases such as when valve exhaust effects other stations in a circuit, block disks are used for exhaust at stations where the exhaust is to be separated.

Individual SUP spacer
VV72-P-03

By mounting individual SUP spacers on a manifold block, it is possible to provide individual supply ports for each valve.

Individual EXH spacer
VV72-R-03

By mounting individual EXH spacers on a manifold block, exhaust ports can be provided individually for each valve. (3, 5 common exhaust type)

Block disk (For pilot EXH passage)
AZ512-49A

When a valve’s pilot valve exhaust effects other valves in a circuit, block disks are used between stations where the pilot exhaust passages are to be separated.

Throttle valve spacer
AXT510-32A

A throttle valve spacer is mounted on a manifold block to control cylinder speed by throttling exhaust air flow.
Reverse pressure spacer
AXT519-19A-1

With reverse pressure control manifold specifications, when pressure is changed individually on one side (ex. high speed cylinder return), pressure can be supplied individually to the R2 side by mounting a reverse pressure spacer. (Port 3 (R2) is individual and 5 (R1) is common.)

R1/R2 individual EXH spacer
VV72-R2-04

By mounting an individual EXH spacer on a manifold block, individual exhaust is possible from both R1 and R2. (3 (R2) and (R1) are individual ports.)

Conversion adapter plate
VV72-V-1

This conversion adapter plate allows a VQ7-6 (size 1) valve to be mounted on a VQ7-8 manifold base. (V type)

Main EXH back pressure check plate
AXT512-25A

In cases where back pressure effects actuator operation due to simultaneous operation of manifold valves, etc., this effect can be eliminated by installing a plate between the manifold block and the valve from which back pressure is to be prevented.

Adapter plate for locked-up cylinder
AXT602-6A

When using a locked-up cylinder with 2 valves for control, this spacer can be used by mounting on a manifold block. It consists of a circuit equipped with a function to prevent lurching during release.
**Series VQ7-8**

### Manifold Option Parts

#### Double check spacer
**VV72-FPG**

By combining a 3 position exhaust center valve with a double check spacer, an intermediate stopping position of a cylinder can be held for an extended period. It can also be used for drop prevention at the cylinder stroke end when releasing residual supply pressure, by combining it with a 2 position single or double valve.

#### Silencer box
**VV72-□□□□□□-SB**

This can be provided as a unit on the end plate to reduce manifold exhaust noise and piping labor.

### Specifications

<table>
<thead>
<tr>
<th>Double check spacer part no.</th>
<th>VV72-FPG</th>
<th>Applicable solenoid or air operated valve</th>
<th>Series VS7-8/VSA7-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leakage (cm³/min (ANR))</td>
<td></td>
<td>One solenoid energized (One pilot pressurized)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>P R1</td>
<td>280</td>
</tr>
<tr>
<td></td>
<td></td>
<td>R2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Both solenoids unenergized (Both pilots unpressurized)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>P R1</td>
<td>280</td>
</tr>
<tr>
<td></td>
<td></td>
<td>R2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>A R1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>B R2</td>
<td>0</td>
</tr>
</tbody>
</table>

### Interface regulator

**ARB350-00-P**

Spacer Interface regulators can be placed on top of the manifold block to reduce the pressure of each of the valves.

### Part No.

<table>
<thead>
<tr>
<th>Reduced pressure</th>
<th>ARB350-00-P</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td></td>
</tr>
<tr>
<td>A</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td></td>
</tr>
</tbody>
</table>

### Caution

- When combining a pressure center valve and interface regulator with reduced pressure at ports A and B, use model ARB310-B.<sup>A</sup>
- When combining a reverse pressure valve and interface regulator, use model ARB310-<sup>A</sup>.
- Further, it cannot be used with reduced pressure at port P.<sup>A</sup>
- When combining a double check valve and an interface regulator, use a manifold or sub-plate as a basis, and stack them in the following order; the perfect spacer → the interface regulator → the valve.
- When a closed center valve is combined with the interface regulator’s A, B port regulation, note that it cannot be used for intermediate stops of a cylinder because there is leakage from relief port on the regulator.
Manifold Option Parts

Interface regulator
ARB350-00-[P][B]

Main EXH back pressure check plate
AXT512-25A

Dimensions inside ( ) are for sub-plate aperture Rc 3/8 and 1/2.
Dimensions inside [ ] are for sub-plate aperture Rc 3/4.

Throttle valve spacer
AXT510-32A

Double check spacer
VV72-FPG

Dimensions inside ( ) are for sub-plate aperture Rc 3/8 and 1/2.
Dimensions inside [ ] are for sub-plate aperture Rc 3/4.
Series VQ7-8

Manifold Option Parts

<table>
<thead>
<tr>
<th>Part Description</th>
<th>Part Number</th>
<th>Silencer box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual EXH spacer</td>
<td>VV72-R-03/04</td>
<td>AXT512-26A</td>
</tr>
<tr>
<td>Individual SUP spacer</td>
<td>VV72-P-03/04</td>
<td></td>
</tr>
<tr>
<td>R1/R2 individual EXH spacer</td>
<td>VV72-R2-04</td>
<td></td>
</tr>
<tr>
<td>Reverse pressure spacer</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Residual pressure release valve spacer
AZ512-59A

- Individual EXH spacer: VV72-R-
  2-3/8, 1/2
- Individual SUP spacer: VV72-P-
  2-3/8, 1/2
- R1, R2 individual EXH spacer: VV72-R2-04
  2-1/2
- Reverse pressure spacer: AX512-19A-
  2-3/8, 1/2

Dimensions inside ( ) are for sub-plate aperture Rc 3/8 and 1/2.
Dimensions inside are for sub-plate aperture Rc 3/4.
### VQ7-6 Mounting Bolt Part No.

<table>
<thead>
<tr>
<th>Number of options</th>
<th>Single stack</th>
<th>Double stack</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting bolt No.</td>
<td>Size</td>
<td></td>
</tr>
<tr>
<td>AXT632-45-1</td>
<td>M6 x 35 with SW</td>
<td></td>
</tr>
<tr>
<td>AXT632-45-2</td>
<td>M6 x 15 with SW</td>
<td></td>
</tr>
<tr>
<td>AXT632-45-3</td>
<td>M6 x 65 with SW</td>
<td></td>
</tr>
<tr>
<td>AXT632-45-4</td>
<td>M6 x 70 with SW</td>
<td></td>
</tr>
<tr>
<td>AXT632-45-5</td>
<td>M6 x 75 with SW</td>
<td></td>
</tr>
<tr>
<td>AXT632-45-6</td>
<td>M6 x 90 with SW</td>
<td></td>
</tr>
<tr>
<td>AXT632-45-7</td>
<td>M6 x 105 with SW</td>
<td></td>
</tr>
<tr>
<td>AXT632-45-8</td>
<td>M6 x 115 with SW</td>
<td></td>
</tr>
</tbody>
</table>

#### Option mounting diagram

Note: Diagrams are limited only by the precautions given below.

- **Spacers**
  - Main EXH back pressure check plate
  - Throttle valve spacer
  - Release valve spacer
  - Spacer (1)
  - Individual SUP spacer
  - Individual EXH spacer
  - Residual pressure release valve spacer
  - Individual SUP spacer with residual pressure release valve
  - Interface regulator (P port regulation)
  - Interface regulator (A port regulation)
  - Interface regulator (B port regulation)
  - Double check spacer

#### Notes
- **Note 1:** A throttle valve spacer and double check spacer (including those with residual pressure release valve) cannot be combined.
- **Note 2:** When a double check spacer is combined, be careful regarding the installation position.
- **Note 3:** When an interface regulator (Top) and double check spacer (Bottom) (including those with residual pressure release valve) are combined, be careful regarding the installation position.

### VQ7-8 Mounting Bolt Part No.

<table>
<thead>
<tr>
<th>Number of options</th>
<th>Single stack</th>
<th>Double stack</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting bolt No.</td>
<td>Size</td>
<td></td>
</tr>
<tr>
<td>AXT632-54-1</td>
<td>M6 x 45 with SW</td>
<td></td>
</tr>
<tr>
<td>AXT632-54-2</td>
<td>M6 x 15 with SW</td>
<td></td>
</tr>
<tr>
<td>AXT632-54-3</td>
<td>M6 x 65 with SW</td>
<td></td>
</tr>
<tr>
<td>AXT632-54-4</td>
<td>M6 x 75 with SW</td>
<td></td>
</tr>
<tr>
<td>AXT632-54-5</td>
<td>M6 x 85 with SW</td>
<td></td>
</tr>
<tr>
<td>AXT632-54-6</td>
<td>M6 x 105 with SW</td>
<td></td>
</tr>
<tr>
<td>AXT632-54-7</td>
<td>M6 x 125 with SW</td>
<td></td>
</tr>
<tr>
<td>AXT632-54-8</td>
<td>M6 x 140 with SW</td>
<td></td>
</tr>
<tr>
<td>AXT632-54-9</td>
<td>M6 x 155 with SW</td>
<td></td>
</tr>
<tr>
<td>AXT632-54-10</td>
<td>M6 x 170 with SW</td>
<td></td>
</tr>
</tbody>
</table>

#### Option mounting diagram

Note 1: A throttle valve spacer and double check spacer cannot be combined.

Note 2: There is no limitation on the mounting position for spacer (1).
## Exploded View of Manifold

<table>
<thead>
<tr>
<th>D side end plate assembly</th>
<th>Tension bolt</th>
<th>Manifold block assembly</th>
<th>U side end plate assembly</th>
</tr>
</thead>
</table>

### <End Plate Assembly>

**AXT502-A**

- **End plate position**
  - L: U side
  - R: D side

- **P, R port size**
  - 02: Rc 1/4
  - 03: Rc 3/8
  - C12: One-touch fitting for ø12

### <Manifold Block Assembly>

**AXT502-1A**

- **Porting specifications**
  - A: Side
  - B: Bottom

- **Cylinder port size**
  - 02: Rc 1/4
  - 03: Rc 3/8
  - C6 (1): One-touch fitting for ø6
  - C8 (1): One-touch fitting for ø8
  - C10 (1): One-touch fitting for ø10

### <Tension Bolt Part No.>

**AXT502-34**

- **Stations**
  - 2: For 2 stations
  - 3: For 3 stations
  - 10: For 10 stations

### Replacement Parts (For manifold block)

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Description</th>
<th>Qty.</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>AXT502-19</td>
<td>O-ring</td>
<td>4</td>
<td>NBR</td>
</tr>
<tr>
<td>AXT502-20</td>
<td>O-ring</td>
<td>2</td>
<td>NBR</td>
</tr>
<tr>
<td>AXT502-22-2</td>
<td>Plate</td>
<td>1</td>
<td>SPCC</td>
</tr>
<tr>
<td>AXT502-31</td>
<td>Gasket</td>
<td>1</td>
<td>NBR</td>
</tr>
<tr>
<td>M4 x 8</td>
<td>Oval countersunk head screw</td>
<td>2</td>
<td>SWRH3</td>
</tr>
</tbody>
</table>

---

Note 1) Side piping only

Note 2) In this manifold block assembly, the tension bolt for increasing station (1 station) is included.

Note) It is not applicable to One-touch fittings.
ISO Standard Solenoid Valve: Size 2
Metal Seal/Rubber Seal Series VQ7-8

Exploded View of Manifold

<table>
<thead>
<tr>
<th>D side end plate assembly</th>
<th>Manifold block assembly</th>
<th>U side end plate assembly</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<End Plate Assembly>

AXT512

End plate position

L  U side
R  D side
P, R port size
04  Rc 1/2
06  Rc 3/4
C12  One-touch fitting for ø12

Thread type

Nil  Rc
F  G
T  NPTF

Note) It is not applicable to One-touch fittings.

Replacement Parts (For manifold block)

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Description</th>
<th>Qty.</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>AXT512-13</td>
<td>O-ring</td>
<td>2</td>
<td>NBR</td>
</tr>
<tr>
<td>AS568-022</td>
<td>O-ring</td>
<td>1</td>
<td>NBR</td>
</tr>
<tr>
<td>AS568-020</td>
<td>O-ring</td>
<td>2</td>
<td>NBR</td>
</tr>
<tr>
<td>AXT512-5</td>
<td>Gasket</td>
<td>1</td>
<td>NBR</td>
</tr>
<tr>
<td>AXT512-4</td>
<td>Plate</td>
<td>1</td>
<td>SPCC</td>
</tr>
<tr>
<td>M4X10</td>
<td>Oval countersunk head screw</td>
<td>2</td>
<td>SWRH3</td>
</tr>
<tr>
<td>AXT512-6-1</td>
<td>Connection fitting A</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>AXT512-6-4</td>
<td>Connection fitting B</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>AXT512-6-3</td>
<td>Hexagon socket head screw</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

<Manifold Block Assembly>

AXT512-1A

Cylinder port size

L  L side
R  R side

Thread type

Nil  Rc
F  G
T  NPTF

Wiring specifications

A  Side
B  Bottom

Cylinder port size

03  3/8
04  1/2

Note) It is not applicable to One-touch fittings.