For control valves, count on azbil.

We have extensive experience in process automation at home and abroad.

For over 80 years, since we made Japan’s first domestically produced control valves in 1936, we have delivered products to a wide variety of process automation sites inside and outside Japan. The technology we have accumulated through our abundant experience in the field is the heritage of each newly developed product, and is utilized to make ever more advanced general-purpose control valves with higher performance and greater reliability.

In addition to general-purpose valves, we have developed a number of products for specific applications, such as high or low temperature, super high pressure, corrosion resistance, abrasion resistance, and environmental friendliness.

In recent years, in order to create added value for plant operation by improving maintenance efficiency, reducing plant operating costs, etc., we acted quickly to make our valve positioners smart. These smart valve positioners, when connected with our PLUG-IN Valstaff control valve maintenance support system, provide new benefits throughout the control valve life cycle, such as assistance in preparing an efficient maintenance plan.

As a comprehensive supplier of control valves, the azbil Group continues to provide customers with added value in a variety of areas.
Selection of Control Valve

Select the appropriate valve.

**Single seated valves**
- Basic and most versatile type of control valve
  - Models: ADVB, ADVM, ACT, ALS, HTS, HLC, HSO

**Angle valves**
- For high differential pressure, slurry, or flashing service
  - Model No.: HAV, HAM, HAF, HAL, VAU
  - Page: 10

**3-way valves**
- Fluid mixing/separating by a single valve
  - Model No.: AMT, HDT
  - Page: 10

**Corrosion-resistant or abrasion-resistant valves**
- For operations and clean processes requiring corrosion-resistance or abrasion-resistance
  - Model No.: VOD, VNP, HLT, HLC
  - Page: 12

**Valves for the electric power market**
- For power generation facilities and special applications
  - Models: EGVM, EAVM, EGVT, EGVW, EGVD, EAVD

**Rotary valves**
- For processes requiring high capacity and wide control range

**Cage valves, Double seated valves, and Low-noise valves**
- For heavy-duty, high pressure and high differential pressure service
  - Models: ADVB, ADVM, AC2, ACP, ACHB, HPC, ACN, HCN, VDN

**Motorized valves**
- For fluid control without a compressed air supply
  - Model No.: ADVB, ADVM, ALS, HTS, ACT

Select the actuator type.

**Diaphragm actuators**
- General-purpose, most frequently used type of actuator
  - Model No.: HAI, VLS
  - Page: 14

**Cylinder actuators**
- For high-pressure, large-port valves
  - Model No.: PSAAR, PSAARL, DAP1000, DAP1500, GOM

Select the accessories.

**Positioners**
- Selected according to the operating conditions, including input signal, actuator, and atmospheres (waterproof, explosion-proof)
  - Model No.: AMT, HDT

**Air lock valve, pilot valve**
- If the air supply malfunctions these devices secure (lock) the valve position and control pneumatic circuit switchover.
  - Model No.: VFP03304 or OEM products

**Regulators with filter**
- Using K203 as the basic model number, select low/high pressure type, connection type, etc.
  - Model No.: KZ03, OEM products

**Solenoid valves**
- If needed, this device controls switchover of the pneumatic circuit (signals or supply pressure) with electric signals (on-off)
  - Model No.: OEM

**Volume booster**
- Used to make the pneumatic actuator operate more quickly or to reduce the delay of pneumatic signals
  - Model No.: OEM

**Limit switches**
- Added to the actuator in order to produce electric signals corresponding to the valve position (open/closed)
  - Model No.: VCL5000, VCX7001, VCX8001, VCX01, VCX021, VCX021
**General-purpose valves**

**Single seated valves**

### Top guided single seated control valve
**AGVBM_ _ / AGVML_ _**
- **Model No.:** AGVBM, AGVML
- **Pressure rating:** ANSI/JPI 150 to 600
- **End connection:** Flanged: RF, RJ
- **Body material:** Stainless steel
- **Trim material:** 440CSS
- **Temperature range:** -5 to 300°C
- **Application:** General-use process for petrochemical and chemical plant
- **Option:** Low emission gland packing, SS3-3G0000-001

### Small-port single seated control valve
**HLS_ _ / HILC_ _**
- **Model No.:** HLS, HILC
- **Pressure rating:** ANSI/JPI 150 to 600
- **End connection:** Flanged: RF, RJ
- **Body material:** Stainless steel
- **Trim material:** 440CSS
- **Temperature range:** 51 to 520°C
- **Application:** General-use process for petrochemical and chemical plant
- **Option:** Low emission gland packing, SS3-3G0000-001

### Top guided high pressure single seated control valve
**HPS_ _**
- **Model No.:** HPS
- **Pressure rating:** ANSI/JPI 150 to 2500
- **End connection:** Flanged: RF, RJ
- **Body material:** Stainless steel
- **Trim material:** 440CSS
- **Temperature range:** 8 to 520°C
- **Application:** General-use process for petrochemical and chemical plant
- **Option:** Low emission gland packing, SS3-3G0000-001

### Micro-flow control valve
**VSMV_ _**
- **Model No.:** VSMV
- **Pressure rating:** Threaded: NPT (inch), 1/2" to 1/4", Flanged: 1/2" to 1/4"
- **End connection:** Flanged: RF, RJ
- **Body material:** Stainless steel
- **Trim material:** Solid CoCr-A
- **Temperature range:** -30 to 400°C
- **Application:** Add-on process of chemical and perfume
- **Option:** Low emission gland packing, SS3-3G0000-001

---

**Valve type**

**Model No.**

**Pressure rating**

**End connection**

**Body material**

**Trim material**

**Temperature range**

**Application**

**Option**

---

**Industrial Control Valves**
Low leakage pressure balanced cage type control valves

<table>
<thead>
<tr>
<th>Valve type</th>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cage valves</td>
<td></td>
<td>General-purpose valves Cage valves, Double seated valves, Low-noise valves</td>
</tr>
</tbody>
</table>

Valve type: Low leakage pressure balanced cage type control valves

- ACP_ _
  - Pressure range: ANSI/JPI 150 to 600
  - Construction: SS2-8113-1100
  - Body material: 316SS, 316SS with CoCr-A
  - Range ability: ANSI/JPI 150 to 600
  - Trim material: SCS16A, SCS16A with CoCr-A
  - Application: High pressure service low-noise cage type double seated control valve
  - Specification: 304SS with Atomloy treatment
  - Class: 1500 or less: 14 to 820

Valve type: Cage valves, Double seated valves, Low-noise valves

- HCB_ _
  - Pressure range: ANSI/JPI 150 to 600
  - Construction: SS2-ACP110-0100
  - Body material: Stainless steel
  - Range ability: ANSI/JPI 150 to 600
  - Trim material: SCS16A, SCS16A with CoCr-A
  - Application: Large sized pressure balanced cage type control valves
  - Specification: 304SS with Stellite and Atomloy treatment
  - Class: 1500 or less: 12 to 700

Valve type: Cage valves, Double seated valves, Low-noise valves

- VDC_ _
  - Pressure range: ANSI/JPI 150 to 600
  - Construction: SS2-8110-1100
  - Body material: Stainless steel
  - Range ability: ANSI/JPI 150 to 600
  - Trim material: SCS16A, SCS16A with CoCr-A
  - Application: Large sized pressure balanced cage type control valves
  - Specification: 304SS with Stellite and Atomloy treatment
  - Class: 1500 or less: 12 to 700

Valve type: Cage valves, Double seated valves, Low-noise valves

- VDN_ _
  - Pressure range: ANSI/JPI 150 to 600
  - Construction: SS2-8110-1100
  - Body material: Stainless steel
  - Range ability: ANSI/JPI 150 to 600
  - Trim material: SCS16A, SCS16A with CoCr-A
  - Application: Large sized pressure balanced cage type control valves
  - Specification: 304SS with Stellite and Atomloy treatment
  - Class: 1500 or less: 12 to 700
### Large-port valves/Angle valves/3-way valves

#### Eccentric rotary control valve

**Model No.:** VFR

- **Valve type:** VFR
- **Body material:** Carbon steel/316SS
- **End connection:** RF
- **Pressure rating:** ANSI/JPI 150, 300
- **Temperature range:** -17 to 100°C

#### Ceramic trim angle control valve

**Model No.:** HAF

- **Valve type:** HAF
- **Body material:** Carbon steel, 316SS
- **End connection:** RF
- **Pressure rating:** ANSI/JPI 150
- **Temperature range:** -60 to 350°C

#### Super-high pressure angle control valve

**Model No.:** VAU

- **Valve type:** VAU
- **Body material:** Carbon steel, 316SS
- **End connection:** RF
- **Pressure rating:** ANSI/JPI 150
- **Temperature range:** -60 to 350°C

#### Three-way control valve

**Model No.:** AMT

- **Valve type:** AMT
- **Body material:** Carbon steel, 316SS
- **End connection:** RF
- **Pressure rating:** ANSI/JPI 150
- **Temperature range:** -17 to 100°C

#### Three way control valve for diverting service

**Model No.:** HDT

- **Valve type:** HDT
- **Body material:** Carbon steel, 316SS
- **End connection:** RF
- **Pressure rating:** ANSI/JPI 150
- **Temperature range:** -17 to 100°C

### Rotary valves/Angle valves/3-way valves

#### Venturi throat type angle control valve

**Model No.:** HAV

- **Valve type:** HAV
- **Body material:** Carbon steel, 316SS
- **End connection:** RF
- **Pressure rating:** ANSI/JPI 150
- **Temperature range:** -17 to 100°C

#### Venturi throat type control valve

**Model No.:** VAU

- **Valve type:** VAU
- **Body material:** Carbon steel, 316SS
- **End connection:** RF
- **Pressure rating:** ANSI/JPI 150
- **Temperature range:** -17 to 100°C

#### 3-way control valve

**Model No.:** AMT

- **Valve type:** AMT
- **Body material:** Carbon steel, 316SS
- **End connection:** RF
- **Pressure rating:** ANSI/JPI 150
- **Temperature range:** -17 to 100°C

#### Labyrinth trim angle control valve

**Model No.:** HAL

- **Valve type:** HAL
- **Body material:** Carbon steel, 316SS
- **End connection:** RF
- **Pressure rating:** ANSI/JPI 150
- **Temperature range:** -17 to 100°C

---

**Industrial Control Valves**
**Industrial Control Valves**

<table>
<thead>
<tr>
<th>Valve type</th>
<th>Model No.</th>
<th>Pressure rating</th>
<th>End connection</th>
<th>Body material</th>
<th>Trim material</th>
<th>Body</th>
<th>Casing</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weir diaphragm control valve</strong></td>
<td>VDD_ _ _</td>
<td>316LSS, 316LSS with CoCr-A</td>
<td>Flanged- RF (equivalent), FF</td>
<td>SS2-AGV200-0300</td>
<td></td>
<td></td>
<td></td>
<td>Cold and hot water, etc.</td>
</tr>
<tr>
<td><strong>Rigid PTFE/Bakelite body single seated control valve</strong></td>
<td>VNP_ _ _</td>
<td>316LSS, 316LSS with CoCr-A</td>
<td>Flanged- RF</td>
<td>SS2-8193-0310</td>
<td></td>
<td></td>
<td></td>
<td>Cold and hot water, etc.</td>
</tr>
<tr>
<td><strong>Corrosion-resistant PTFE body control valve</strong></td>
<td>HIT_ _ _</td>
<td>316LSS, 316LSS with CoCr-A</td>
<td>Flanged- RF</td>
<td>SS2-8114-1100</td>
<td></td>
<td></td>
<td></td>
<td>Cold and hot water, etc.</td>
</tr>
<tr>
<td><strong>Corrosion-resistant type small size ceramic control valve</strong></td>
<td>HMC_ _ _</td>
<td>316LSS, 316LSS with CoCr-A</td>
<td>Flanged- RF</td>
<td>SS2-8114-1100</td>
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<td><strong>Corrosion-abrasion-resistant type ceramic control valve</strong></td>
<td>HIC_ _ _</td>
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<td>Flanged- RF</td>
<td>SS2-8114-1100</td>
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**Structural drawing**

**Valve type**

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**Actuators**

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</table>
### Actuators

#### Multispring diaphragm motor
- **Model No.** HA2_ to HA4_
- **Valve type** Direct and reverse action
- **Stroke** 25 to 75mm
- **Action** Single action
- **Features** Compact, lightweight

#### Multispring diaphragm motor
- **Model No.** PSA2_ to PSA4_
- **Valve type** Direct and reverse action
- **Stroke** 14.3 to 38mm
- **Action** Single action
- **Features** Compact, lightweight

#### Spring piston cylinder
- **Model No.** PSA6R
- **Valve type** Reverse action
- **Stroke** 20 to 100mm
- **Action** Single action
- **Features** Compact, high power

#### High power spring cylinder
- **Model No.** DAP560, DAP1000, DAP1500
- **Valve type** Direct and reverse action
- **Stroke** 50 to 100mm
- **Action** Double action
- **Features** Compact, high power

#### Springless piston cylinder
- **Model No.** PSA2_ to PSA4_
- **Valve type** Direct and reverse action
- **Stroke** 14.3 to 38mm
- **Action** Single action
- **Features** Compact, lightweight

#### Springless piston cylinder
- **Model No.** HA2_ to HA4_
- **Valve type** Direct and reverse action
- **Stroke** 25 to 75mm
- **Action** Single action
- **Features** Compact, lightweight

#### Springless piston cylinder
- **Model No.** PSA6R
- **Valve type** Reverse action
- **Stroke** 20 to 100mm
- **Action** Single action
- **Features** Compact, high power

#### Multiplier lever diaphragm motor
- **Model No.** VASD, VASR
- **Valve type** Direct and reverse action
- **Stroke** 140 to 390mm
- **Action** Single action
- **Features** Compact, long stroke

#### Multiplier lever diaphragm motor
- **Model No.** HL2_ to HL4_
- **Valve type** Direct and reverse action
- **Stroke** 140 to 390mm
- **Action** Single action
- **Features** Compact, lightweight

#### Spring piston cylinder
- **Model No.** GOM83S to GOM124S
- **Valve type** Direct action
- **Stroke** 75 to 100mm
- **Action** Single action
- **Features** Compact, long stroke

#### Spring piston cylinder
- **Model No.** GOM64LM to GOM154LM
- **Valve type** Direct action
- **Stroke** 50 to 100mm
- **Action** Single action
- **Features** Compact, long stroke

#### Springless piston cylinder
- **Model No.** GOM44L to GOM1510L
- **Valve type** Direct and reverse action
- **Stroke** 100 to 250mm
- **Action** Double action
- **Features** Compact, long stroke
### Smart Valve Positioner 700 Series

**Model No.:** AVP77, AVP78, AVP79

**Features:**
- Easy zero/span adjustments, wide applicability
- Valve position transmitter function
- Anti-Vibration capabilities
- Single action/Double action

**Input Signal:** 4 to 20mA DC, split range setting available

**Ambient Temperature:** -40 to +80°C

**Pressure:** 140 to 700 kPa (1.4 to 7.0 kgf/cm²)

**Actuators:**
- Single action
- Double action

**Applications:**
- Certified for SIL (Safety Integrity Level) 3 Capable
- Partial Stroke Test (PST)
- Single action/Double action

**Accessories:***
- Communication: HART®, FOUNDATION Fieldbus
- Valve position transmitter function
- Valve signature and Stop Response Test
- Single action/Double action

### Smart Valve Positioner 200 Series

**Model No.:** AVP20

**Features:**
- Easy zero/span adjustments, wide applicability
- Valve position transmitter function
- Anti-Vibration capabilities
- Single action/Double action

**Input Signal:** 4 to 20mA DC, split range setting available

**Ambient Temperature:** -40 to +80°C

**Pressure:** 10 to 100 mm (Linear), to 90° (Rotary)

**Actuators:**
- Single action
- Double action

**Applications:**
- For small actuators on FloWing valves
- Single action
- Multipurpose

**Accessories:***
- Communication: HART®, FOUNDATION Fieldbus
- Valve position transmitter function
- Valve signature and Stop Response Test
- Single action/Double action

### Smart Valve Positioner 300 Series

**Model No.:** AVP30

**Features:**
- Easy zero/span adjustments, wide applicability
- Valve position transmitter function
- Compact, high performance, multifunctional
- Single action/Double action

**Input Signal:** 4 to 20mA DC, split range setting available

**Ambient Temperature:** -40 to +80°C

**Pressure:** 10 to 100 mm (Linear), to 90° (Rotary)

**Actuators:**
- Single action
- Double action

**Applications:**
- Single action/Double action
- Compact, high-performance, multifunctional
- Valve position transmitter function
- Easy zero/span adjustments, wide applicability

**Accessories:***
- Communication: HART®, FOUNDATION Fieldbus
- Valve position transmitter function
- Valve signature and Stop Response Test
- Single action/Double action

### Double action, pneumatic positioner

**Model No.:** VPR02, VPR03

**Features:**
- Easy zero/span adjustments
- Valve position transmitter function
- Anti-Vibration capabilities
- Single action/Double action

**Input Signal:** 4 to 20mA DC, split range setting available

**Ambient Temperature:** -40 to +80°C

**Pressure:** 340 to 690 kPa (3.5 to 7.0 kgf/cm²)

**Actuators:**
- Single action
- Double action, pneumatic positioner

**Applications:**
- Single action
- Multipurpose

**Accessories:***
- Communication: HART®, FOUNDATION Fieldbus
- Valve position transmitter function
- Valve signature and Stop Response Test
- Single action/Double action

### Smart Valve positioner for rotary valve

**Model No.:** SVX10

**Features:**
- Supplies clean, dry air under constant pressure
- Multipurpose
- Single action
- Double action

**Input Signal:** 4 to 20mA DC, split range setting available

**Ambient Temperature:** -30 to +70°C

**Pressure:** 200 kPa (2.0 kgf/cm²)

**Actuators:**
- Single action
- Multipurpose

**Applications:**
- Multipurpose
- Single action
- Double action

**Accessories:***
- Communication: HART®, FOUNDATION Fieldbus
- Valve position transmitter function
- Valve signature and Stop Response Test
- Single action/Double action

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**Notes:**
- The table above provides a summary of various valve positioners and their specifications.
- For detailed data sheets, please refer to the manufacturers' websites or contact the respective suppliers.
- The images illustrate different types of valve positioners, including Smart Valve Positioner 700 Series, Smart Valve Positioner 200 Series, and Smart Valve Positioner 300 Series.

---

**Table:**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Features</th>
<th>Input Signal</th>
<th>Ambient Temperature</th>
<th>Pressure Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVP77, AVP78, AVP79</td>
<td>Easy zero/span adjustments, wide applicability, valve position transmitter function, anti-vibration capabilities</td>
<td>4 to 20mA DC, split range setting available</td>
<td>-40 to +80°C</td>
<td>140 to 700 kPa (1.4 to 7.0 kgf/cm²)</td>
</tr>
<tr>
<td>AVP20</td>
<td>Easy zero/span adjustments, compact, high-performance, multifunctional</td>
<td>4 to 20mA DC, split range setting available</td>
<td>-40 to +80°C</td>
<td>10 to 100 mm (linear), to 90° (rotary)</td>
</tr>
<tr>
<td>AVP30</td>
<td>Easy zero/span adjustments, compact, high-performance, multifunctional</td>
<td>4 to 20mA DC, split range setting available</td>
<td>-40 to +80°C</td>
<td>10 to 100 mm (linear), to 90° (rotary)</td>
</tr>
<tr>
<td>AVP20</td>
<td>Easy zero/span adjustments, compact, high-performance, multifunctional</td>
<td>4 to 20mA DC, split range setting available</td>
<td>-40 to +80°C</td>
<td>10 to 100 mm (linear), to 90° (rotary)</td>
</tr>
<tr>
<td>AVP30</td>
<td>Easy zero/span adjustments, compact, high-performance, multifunctional</td>
<td>4 to 20mA DC, split range setting available</td>
<td>-40 to +80°C</td>
<td>10 to 100 mm (linear), to 90° (rotary)</td>
</tr>
<tr>
<td>AVP20</td>
<td>Easy zero/span adjustments, compact, high-performance, multifunctional</td>
<td>4 to 20mA DC, split range setting available</td>
<td>-40 to +80°C</td>
<td>10 to 100 mm (linear), to 90° (rotary)</td>
</tr>
<tr>
<td>AVP30</td>
<td>Easy zero/span adjustments, compact, high-performance, multifunctional</td>
<td>4 to 20mA DC, split range setting available</td>
<td>-40 to +80°C</td>
<td>10 to 100 mm (linear), to 90° (rotary)</td>
</tr>
<tr>
<td>AVP20</td>
<td>Easy zero/span adjustments, compact, high-performance, multifunctional</td>
<td>4 to 20mA DC, split range setting available</td>
<td>-40 to +80°C</td>
<td>10 to 100 mm (linear), to 90° (rotary)</td>
</tr>
<tr>
<td>AVP30</td>
<td>Easy zero/span adjustments, compact, high-performance, multifunctional</td>
<td>4 to 20mA DC, split range setting available</td>
<td>-40 to +80°C</td>
<td>10 to 100 mm (linear), to 90° (rotary)</td>
</tr>
</tbody>
</table>

---

**Image:**

- Shows various valve positioners and accessories for industrial control valves.
- Images include Smart ESD Device 700 Series, Smart Valve Positioner 700 Series, Smart Valve Positioner 200 Series, and others.

---

**Additional Information:**
- The images and text provide a comprehensive overview of valve positioners and their applications.
- For more detailed specifications, please consult the manufacturers' data sheets or technical manuals.
### Valves

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Input signal</th>
<th>Stroke range</th>
<th>Air supply pressure</th>
<th>Ambient temperature</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>VCL-5001</td>
<td>Controllable</td>
<td>20 to 660 kPa (0.2 to 6.6 kgf/cm²)</td>
<td>120 to 290 kPa (1.2 to 3.0 kgf/cm²)</td>
<td>-30 to +80°C</td>
<td>-30 to +80°C</td>
</tr>
<tr>
<td>VCX-7001</td>
<td>Controllable</td>
<td>20 to 200 kPa (0.2 to 2.0 kgf/cm²)</td>
<td>Max. 690 kPa (7.0 kgf/cm²)</td>
<td>No.SS2-8310-0800</td>
<td>No.SS2-8310-0800</td>
</tr>
<tr>
<td>1LX7001</td>
<td>Controllable</td>
<td>40 to 80 kPa (0.4 to 0.8 kgf/cm²)</td>
<td>Max. 690 kPa (7.0 kgf/cm²)</td>
<td>No.SS2-8310-0800</td>
<td>No.SS2-8310-0800</td>
</tr>
</tbody>
</table>

- Verifying the fully opened or fully closed position of control valve

### Special Purpose Valves

- Cage Valve for LNG (20 in.)
- Bottom Plug Valve
- Super Low-Temperature Valve for Liquid Hydrogen

### Accessories

- Pneumatic relay (with manual reset)
- Air lock relay

### Actuators

- Pneumatic relay (with manual reset)
- Limit switch

**Features**

- Combines compact 3-way on/off valve and diaphragm motor with reset mechanism.
- For specialized on/off switching with both automatic and manual operations.

**Specifications**

- Max. 690 kPa (7.0 kgf/cm²)
- 120 to 290 kPa (1.2 to 3.0 kgf/cm²)
- -30 to +80°C

**Accessories**

- VF03
- VF04

### Structural Drawing

- Cage Valve for LNG (20 in.)
- Bottom Plug Valve
- Super Low-Temperature Valve for Liquid Hydrogen

### Valve Type

- Single Seated Valves
- Double Seated Valves
- Low-noise Valves
- Angle Valves
- 3-way Valves
- Corrosion-resistant or Abrasion-resistant Valves
- Motorized Valves
- Actuators
- Special Purpose Valves
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