## ISO Interface Solenoid Valve/SIZE

### Metal Seal

**Series VS7-6**

**Accessories**
- Mounting bolt (with washer): TA-B-5 X 35
- Packing: AXT500-13
- Indicator light: (Option)

**Optional Specifications**
- Surge voltage suppressor: Available
- Reverse pressure
  - R1/R2 port: Pressure in R1=PI pressure R2=P2 pressure, P1P2

### Standard Specifications

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Air/inert gas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating pressure</td>
<td>0.1 to 1.0MPa</td>
</tr>
<tr>
<td>Ambient and fluid temperature</td>
<td>5 to 60°C</td>
</tr>
<tr>
<td>Manual override</td>
<td>Non-locking style, Locking style*</td>
</tr>
<tr>
<td>Electrical entry</td>
<td>DIN connector</td>
</tr>
<tr>
<td>Lubrication</td>
<td>Non-lube</td>
</tr>
<tr>
<td>Shock resistance (Vibration resistance)</td>
<td>150/50 m/s²</td>
</tr>
<tr>
<td>Applicable sub-plate</td>
<td>VS7-1 (ISO size 1)</td>
</tr>
</tbody>
</table>

* - Option

Note: Shock resistance: No malfunction resulted from the impact test using a drop impact tester. The test was performed on the axis and right angle directions of the main valve and armature, for both energized and de-energized states. (Value in the initial stage.)

Vibration resistance: No malfunction occurred in a one-sweep test between 8.3 and 2000 Hz. Test was performed at both energized and de-energized states to the axis and right angle directions of the main valve and armature. (Value in the initial stage.)

### Pilot Valve/Specifications

<table>
<thead>
<tr>
<th>Part No.*</th>
<th>AXT511-1 (V)</th>
<th>AXT511-2 (V)</th>
<th>AXT511-3 (V)</th>
<th>AXT511-4 (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage (V)</td>
<td>100V AC 50/60 Hz</td>
<td>200V AC 50/60 Hz</td>
<td>24V DC</td>
<td>12V DC</td>
</tr>
<tr>
<td>Inrush current (A)</td>
<td>0.049/0.043</td>
<td>0.024/0.021</td>
<td>0.075</td>
<td>0.15</td>
</tr>
<tr>
<td>Holding current (A)</td>
<td>0.031/0.020</td>
<td>0.015/0.01</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allowable voltage (V)</td>
<td>85 to 110% of rated voltage</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insulation Class (°C or equivalent)</td>
<td>B (130°C) or equivalent</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* - Option

Note: (V): Pilot EXH individual style.

### Option/Interface regulator

#### Interface regulator model
- ARB250

#### Applicable solenoid valve
- VS7-6

#### Regulation port
- A
- B
- P

#### Proof pressure
- 1.5MPa

#### Max. operating pressure
- 1.0MPa

#### Set pressure range
- 0.1 to 0.83 MPa

#### Ambient and fluid temperature
- 5 to 60°C

#### Pressure gauge port size
- 1/8" NPT

#### Weight (kg)
- 0.55

#### Air supply side eff. area S (P=0.7MPa, P1=0.5MPa)(3) (mm²)
- P/A: 15
- P/B: 16
- EA: 13

#### Air exhaust side eff. area S (P2=0.5MPa)(3) (mm²)
- EA: 25
- EB: 18

Note 1) Use "ABR210" for pressure centre style and reverse pressure style.

Note 2) Synthesized effective area with 2 position single style solenoid valve.

### Model

<table>
<thead>
<tr>
<th>No. of positions</th>
<th>Model</th>
<th>Effective area</th>
<th>Max. operating rate (1) (cycle/sec.)</th>
<th>Response time (2) (sec)</th>
<th>Weight (3) (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 (Single)</td>
<td>VS7-6-FG-S-D-Q</td>
<td>27 (1472.25)</td>
<td>20</td>
<td>0.025 or less</td>
<td>0.460</td>
</tr>
<tr>
<td>2 (Double)</td>
<td>VS7-6-FG-D-D-Q</td>
<td>27 (1472.25)</td>
<td>20</td>
<td>0.015 or less</td>
<td>0.560</td>
</tr>
<tr>
<td>3 (Closed centre)</td>
<td>VS7-6-FHG-D-D-D-Q</td>
<td>25.5 (1374.10)</td>
<td>10</td>
<td>0.045 or less</td>
<td>0.635</td>
</tr>
<tr>
<td>3 (Exhaust centre)</td>
<td>VS7-6-FJG-D-D-D-Q</td>
<td>25 (1374.10)</td>
<td>10</td>
<td>0.045 or less</td>
<td>0.635</td>
</tr>
<tr>
<td>3 (Pilot check)</td>
<td>VS7-6-FPG-D-D-D-Q</td>
<td>20 (1079.65)</td>
<td>10</td>
<td>0.05 or less</td>
<td>0.990</td>
</tr>
</tbody>
</table>

1) Min. operating frequency is based on JIS B8375. (Once every 30 days)
2) Based on JIS B8375-1975 (At 0.9MPa)
3) Weight without sub-plate (Sub-plate: 0.37kg)
Double Pilot Check Spacer/Series FPG

Cylinder mid-stroke, long term retention possible.
The use of the double pilot check spacer equipped with a built-in double check valve enables the cylinder to stop and remain at mid-stroke for long periods regardless of air leakage between the spool and sleeve.

3 Position Double Pilot Check Valve
(Wedge packing style)
VS7-6-FHG-D-R
3 position double pilot check valve achieves a reduction in air leakage as a result of main valve construction which features co-axial wedge packing (Max. leakage: 10 cm³/min (ANR)).

⚠️ Caution
- Verify that there is no leakage from the pipes between valve and cylinder, and from fittings. Check for leaks by using neutral detergent solution before use. Also check the cylinder packing and the piston packing. If there is leakage, cylinder may not stop at the mid-stroke position, and could move immediately after the valve is de-energized.
- Be aware that if the exhaust side is restricted excessively, the intermediate stopping accuracy will decrease and will lead to improper intermediate stops.

Double Pilot Check Spacer Specifications

<table>
<thead>
<tr>
<th>Leakage (cm³/min (ANR))</th>
<th>VS7-6/VSA7-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>With one side solenoid energized. (With one side pilot air pressured)</td>
<td>P R₁ R₂</td>
</tr>
<tr>
<td>Both sides solenoids de-energized. (With both sides pilots not air pressured)</td>
<td>P R₃</td>
</tr>
<tr>
<td>A R₄</td>
<td></td>
</tr>
</tbody>
</table>

Check Valve/Operation Pressure Characteristics
The check valve will operate correctly providing that cylinder side pressure is not in excess of two times the supply pressure.

Cylinder Operation Chart
Cylinder speed/stop position range

<table>
<thead>
<tr>
<th>Cylinder</th>
<th>Supply pressure</th>
<th>Load</th>
<th>Load factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>ø50 450°</td>
<td>0.2MPa</td>
<td>0.5</td>
<td>39</td>
</tr>
<tr>
<td>ø80 450°</td>
<td>0.5MPa</td>
<td>0.5</td>
<td>16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cylinder</th>
<th>Supply pressure</th>
<th>Load</th>
<th>Load factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>ø50 450°</td>
<td>0.2MPa</td>
<td>35</td>
<td>39</td>
</tr>
<tr>
<td>ø80 450°</td>
<td>0.5MPa</td>
<td>35</td>
<td>16</td>
</tr>
</tbody>
</table>

1.19-2
Precautions

Be sure to read before handling. Refer to p.0-33 to 0-36 for Safety Instructions and common precautions.

Caution

DIN Connector (Wiring)

Power Source and Wiring

1. Make sure all contacts are secure.
2. Voltage should be held within the allowable voltage range.

How to calculate flow rate

Refer to p.0-36 for flow rate calculations.

Interface Regulator Specifications

Specifications

- Interface regulator model: ARB250
- Applicable solenoid valve: VS7-6
- Regulation port: A/B
- Max. operating pressure: 1.0MPa
- Setting pressure range: 0.1 to 0.83MPa
- Ambient and fluid temperature: 5 to 60°C
- Pressure gauge port size: 1/8
- Weight (kg): 0.55
- Air supply side eff area (mm²): P→A 15 16 13
- P→B 16 16 11
- Air exhaust side eff area (mm²): A→EA 25 mm²
- B→EB 18 mm²

Note 1) Maximum operating pressure of solenoid valve is 0.9 MPa.
Note 2) Be sure to set pressure within setting pressure range of the solenoid valve.
Note 3) Solenoid valve: Max. 50°C
Note 4) Synthesized effective area with 2 position single style solenoid valve.
Note 5) Supply pressure to interface regulator only from P port except when it is used with reverse pressure style valve.
- Use the ARB210 or ARB310 model to combine a pressure centre valve and the A and B port pressure reduction of a spacer style regulator.
- Use the ARB210 or ARB310 model to combine a reverse pressure valve and a spacer style regulator.
- To use a perfect valve and a spacer style regulator, use a manifold or a sub plate as the standard and stack in the following order: the perfect spacer, spacer style regulator, and the valve.
- When a closed centre valve is combined with the A and B port pressure reduction of a spacer style regulator, it cannot be used for intermediate stops of the cylinder because of the leakage from the relief port of the regulator.
VS7-6

Construction

VS7-6-FG-S-Q

VS7-6-FHG-Q

VS7-6-FJG-Q

VS7-6-FHGR-Q

Replacement Parts

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
<th>VS7-6-FG-S</th>
<th>VS7-6-FG-D</th>
<th>VS7-6-FHG</th>
<th>VS7-6-FJG</th>
<th>VS7-6-FHG-D-R</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Return spring</td>
<td>SUS</td>
<td>AXT500-12-2</td>
<td>AXT500-13</td>
<td>AXT500-13</td>
<td>AXT500-13</td>
<td>AXT500-13</td>
</tr>
<tr>
<td>3</td>
<td>Gasket</td>
<td>NBR</td>
<td>AXT503-12-1</td>
<td>AXT503-12-1</td>
<td>AXT503-12-1</td>
<td>AXT503-12-1</td>
<td>AXT503-12-1</td>
</tr>
<tr>
<td>4</td>
<td>Mini-Y-packing</td>
<td>NBR</td>
<td>MY-11N</td>
<td>MY-11N</td>
<td>MY-11N</td>
<td>MY-11N</td>
<td>MY-11N</td>
</tr>
<tr>
<td>5</td>
<td>Pilot valve assembly</td>
<td>—</td>
<td>AXT511A-1</td>
<td>AXT511A-1</td>
<td>AXT511B-1</td>
<td>AXT511B-1</td>
<td>AXT511B-1</td>
</tr>
<tr>
<td>6</td>
<td>Detent assembly</td>
<td>—</td>
<td>—</td>
<td>AXT500-9</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>7</td>
<td>Double pilot check spacer</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>8</td>
<td>Packing</td>
<td>NBR</td>
<td>—</td>
<td>—</td>
<td>AXT643-2-1</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>
Without Sub-plate/Dimensions

**VS7-6-FG-S-□□□-Q**

G(PF)-1/2 (Cable ø8 to ø10)

Indicators light

Hex socket head cap screw
M5 X 35 SW

---

**VS7-6-FG-D-□□□-Q**

G(PF)-1/2 (Cable ø8 to ø10)

Indicators light

Hex socket head cap screw
M5 X 35 SW

---

**VS7-6-FHG-□□□-Q**

G(PF) Cable ø8 to ø10

DIN connector

Indicators light

Hex socket head cap screw
M5 X 35 SW

---

**VS7-6-FJG-□□□-Q**

G(PF) Cable ø8 to ø10

DIN connector

Indicators light

Hex socket head cap screw
M5 X 35 SW

---

**VS7-6-FPG-□□□-Q**

G(PF) Cable ø8 to ø10

DIN connector

Indicators light

Hex socket head cap screw
M5 X 35 SW

---

( ): In case of direct manual override style.
With Sub-plate/Dimensions

VS7-6-FG-S-□ Port size of sub-plate □-Q

VS7-6-FG-D-□ Port size of sub-plate □-Q

VS7-6-FHG-□ Port size of sub-plate □-Q

VS7-6-FJG-□ Port size of sub-plate □-Q

VS7-6-FPG-□ Port size of sub-plate □-Q

(F) ½ (Cable ø8 to ø10)

G(PF) ½ (Cable ø8 to ø10)

( ): In case of direct manual override style.
Sub-plate: Series VS7-1/VSA7-1

Specifications

<table>
<thead>
<tr>
<th>Applicable solenoid valve/air operated valve</th>
<th>Series ISO size ①</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sub-plate size</td>
<td>ISO size ①</td>
</tr>
<tr>
<td>Piping</td>
<td>Side piping ⅓ ⅔</td>
</tr>
<tr>
<td>Weight</td>
<td>Bottom piping ⅓ ⅔</td>
</tr>
</tbody>
</table>

Note: All R ports: ⅓

How to Order

E VS7 - 1 [A02]

Piping

- A02 Side piping ⅓
- A03 Side piping ⅓
- B02 Bottom piping ⅓
- B03 Bottom piping ⅓

Ordering source area code

<table>
<thead>
<tr>
<th>Code</th>
<th>areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>Japan, Asia</td>
</tr>
<tr>
<td>E</td>
<td>Europe</td>
</tr>
<tr>
<td>N</td>
<td>North America</td>
</tr>
</tbody>
</table>

Note:
Please note that single subplates and manifolds have changed colour from platinium silver to white as standard. Valves will remain platinium silver.

Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Piping</th>
<th>Port size</th>
</tr>
</thead>
<tbody>
<tr>
<td>VS7-1-A02</td>
<td>Side</td>
<td>⅓</td>
</tr>
<tr>
<td>VS7-1-A03</td>
<td>Side</td>
<td>⅔</td>
</tr>
<tr>
<td>VS7-1-B02</td>
<td>Bottom</td>
<td>⅓</td>
</tr>
<tr>
<td>VS7-1-B03</td>
<td>Bottom</td>
<td>⅔</td>
</tr>
</tbody>
</table>
Series VS7-6
Manifold

Manifold: Series VV71

Standard Specifications

- Manifold block size: ISO size 1
- Applicable solenoid valve: Series ISO size 1
- Number of stations: 1 to 10
- Piping: A, B-port 1/4", 3/8" One-touch fitting: ø6, ø8, ø10
  P, R1, R2-port 1/4", 3/8" One-touch fitting: ø12
- F. R. Unit: Air filter (Auto drain, Manual drain), Regulator, Pressure switch, Air release valve
- Individual SUP spacer: VV71-P-02/14, 3/8, C10: ø10
- Individual EXH spacer: VV71-R-02/14, 3/8, C12: ø12
- Gallery blank disc (Differential pressure style): AXT502-14
  + Including F.R.Unit (equivalent to 2 stations)

The manifold Series VV71 has a wide variety of functions and piping, compatible with virtually any application.

Common EXH Style
- Every valve is supplied and exhausted by the same SUP and EXH ports running through the connected manifolds. This is the most popular configuration. When there are 5 or more stations operating simultaneously and pilot back pressure is 0.2kgf/cm² or more, it is recommended that all pilot EXH ports (PE) of the manifold base (4 on U side and 2 on D side, total 6 ports) be open. Also, use "AN110-01" for silencer for pilot EXH.

Individual EXH Style
- Every valve has an independent EXH port of its own.
- An Individual EXH spacer (VV71-R-C) mounted on the manifold block allows each valve to exhaust individually.

Individual SUP Style
- An Individual SUP spacer (VV71-P-02/14, 3/8, C10: ø10) mounted on the manifold block allows each valve to be supplied individually.

Multiple Pressure SUP Style
- Allows supply of 2 or more different pressure to one manifold.
- Put in a gallery blank disc (AXT502-14) between the stations to operate at different pressures. A dual pressure supply can be supplied from both the left and right sides of the manifold. If 3 or more pressures are supplied, the individual SUP spacer should be used.

Bottom Piping Style: 1/4, 3/8 (A, B-port)
- When side piping appearance is not acceptable or space is limited, either some of, or all ports, can be arranged with bottom piping.

Individual Pilot EXH Style
- If there are many valve stations operating at the same time or operation frequency is high, trouble caused by back pressure will be prevented by using individual pilot EXH style valve ("VS7-6-C-C").

Note:
Please note that single subplates and manifolds have changed colour from platinium silver to white as standard. Valves will remain platinium silver.
VS7-6

How to Order (Manifold)

1.19-10

Manifold/Applications

F. R. Unit for Manifold
Air filter, regulator, pressure switch, air release valve can be directly mounted to the manifold base, simplifying piping.

Classification of Control Unit

Control unit

<table>
<thead>
<tr>
<th>Symbol</th>
<th>A</th>
<th>AP</th>
<th>M</th>
<th>MP</th>
<th>F</th>
<th>G</th>
<th>C</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air filter with auto-drain</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Air filter with manual drain</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Regulator</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Air release valve</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Pressure switch</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Blank plate (Air filter, Regulator)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Blank plate (Air release valve)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Manifold blocks necessary for mounting</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

F. R. Unit/Specifications

Air filter (w/auto-drain, w/manual drain)

- Filtration: 5μm
- Set press. (secondary): 0.05 to 0.85MPa

Regulator

- Pressure switch
  - Pressure regulation range: 0.1 to 0.7MPa
- Contacts: Tab
- Rated current: Induction load 125V AC 3A, 250V AC 2A
- Air release valve (Single only)
  - Operating press. range: 0.1 to 1.0MPa

Options

- Blank plate
  - AXT502-9A (for manifold)
  - AXT502-18A (for air release valve adapter plate)
  - MP2 (for control unit/filter regulation valve)
  - MP3 (for pressure switch)

- Air release valve adapter plate
  - AXT502-17A

- F. R. Unit
  - VAW-A (Adaptor plate, filter with auto drain cock, regulator)
  - VAW-M (Adaptor plate, filter with manual drain cock, regulator)

- Pressure switch
  - IS3100-X230 (2-M5 X 12)

- Silencer box
  - SB
  - No silencer box

- Air release valve/Rated voltage
  - Without air release valve
  - 100V AC 50/60Hz
  - 200V AC 50/60Hz
  - 24V DC
  - 12V DC
  - Others (250V or less)

- Protective class
  - class I (Mark: )

Note) Manifold exploded view see page 1.19-33 for details
Manifold/Dimensions

Common EXH

Individual EXH

Equation

L1 = 43n + 64
L2 = 43n + 76

Manifold weight general formula = 0.43n + 0.49 (kg)

{}: In case of direct manual override style.
Manifold/Dimensions

F. R. Unit

Interface Speed Control

Interface Regulator

Bottom Piping

( ): In case of direct manual override style.

L: Dimensions

<table>
<thead>
<tr>
<th>n: Station</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>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>L2</td>
<td>182</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>
<tr>
<td>L3</td>
<td>297</td>
<td>340</td>
<td>383</td>
<td>426</td>
<td>469</td>
<td>512</td>
<td>555</td>
<td>598</td>
<td>641</td>
<td>L3 = 43n + 211</td>
</tr>
</tbody>
</table>

Equation

L1 = 43n + 64
L2 = 43n + 76
L3 = 43n + 211

n: Station

L: Dimensions

G(PF) 1/2
(Cable ø6 to ø10)

Indicator light

4-1/4
(Pilot EXH.)

6-1/4, 3/8, 012

254
127

Interface speed control

(AX1503-23A)

AR8250-00 A B

205.5
20.5
20.5

6-1/4, 3/8

(Pilot exhaust port)
ISO Interface Solenoid Valve/SIZE 2
Metal Seal
Series VS7-8

Note:
Please note that single subplates and manifolds have changed colour from platinium silver to white as standard. Valves will remain platinium silver.

Options

- Single solenoid (FG-S)
- Double solenoid (FG-D)
- Reverse pressure (YZ-S)
- Reverse pressure (YZ-D)
- Closed centre (FHG-D)
- Exhaust centre (FJG-D)
- Double pilot check (FPG-D)
- Pressure centre (FIG-D)

Pilot Valve/Specifications

<table>
<thead>
<tr>
<th>Part No.</th>
<th>AXT511C-1 (V)</th>
<th>AXT511C-2 (V)</th>
<th>AXT511C-3 (V)</th>
<th>AXT511C-4 (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage (V)</td>
<td>100V AC 50/60 Hz</td>
<td>200V AC 50/60 Hz</td>
<td>24V DC</td>
<td>12V DC</td>
</tr>
<tr>
<td>Inrush current (A)</td>
<td>0.049/0.043</td>
<td>0.024/0.021</td>
<td>0.075</td>
<td>0.15</td>
</tr>
<tr>
<td>Holding current (A)</td>
<td>0.031/0.02</td>
<td>0.015/0.01</td>
<td>0.655</td>
<td>0.74</td>
</tr>
<tr>
<td>Allowable voltage (V)</td>
<td>85 to 110 % of rated voltage</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insulation</td>
<td>Class B (130°C) or equivalent</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Standard Specifications

- Fluid: Air/inert gas
- Operating pressure: 0.1 to 1.0MPa
- Ambient and fluid temperature: 5 to 60 °C
- Manual override: Non-locking style, Locking style
- Electrical entry: DIN connector
- Lubrication: Non-lube
- Shock/Vibration resistance:
  1) Strock resistance: No malfunction resulted from the impact test using a drop impact tester. The test was performed on the axis and right angle directions of the main valve and armature, for both energized and de-energized states, (Value in the initial stage.)
  2) Vibration resistance: No malfunction occurred in a one-sweep test between 8.3 and 2000 Hz. Test was performed at both energized and de-energized states to the axis and right angle directions of the main valve and armature. (Value in the initial stage.)

Option/Interface Regulator

<table>
<thead>
<tr>
<th>Interface regulator model</th>
<th>ARB350</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable solenoid valve</td>
<td>VS7-8</td>
</tr>
</tbody>
</table>

Accessories

- Mounting bolt (with washer): TA-B-6 X 45
- Packing: AXT510-13
- Indicator light: (Option)

Optional Specifications

- Surge voltage suppressor: Available
- Reverse pressure: R1/R2 port: Pressure in R1=P1 pressure R2=P2 pressure, P1<P2

Pilot EXH individual style.

- (V): Pilot EXH individual style.

Model

<table>
<thead>
<tr>
<th>No. of positions</th>
<th>Model</th>
<th>Effective area (W/P sub-plate or (mm²)</th>
<th>Max. operating rate (cycle/sec)</th>
<th>Response time (sec)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 (Single)</td>
<td>VS7-8-FG-S-Q</td>
<td>58 (3140.80)</td>
<td>15</td>
<td>0.040 or less</td>
<td>0.655</td>
</tr>
<tr>
<td>2 (Double)</td>
<td>VS7-8-FG-D-Q</td>
<td>58 (3140.80)</td>
<td>15</td>
<td>0.020 or less</td>
<td>0.74</td>
</tr>
<tr>
<td>3 (Closed centre)</td>
<td>VS7-8-FHG-D-Q</td>
<td>58 (3140.80)</td>
<td>10</td>
<td>0.05 or less</td>
<td>0.89</td>
</tr>
<tr>
<td>3 (Exhaust centre)</td>
<td>VS7-8-FJG-D-Q</td>
<td>58 (3140.80)</td>
<td>10</td>
<td>0.05 or less</td>
<td>0.89</td>
</tr>
<tr>
<td>3 (Pilot check)</td>
<td>VS7-8-FPG-D-Q</td>
<td>40 (2159.30)</td>
<td>8</td>
<td>0.06 or less</td>
<td>2.12</td>
</tr>
</tbody>
</table>

Note 1: Use “ABR210” for pressure centre style and reverse pressure style.

Note 2: Synthesized effective area with 2 position single style solenoid valve.

Note: 1) Min. operating frequency is based on JIS B8375. (Once in 30 days)

1) Min. operating frequency is based on JIS B8375. (Once in 30 days)
2) Weight without sub-plate (Sub-plate: 0.37kg)
3) Based on JIS B8375-1975 (At 0.5MPa)
4) (1) and (2) are the rates in the condition of controlled clean air.
Double Pilot Check Spacer/Series FPG

Cylinder mid-stroke/long term retention possible.
The use of the double pilot check spacer equipped with a built-in double check valve enables the cylinder to stop and remain at mid-stroke for long periods regardless of air leakage between the spool and sleeve.

3 Position Double Pilot Check Valve (Wedge packing style)
VS7-8-FHG-D-R
3 position double pilot check valve achieves a reduction in air leakage as a result of main valve construction which features co-axial wedge packing (Max. leakage: 10 cm³/min (ANR)).

⚠️ Caution
- Verify that there is no leakage from the pipes between valve and cylinder, and from fittings. Check for leaks by using neutral detergent solution before use. Also check the cylinder packing and the piston packing. If there is leakage, cylinder may not stop at the mid-stroke position, and could move immediately after the valve is de-energized.
- Be aware that if the exhaust side is restricted excessively, the intermediate stopping accuracy will decrease and will lead to improper intermediate stops.

---

Double Pilot Check Spacer Specifications

<table>
<thead>
<tr>
<th>Applicable solenoid valve/air operated valve</th>
<th>VV72-FPG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leakage (cm³/min (ANR))</td>
<td></td>
</tr>
<tr>
<td>With one side solenoid energized. (With one side pilot air pressured)</td>
<td>P</td>
</tr>
<tr>
<td></td>
<td>R2</td>
</tr>
<tr>
<td>Both sides solenoids de-energized. (With both sides pilots not air pressured)</td>
<td>P</td>
</tr>
<tr>
<td></td>
<td>R2</td>
</tr>
<tr>
<td></td>
<td>A</td>
</tr>
<tr>
<td></td>
<td>B</td>
</tr>
</tbody>
</table>

Check Valve/Operation Pressure Characteristics

The check valve will operate correctly providing that cylinder side pressure is not in excess of two times the supply pressure.

Cylinder Operation Chart

- Cylinder stroke: (A) 100, (B) 50
- Load: (A) 25kg, (B) 25kg
- Load factor: (A) 51%, (B) 28%
- Supply pressure: 0.5MPa

Cylinder Speed/Stop Position Range

- Retraction: 20mm, Extension: 20mm
- Stop position range (mm):
  - Retraction: 5, Extension: 5
  - (A) 0, (B) 0
  - (C) 0, (D) 0

---

The check valve will operate correctly providing that cylinder side pressure is not in excess of two times the supply pressure.
**Precautions**

Be sure to read before handling. Refer to p.0-33 to 0-36 for Safety Instructions and common precautions.

**Caution**

DIN Connector (Wiring)

**Specifications**

<table>
<thead>
<tr>
<th>Interface regulator model</th>
<th>ARB350</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable solenoid valve</td>
<td>VS7-8</td>
</tr>
<tr>
<td>Regulation port</td>
<td>A</td>
</tr>
<tr>
<td>Max. operating pressure</td>
<td>1.0MPa</td>
</tr>
<tr>
<td>Set pressure range</td>
<td>0.1 to 0.83MPa</td>
</tr>
<tr>
<td>Ambient and fluid temperature</td>
<td>5 to 60°C</td>
</tr>
<tr>
<td>Pressure gauge port size</td>
<td>1/6</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>0.83</td>
</tr>
<tr>
<td>Air supply side eff. area (mm²)</td>
<td>P→A 40 31 27</td>
</tr>
<tr>
<td>S (P=0.7MPa, P1=0.5MPa)</td>
<td>P→B 31 34 27</td>
</tr>
<tr>
<td>Air exhaust side eff. area</td>
<td>A→EA 60 mm²</td>
</tr>
<tr>
<td>S (P2=0.5MPa)</td>
<td>B→EB 53 mm²</td>
</tr>
</tbody>
</table>

**Power Source and Wiring**

1. Make sure all contacts are secure.
2. Voltage should be held within the allowable voltage range.

**How to calculate flow rate**

Refer to p.0-36 for flow rate calculation.
### Construction

![Diagram of VS7-8](image1)

### Replacement Parts

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
<th>VS7-8-FG-S</th>
<th>VS7-8-FG-D</th>
<th>VS7-8-FHG</th>
<th>VS7-8-FJG</th>
<th>VS7-8-FPG</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Return spring</td>
<td>SUS</td>
<td>AXT510-12</td>
<td>—</td>
<td>AXT510-21</td>
<td>AXT510-21</td>
<td>AXT510-21</td>
</tr>
<tr>
<td>3</td>
<td>Gasket</td>
<td>NBR</td>
<td>AXT510-14-2</td>
<td>AXT510-14-2</td>
<td>AXT510-14-2</td>
<td>AXT510-14-2</td>
<td>AXT510-14-2</td>
</tr>
<tr>
<td>4</td>
<td>Gasket</td>
<td>NBR</td>
<td>AXT510-14-1</td>
<td>AXT510-14-1</td>
<td>AXT510-14-1</td>
<td>AXT510-14-1</td>
<td>AXT510-14-1</td>
</tr>
<tr>
<td>5</td>
<td>Mini-Y-packing</td>
<td>NBR</td>
<td>MY-16N</td>
<td>MY-16N</td>
<td>MY-14N</td>
<td>MY-14N</td>
<td>MY-14N</td>
</tr>
<tr>
<td>6</td>
<td>Pilot valve assembly</td>
<td>—</td>
<td>AXT511C-□</td>
<td>AXT511C-□</td>
<td>AXT511C-□</td>
<td>AXT511C-□</td>
<td>AXT511C-□</td>
</tr>
<tr>
<td>7</td>
<td>Detent assembly</td>
<td>—</td>
<td>—</td>
<td>AXT510-9</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>8</td>
<td>Double pilot check spacer</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>VV72-FPG</td>
</tr>
<tr>
<td>9</td>
<td>Packing</td>
<td>NBR</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>AXT644-7-1</td>
</tr>
</tbody>
</table>
With Sub-plate/Dimensions

VS7-8-FG-S-□□-Q

VS7-8-FG-D-□□-Q

VS7-8-FHG-□□-Q

VS7-8-FJG-□□-Q

VS7-8-FPG-□□-Q

G(PF) 1/2 (Cable ø8 to ø10)

Hex. socket head cap screw

M6 X 45.SW

Gasket

Indicator light

Manual override

( ) In case of direct manual override style.
Without Sub-plate/Dimensions

VS7-8-FG-S-□ Port size of sub-plate -Q

VS7-8-FG-D-□ Port size of sub-plate -Q

VS7-8-FHG-□ Port size of sub-plate -Q

VS7-8-FPG-□ Port size of sub-plate -Q

VS7-8-FJG-□ Port size of sub-plate -Q

(...): In case of direct manual override style.

Note) Symbol EA and EB correspond to \( R_1 \) and \( R_2 \) respectively (\( R_1 = \text{EA}, R_2 = \text{EB} \))
Interface Speed Control

Symbol

Interface Regulator

Symbol

P port regulation

A port regulation

B port regulation

Interface Speed Control/Dimensions

AXT510-32A

(DIN connector)

Indicator light

Interface speed control

(AXT510-32A)

P port regulation/ARB350-00-P

A port regulation/ARB350-00-A

B port regulation/ARB350-00-B
Sub-plate: Series VS7-2/VSA7-2

Specifications

<table>
<thead>
<tr>
<th>Applicable solenoid valve/air operated valve</th>
<th>Series ISO size ②</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piping</td>
<td>ISO size ②</td>
</tr>
<tr>
<td>Side piping: 3/8</td>
<td>F G (PF)</td>
</tr>
<tr>
<td>1/2</td>
<td>N NPT</td>
</tr>
<tr>
<td>3/4</td>
<td>T NPTF</td>
</tr>
<tr>
<td>Bottom piping: 3/8</td>
<td></td>
</tr>
<tr>
<td>1/2</td>
<td></td>
</tr>
<tr>
<td>3/4</td>
<td></td>
</tr>
</tbody>
</table>

Weight 0.68kg (6/5) 1.29kg (9/2)

How to Order

VS7-2-③ A03

Piping

Side piping: 3/8, 1/2, 3/4
Bottom piping: 3/8, 1/2, 3/4

Ordering source area code

<table>
<thead>
<tr>
<th>Code</th>
<th>areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>Europe</td>
</tr>
<tr>
<td>N</td>
<td>North America</td>
</tr>
</tbody>
</table>

Note:
Please note that single subplates and manifolds have changed colour from platinium silver to white as standard. Valves will remain platinium silver.

Dimensions
Series VS7-8
Manifold

Manifold: Series VV72

Standard Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Info</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manifold block size</td>
<td>ISO Size</td>
</tr>
<tr>
<td>Applicable solenoid valve</td>
<td>Series ISO Size</td>
</tr>
<tr>
<td>Number of stations</td>
<td>1 to 10</td>
</tr>
<tr>
<td>Piping</td>
<td>A, B-port: 3/8, 1/2</td>
</tr>
<tr>
<td></td>
<td>P, R1, R2-port: 1/2, 3/4</td>
</tr>
<tr>
<td>Individual SUP spacer</td>
<td>VV72-P</td>
</tr>
<tr>
<td>Individual EXH spacer</td>
<td>VV72-H</td>
</tr>
<tr>
<td>Gallery blank disc (Differential pressure style)</td>
<td>AXT512-14-1A (for P port)</td>
</tr>
<tr>
<td></td>
<td>AXT512-14-2A (for R1, R2 port)</td>
</tr>
</tbody>
</table>

The manifold Series VV72 has a wide variety of functions and porting compatible with virtually any application need.

Common EXH Style

Every valve is supplied and exhausted by the same SUP and EXH ports running through the connected manifolds. This is the most popular configuration. When there are 5 or more stations operating simultaneously and pilot back pressure is 0.2 kgf/cm² or more, it is recommended that all pilot EXH ports (PE) of the manifold base (4 on U side and 2 on D side, total 6 ports) be opened. Also, use “AN110-01” for silencer for pilot EXH.

Individual EXH Style

Every valve has an independent EXH port of its own. An individual EXH spacer (VV72-R-03, 04) mounted on the manifold block allows each valve to exhaust individually.

Individual SUP Style

An individual SUP spacer (VV72-P-03, 04) mounted on the manifold block allows each valve to be supplied individually.

V Type

V type allows combinations with valves of varying body size. (Interface adapter plate VV72-V-1)

Main EXH Back Pressure Block Style

If there are many valve stations operating at the same time and main EXH back pressure may cause trouble, mount back pressure block plate (“AXT503-37A”) to prevent effects of main EXH back pressure.

Multiple Pressure SUP Style

Allows supply of 2 or more different pressures to one manifold. Put in a gallery blank disc (AXT512-14-1A) between the stations to operate at different pressures. When using a dual pressures supply, the pressure can be supplied from both the left and right sides of the manifold. If 3 or more pressures are supplied, pressure should be supplied from the spacer (VV72-P-□) port.

Bottom Piping Style (3/8, 1/2)

When side piping appearance is not acceptable or space is limited, bottom piping for A or B ports is possible.

Individual Pilot EXH Style

If there are many valve stations operating at the same time or operation frequency is high, trouble caused by back pressure will be prevented by using individual pilot EXH style valve (“VS7-□-□”).
### How to Order (Manifold)

**Option**

| Blank plate | AXT512-9A |
| Air release valve adaptor plate | AXT512-18A |
| Interface | AXT512-17A |
| Relief regulator style | ARB350-00- A, B port regulation |
| Interface for reverse pressure | AXT512-19A, 3/4 |
| R1, R2 Individual EXH spacer | VV72-R2-04 |
| Interface speed control | AXT510-32A |
| Main EXH back pressure block plate | AXT512-25A |
| Silencer for pilot EXH | AN110-01 |

**Air release valve/Voltage**

- Without air release valve
  - Without silencer box
  - With silencer box
- With air release valve
  - Without silencer box
  - With silencer box

**Stations**

<table>
<thead>
<tr>
<th>Piping/A, B port</th>
<th>Stations</th>
</tr>
</thead>
<tbody>
<tr>
<td>03R 3/4 (Right)</td>
<td>1 1</td>
</tr>
<tr>
<td>04R 1/2 (Right)</td>
<td>1 2</td>
</tr>
<tr>
<td>03L 3/8 (Left)</td>
<td>1 2</td>
</tr>
<tr>
<td>04L 1/2 (Left)</td>
<td>1 2</td>
</tr>
<tr>
<td>03Y 3/8 (Bottom)</td>
<td>1 2</td>
</tr>
<tr>
<td>04Y 1/2 (Bottom)</td>
<td>1 2</td>
</tr>
</tbody>
</table>

**Ordering source area code**

<table>
<thead>
<tr>
<th>Code</th>
<th>areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>Japan, Asia, Australia</td>
</tr>
<tr>
<td>E</td>
<td>Europe</td>
</tr>
<tr>
<td>N</td>
<td>North America</td>
</tr>
</tbody>
</table>

**Note:**

- When mixing, inside a "∗" mark and designate a separate piping specification.
- Protective class class I (Mark:  )
- Contact SMC for other voltages (9)
- Protective class class I (Mark:  )

**Combination**

- Without air release valve
  - Without silencer box
  - With silencer box
- With air release valve
  - Without silencer box
  - With silencer box

- Mounting position of silencer box is in accordance with piping of R1 and R2 port.

**Contact SMC for other voltages (9)**

**Protective class class I (Mark:  )**

**Note:**

- Manifold exploded view see page 1.19-34
### Manifold/Dimensions

#### L: Dimensions

<table>
<thead>
<tr>
<th>Size</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
<th>L4</th>
<th>L5</th>
<th>L6</th>
<th>L7</th>
<th>L8</th>
<th>L9</th>
<th>L10</th>
<th>Equation</th>
</tr>
</thead>
<tbody>
<tr>
<td>½</td>
<td>120</td>
<td>136</td>
<td>146</td>
<td>162</td>
<td>188</td>
<td>214</td>
<td>240</td>
<td>266</td>
<td>292</td>
<td>318</td>
<td>( n ): stations L1=56n+64 L2=56n+80</td>
</tr>
<tr>
<td>¾</td>
<td>127</td>
<td>152</td>
<td>176</td>
<td>202</td>
<td>236</td>
<td>270</td>
<td>304</td>
<td>338</td>
<td>372</td>
<td>406</td>
<td>( n ): stations L1=56n+90 L2=56n+106</td>
</tr>
</tbody>
</table>

( ): In case of direct manual override style.

#### Common EXH

![Diagram of Common EXH]

#### Individual SUP

![Diagram of Individual SUP]

---

( ): In case of direct manual override style.
## VS7-8

### Manifold/Dimensions

#### L: Dimensions

<table>
<thead>
<tr>
<th>Size</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>½&quot;</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>
</tr>
<tr>
<td>⅝&quot;</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>
</tr>
</tbody>
</table>

**Equation**

- \( L_1 = 56n + 64 \)
- \( L_2 = 56n + 80 \)
- \( L_3 = 56n + 90 \)
- \( L_4 = 56n + 106 \)

### V Type

#### Interface Regulator

#### Interface Speed Control

#### Bottom Piping

© : In case of direct manual override style.
Manifold Exploded View VS7-6

<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**
  - End plate position
    - **L** L side
    - **R** R side
  - **P, R port size**
    - **02** 1/4
    - **03** 3/8
    - **C12** ø12 One-touch fitting

**Manifold block assembly**

- **AXT502 - 1A**
  - **Cylinder port position**
    - **L** L side
    - **R** R side
  - **Cylinder port size**
    - **02** 1/4
    - **03** 3/8
    - **C6** (Note 1) ø6 One-touch fitting
    - **C8** (Note 1) ø8 One-touch fitting
    - **C10** (Note 1) ø10 One-touch fitting

**Tension bolt part number**

- **AXT502 - 34**
  - **Number of stations**
    - **2** For 2 stations
    - **3** For 3 stations
    - **10** For 10 stations
  - Note) These tie-rods are solid pieces for each number of stations.

**Manifold block replacement parts**

<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 ported only.

*This manifold block assembly includes tension bolts for a single station addition.*

*These tie-rods are solid pieces for each number of stations.*

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**Ordering source area code**

- **E** Europe
- **N** North America

**Code**

- **-** Japan, Asia, Australia
- **E** Europe
- **N** North America

**Wiring specification**

- **A** Side
- **B** Bottom

**Part No.**

- **SV**
- **SY**
- **SYJ**
- **SX**
- **VK**
- **VZ**
- **VF**
- **VFR**
- **VP7**
- **VQC**
- **SQ**
- **VQ**
- **VQ4**
- **VQ5**
- **VQZ**
- **VQD**
- **VFS**
- **VS**
- **VS7**
- **VQ7**
### VS7-8

#### Manifold Exploded View VS7-8

<table>
<thead>
<tr>
<th><strong>D side end plate assembly</strong></th>
<th><strong>Manifold block assembly</strong></th>
<th><strong>U side end plate assembly</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AXT512</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### < End plate assembly >

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

- **P, R port size**
  - L: 1/2
  - R: 3/4

- **Wiring specification**
  - A: Side
  - B: Bottom

- **Cylinder port position**
  - L: L side
  - R: R side

- **Cylinder port size**
  - L: 3/8
  - R: 1/2

#### < End plate assembly >

- **AXT512**
  - L: L side
  - R: R side

#### < Manifold block assembly >

- **Wiring specification**
  - A: Side
  - B: Bottom

- **Cylinder port position**
  - L: L side
  - R: R side

#### < Manifold block replacement parts >

<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>

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**Ordering source area code**

- E: Europe
- N: North America