For control valves, count on azbil.

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

In 1936 we made the first domestically manufactured control valve, and for over 80 years since we have been supplying a variety of products for process automation workplaces in Japan and around the world.

The technological know-how we accumulated through abundant experience at customers’ work sites informed the development of the 1000 series, V series, CV3000 series, and the CV3000 Alphaplus™ series, and has been used to bring about improved performance and reliability in our general-purpose control valves.

In addition to products for general-purpose use, we have developed products designed for specific applications, such as high or low temperatures, very high pressures, corrosion resistance, and abrasion resistance.

To add value to customers’ operations by increasing maintenance efficiency, reducing plant running costs, etc., we acted promptly to make our valve positioners “smart.” Planning efficient valve maintenance is easy if the SVP3000 Alphaplus Series Smart Valve Positioner is connected to the Valstaff™ control valve maintenance support system. We now offer this new method for increasing the operating life of control valves.

As a comprehensive supplier of control valves, the azbil Group continuously strives to add value to customers’ operations in various ways.

[Image of various industrial settings: Chemical plants, Petrochemical plants, Thermal power stations, Oil refineries, Steel mills]
Selection of Control Valve

Select the appropriate valve.

- **Single seated valves**
  - Basic and most versatile type of control valve
  - Model No.: AGVB, AGVM

- **Angle valves**
  - For high differential pressure, slurry, or flushing service
  - Model No.: HAV, HAM, HAP, MAL, VAU

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

- **Corrosion-resistant or abrasion-resistant valves**
  - For operations and clean processes requiring corrosion-resistance or abrasion-resistance
  - Model No.: VFR

- **Rotary valves**
  - For processes requiring high capacity and wide control range
  - Model No.: VFR

- **Large-port and high-flow valves**
  - For high flow and low load operations
  - Model No.: VBL, VBM, VBH, VBS

- **Motorized valves**
  - For fluid control without a compressed air supply
  - Model No.: AGVB, AGVM, HLS, HTS, HMC, ACT, VFR

Select the actuator type.

- **Diaphragm actuators**
  - General-purpose, most frequently used type of actuator
  - Model No.: HA, HL, PSA1-4, VA

- **Cylinder actuators**
  - For high-pressure, large-port valves
  - Model No.: PSA67, DAP, DGM

Select the accessories.

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

- **Air lock valve, pilot valve**
  - If the air supply malfunctions these devices secure (lock) the valve position and control pneumatic circuit switchover
  - Model No.: KZ03, VPE, VPP, VPR

- **Solenoid valves**
  - If needed, this device controls switchover of the pneumatic circuit (signals or supply pressure) with electric signals (on-off)
  - Model No.: KZ03

- **Regulators with filter**
  - Using KZ03 as the basic model number, select low/high pressure type, connection type, etc.
  - Model No.: KZ03, AW40

- **Volume booster**
  - Used to make the pneumatic actuator operate more quickly or to reduce the delay of pneumatic signals
  - Model No.: IL100

- **Limit switches**
  - Added to the actuator in order to produce electric signals corresponding to the valve position (open/closed)
  - Model No.: VCL5000, VCLX7000, LX7000

- **Diaphragm actuators**
  - General-purpose, most frequently used type of actuator
  - Model No.: HA, HL, PSA1-4, VA

- **Cylinder actuators**
  - For high-pressure, large-port valves
  - Model No.: PSA67, DAP, DGM
# General-purpose valves

## Top guided single seated control valve

**AGV8/AGVM**

- **Valve type:** Top guided single seated control valve
- **Model No.:** AGV8, ANSUL 150 to 600
- **Pressure rating:** ANSI/JPI 900 to 2500
- **End connection:** Flanged: RF, FF

### Specification
- **Body material:** Carbon steel
- **Trim material:** Stainless steel

### Application
- **Temperature range:** 0 to 520°C
- **Leakage performance:** Class IV
- **Cv range:** 56 to 315
- **Range ability:** 20:1

### Option
- **Low leakage packing system:** SS2-8110-0001

## Small-port single seated control valve

**HLS/HLC**

- **Valve type:** Small-port single seated control valve
- **Model No.:** HLS, ANSUL 150 to 600

### Specification
- **Body material:** Carbon steel
- **Trim material:** Stainless steel

### Application
- **Temperature range:** 0 to 520°C
- **Leakage performance:** Class IV
- **Cv range:** 56 to 315
- **Range ability:** 20:1

## Single seated valves

### Top guided single seated control valve

**AGV8/AGVM**

- **Valve type:** Top guided single seated control valve
- **Model No.:** AGV8, ANSUL 150 to 600
- **Pressure rating:** ANSI/JPI 900 to 2500
- **End connection:** Flanged: RF, FF

### Specification
- **Body material:** Carbon steel
- **Trim material:** Stainless steel

### Application
- **Temperature range:** 0 to 520°C
- **Leakage performance:** Class IV
- **Cv range:** 56 to 315
- **Range ability:** 20:1

### Option
- **Low leakage packing system:** SS2-8110-0001

### Top guided high pressure single seated control valve

**HPS**

- **Valve type:** Top guided high pressure single seated control valve
- **Model No.:** HPS, ANSUL 150 to 2500

### Specification
- **Body material:** Carbon steel
- **Trim material:** Stainless steel

### Application
- **Temperature range:** 0 to 520°C
- **Leakage performance:** Class IV
- **Cv range:** 56 to 315
- **Range ability:** 20:1

### Option
- **Low leakage packing system:** SS2-8113-0001

### High-pressure service top guided single seated control valve

**HST/HSC**

- **Valve type:** High-pressure service top guided single seated control valve
- **Model No.:** HST, ANSUL 150 to 2500

### Specification
- **Body material:** Stainless steel
- **Trim material:** Solid Stellite

### Application
- **Temperature range:** -196 to 566°C
- **Leakage performance:** Class IV
- **Cv range:** 0.01 to 14
- **Range ability:** 20:1 to 50:1

### Option
- **Low leakage packing system:** SS2-8110-0300/0310

## Micro-flow control valve

**VSM**

- **Valve type:** Micro-flow control valve
- **Model No.:** VSM

### Specification
- **Body material:** Stainless steel
- **Trim material:** Solid Stellite

### Application
- **Temperature range:** -196 to 566°C
- **Leakage performance:** Class IV
- **Cv range:** 0.001 to 0.63
- **Range ability:** 20:1 to 30:1

### Option
- **Addition process of chemical and perfume:** SS2-8110-0600

---

*Industrial Control Valves*
### General-purpose valves

**Cage valves, Double seated valves, Low-noise valves**

#### Pressure-balanced cage type control valve

<table>
<thead>
<tr>
<th>Valve type</th>
<th>Model No.</th>
<th>Pressure rating</th>
<th>Body material</th>
<th>Trim material</th>
<th>End connection</th>
<th>Option</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC2</td>
<td>ACP</td>
<td>Low leakage pressure balanced cage type control valves</td>
<td>ANSI/JPI 150 to 600 JIS10K to 30K</td>
<td>Carbon steel, Stainless steel</td>
<td>Flanged : RF, FF, RJ</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>ACP</td>
<td>HCB</td>
<td>Pressure-balanced cage type control valve</td>
<td>ANSI/JPI 150 to 600 JIS10K to 30K</td>
<td>Carbon steel, Stainless steel</td>
<td>Flanged : RF, FF, RJ</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>HCB</td>
<td>ACN</td>
<td>Pressure-balanced cage type control valve</td>
<td>ANSI/JPI 150 to 600 JIS10K to 30K</td>
<td>Carbon steel, Stainless steel</td>
<td>Flanged : RF, FF, RJ</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>ACN</td>
<td>HCN</td>
<td>Low-noise cage type control valve</td>
<td>ANSI/JPI 150 to 600 JIS10K to 30K</td>
<td>Carbon steel, Stainless steel</td>
<td>Flanged : RF, FF, RJ</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>HCN</td>
<td>ALV/ALVM</td>
<td>Large seated pressure balanced cage type control valve</td>
<td>ANSI/JPI 150 to 600 JIS10K to 30K</td>
<td>Carbon steel, Stainless steel</td>
<td>Flanged : RF, FF, RJ</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>ALV/ALVM</td>
<td>HPC</td>
<td>Pressure balanced high pressure cage type control valve</td>
<td>ANSI/JPI 150 to 600 JIS10K to 30K</td>
<td>Carbon steel, Stainless steel</td>
<td>Flanged : RF, FF, RJ</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

#### Cage type double seated control valve

<table>
<thead>
<tr>
<th>Valve type</th>
<th>Model No.</th>
<th>Pressure rating</th>
<th>Body material</th>
<th>Trim material</th>
<th>End connection</th>
<th>Option</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>VDC</td>
<td>ADV/ADV</td>
<td>Cage type double seated control valve</td>
<td>ANSI/JPI 150 to 600 JIS10K to 30K</td>
<td>Carbon steel, Stainless steel</td>
<td>Flanged : RF, FF, RJ</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>ADV/ADV</td>
<td>ACN</td>
<td>Low-noise cage type control valve</td>
<td>ANSI/JPI 150 to 600 JIS10K to 30K</td>
<td>Carbon steel, Stainless steel</td>
<td>Flanged : RF, FF, RJ</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>ACN</td>
<td>VDC</td>
<td>High pressure arterial low noise cage type double seated control valve</td>
<td>ANSI/JPI 150 to 600 JIS10K to 30K</td>
<td>Carbon steel, Stainless steel</td>
<td>Flanged : RF, FF, RJ</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>VDC</td>
<td>HPC</td>
<td>General-purpose valves</td>
<td>ANSI/JPI 150 to 600 JIS10K to 30K</td>
<td>Carbon steel, Stainless steel</td>
<td>Flanged : RF, FF, RJ</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

#### Actuators

<table>
<thead>
<tr>
<th>Actuator type</th>
<th>Model No.</th>
<th>Pressure rating</th>
<th>Body material</th>
<th>Trim material</th>
<th>End connection</th>
<th>Option</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motorized</td>
<td>ANL/R</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Special purpose</td>
<td>VDN</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>
Valve type
Model No.
Pressure rating
End connection
Body material
Trim material
Applicability
Option

Eccentric rotary control valve
VFR

ANSLR 150, 300, 600
| ANSI 150, 300, 600 |

Flanged: RF
Carbon steel
Stainless steel

5.6 to 240°C
Class IV
2000 to 1500

100:1

Multi-hole plate for anti-cavitation and low noise

Super-high pressure angle control valve
VAU

ANSLR 150, 300
| ANSI 150, 300 |

Flanged: RF
Carbon steel
Stainless steel

5 to 100°C
Class IV

0.003 to 0.006 (ON-OFF 0.062)

Hard start service

Three way control valve
AMT

ANSLR 150, 300
| ANSI 150, 300 |

Flanged: RF
Carbon steel
Stainless steel

316SS, 316SS with Stellite
316LSS, 316LSS with Stellite

-17 to 350°C

Diving of low pressure fluid

Three way control valve for diverting service
HDT

ANSLR 150, 300
| ANSI 150, 300 |

Flanged: RF
Carbon steel
Stainless steel

316SS, 316SS with Stellite
316LSS, 316LSS with Stellite

35 to 70°C

Diving of fluid
## Industrial Control Valves

### Special purpose valves

<table>
<thead>
<tr>
<th>Valve type</th>
<th>Model No.</th>
<th>Pressure rating</th>
<th>Body material</th>
<th>Trim material</th>
<th>End connection</th>
<th>Actuator type</th>
<th>Description</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weir diaphragm control valve</td>
<td>VDD</td>
<td>ANSI 150</td>
<td>None</td>
<td>PTFE, glass-reinforced PTFE</td>
<td>RF, FF</td>
<td>Electric top guided</td>
<td>1/2&quot; to 6&quot;</td>
<td>20:1 to 50:1 (option 75:1)</td>
</tr>
<tr>
<td>Rigid PTFE/polypropylene single seated control valve</td>
<td>VNP</td>
<td>ANSI/LUR 150</td>
<td>None</td>
<td>PTFE</td>
<td>RF, FF</td>
<td>Electric top guided</td>
<td>1/2&quot; to 6&quot;</td>
<td>20:1 to 50:1 (option 75:1)</td>
</tr>
<tr>
<td>Corrosion-resistant PTFE body control valve</td>
<td>HIT</td>
<td>ANSI 150</td>
<td>None</td>
<td>PTFE</td>
<td>RF</td>
<td>Electric top guided</td>
<td>1/2&quot; to 6&quot;</td>
<td>20:1 to 50:1 (option 75:1)</td>
</tr>
</tbody>
</table>

### Motorized valves

<table>
<thead>
<tr>
<th>Valve type</th>
<th>Model No.</th>
<th>Pressure rating</th>
<th>Body material</th>
<th>Trim material</th>
<th>End connection</th>
<th>Actuator type</th>
<th>Description</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric top guided single seated control valve</td>
<td>AGVB/AGVM</td>
<td>ANSI/LUR 150, 300, 600</td>
<td>None</td>
<td>PTFE, glass-reinforced PTFE</td>
<td>RF</td>
<td>Electric top guided</td>
<td>1/2&quot; to 6&quot;</td>
<td>20:1 to 50:1 (option 75:1)</td>
</tr>
<tr>
<td>Electric pressure-balanced cage type control valve</td>
<td>HCB</td>
<td>ANSI/LUR 150 to 800</td>
<td>None</td>
<td>PTFE</td>
<td>RF</td>
<td>Electric top guided</td>
<td>1/2&quot; to 6&quot;</td>
<td>20:1 to 50:1 (option 75:1)</td>
</tr>
</tbody>
</table>

### Structural drawing

- **Valve type**: Special purpose valves
- **Model No.**: VDD, VNP, HIT, AGVB, HLS, HTS, AGVM, VNP, HIT, VDD, VNP, HIT, VDD, VNP, HIT
- **Pressure rating**: ANSI, JIS, EN
- **Body material**: Stainless steel, Carbon steel
- **Trim material**: PTFE, Glass-reinforced PTFE, PTFE, Glass-reinforced PTFE, PTFE, Glass-reinforced PTFE, PTFE, Glass-reinforced PTFE
- **End connection**: RF, FF, SW, BW
- **Actuator type**: Electric top guided
- **Description**: Weir diaphragm control valve, Rigid PTFE/polypropylene single seated control valve, Corrosion-resistant PTFE body control valve
- **Application**: • corrosion service as acid and alkali • powder or high viscosity service

### Cage valves, Double seated valves, Low-noise valves

- **Valve type**: Cage valves, Double seated valves, Low-noise valves
- **Model No.**: VDD, VNP, HIT
- **Pressure rating**: ANSI, JIS, EN
- **Body material**: Stainless steel, Carbon steel
- **Trim material**: PTFE, Glass-reinforced PTFE, PTFE, Glass-reinforced PTFE, PTFE, Glass-reinforced PTFE
- **End connection**: RF, FF, SW, BW
- **Actuator type**: Electric top guided
- **Description**: Weir diaphragm control valve, Rigid PTFE/polypropylene single seated control valve, Corrosion-resistant PTFE body control valve
- **Application**: • corrosion service as acid and alkali • powder or high viscosity service

### 3-way valves

- **Valve type**: 3-way valves
- **Model No.**: VDD, VNP, HIT
- **Pressure rating**: ANSI, JIS, EN
- **Body material**: Stainless steel, Carbon steel
- **Trim material**: PTFE, Glass-reinforced PTFE, PTFE, Glass-reinforced PTFE, PTFE, Glass-reinforced PTFE
- **End connection**: RF, FF, SW, BW
- **Actuator type**: Electric top guided
- **Description**: Weir diaphragm control valve, Rigid PTFE/polypropylene single seated control valve, Corrosion-resistant PTFE body control valve
- **Application**: • corrosion service as acid and alkali • powder or high viscosity service

### Actuators

- **Valve type**: Actuators
- **Model No.**: VDD, VNP, HIT
- **Pressure rating**: ANSI, JIS, EN
- **Body material**: Stainless steel, Carbon steel
- **Trim material**: PTFE, Glass-reinforced PTFE, PTFE, Glass-reinforced PTFE, PTFE, Glass-reinforced PTFE
- **End connection**: RF, FF, SW, BW
- **Actuator type**: Electric top guided
- **Description**: Weir diaphragm control valve, Rigid PTFE/polypropylene single seated control valve, Corrosion-resistant PTFE body control valve
- **Application**: • corrosion service as acid and alkali • powder or high viscosity service

### Special purpose valves

- **Valve type**: Special purpose valves
- **Model No.**: VDD, VNP, HIT
- **Pressure rating**: ANSI, JIS, EN
- **Body material**: Stainless steel, Carbon steel
- **Trim material**: PTFE, Glass-reinforced PTFE, PTFE, Glass-reinforced PTFE, PTFE, Glass-reinforced PTFE
- **End connection**: RF, FF, SW, BW
- **Actuator type**: Electric top guided
- **Description**: Weir diaphragm control valve, Rigid PTFE/polypropylene single seated control valve, Corrosion-resistant PTFE body control valve
- **Application**: • corrosion service as acid and alkali • powder or high viscosity service
**Smart Valve Positioner 700 Series**

**AVP777/787/797**

- 4 to 20mA DC, 0 to 20mA DC, 0 to 10V DC
- 140 to 700 kPa (1.4 to 7.0 kgf/cm²)
- -40°C to +80°C
- Single action/Double action
- Fieldbus, SPI, Analog outputs
- Local User Interface (LUI) : Liquid Crystal display and push buttons
- Certified for SIL (Safety Integrity Level) 3 Capable
- Communication : HART®, FOUNDATION Fieldbus
- For use with high-pressure actuators

**AVP701/702/703**

- 4 to 20mA DC, FOUNDATION Fieldbus
- 140 to 700 kPa (1.4 to 7.0 kgf/cm²)
- -40°C to +80°C
- Single action/Double action
- Fieldbus, SPI, Analog outputs
- Local User Interface (LUI) : Liquid Crystal display and push buttons
- Certified for SIL (Safety Integrity Level) 3 Capable
- Communication : HART®, FOUNDATION Fieldbus
- For use with high-pressure actuators

**AVP300/301/302**

- 4 to 20mA DC, split range setting available
- 0 to 20mA DC (Linear), to 90° (Rotary)
- 140 to 700 kPa (1.4 to 7.0 kgf/cm²)
- -40°C to +80°C
- Single action/Double action
- Fieldbus, SPI, Analog outputs
- Local User Interface (LUI) : Liquid Crystal display and push buttons
- Certified for SIL (Safety Integrity Level) 3 Capable
- Communication : HART®, FOUNDATION Fieldbus
- For use with high-pressure actuators

**Smart ESD Device 700 Series**

**AVP777/787/797**

- 4 to 20mA DC, 0 to 20mA DC, 0 to 10V DC
- 140 to 700 kPa (1.4 to 7.0 kgf/cm²)
- -40°C to +80°C
- Single action/Double action
- Fieldbus, SPI, Analog outputs
- Local User Interface (LUI) : Liquid Crystal display and push buttons
- Certified for SIL (Safety Integrity Level) 3 Capable
- Communication : HART®, FOUNDATION Fieldbus
- For use with high-pressure actuators

**Smart Valve Positioner 200 Series**

**AVP200/201/202**

- 4 to 20mA DC, split range setting available
- 12 to 100 mm (Linear), to 90° (Rotary)
- 140 to 700 kPa (1.4 to 7.0 kgf/cm²)
- -40°C to +80°C
- Single action/Double action
- Fieldbus, SPI, Analog outputs
- Local User Interface (LUI) : Liquid Crystal display and push buttons
- Communication : HART®, FOUNDATION Fieldbus
- Easy zero/span adjustments, wide applicability

**Pneumatic positioner**

**VPR**

- 20 to 98 kPa, 20 to 690 kPa
- 0 to 1.0, 0.2 to 0.6, 0 to 1.0 kgf/cm²
- 4 to 25 mm
- -20 to +70°C
- Single action
- For use with high-pressure actuators

**Pneumatic positioner**

**VPPO8**

- 20 to 98 kPa, 20 to 690 kPa
- 0 to 1.0, 0.2 to 0.6, 0 to 1.0 kgf/cm²
- 30 to 600 mm (3.0 to 6.0 kgf/cm²)
- -20 to +70°C
- Single action
- Multipurpose

**Pneumatic positioner**

**VPP02/03**

- 20 to 98 kPa, 20 to 690 kPa
- 0.2 to 1.0, 0.2 to 0.6, 0.6 to 1.0 kgf/cm²
- 4 to 25 mm
- -20 to +70°C
- Single action
- Multipurpose

**Smart Valve positioner for rotary valve**

**SVX**

- 4 to 20mA DC, split range setting available
- 140 to 700 kPa (1.4 to 7.0 kgf/cm²)
- -40°C to +80°C
- Single action
- Communication : HART®, FOUNDATION Fieldbus
- Easy zero/span adjustments

**Pneumatic positioner**

**HTP**

- 20 to 98, 20 to 690, 690 to 3900 kPa
- 0.2 to 1.0, 0.2 to 0.6, 0.6 to 1.0 kgf/cm²
- 140 to 700 kPa (1.4 to 7.0 kgf/cm²)
- -40°C to +80°C
- Single action
- Communication : HART®, FOUNDATION Fieldbus

**Double action, pneumatic positioner**

**VPP02/03**

- 20 to 98 kPa, 20 to 690 kPa
- 0.2 to 1.0, 0.2 to 0.6, 0.6 to 1.0 kgf/cm²
- 4 to 25 mm
- -20 to +70°C
- Single action
- Multipurpose

**Air pressure regulator with filter**

**KZ03-2/-3**

- Supplies clean, dry air under constant pressure
- Single action
- Multipurpose

**Motorized valves**

**Actuators**

**3-way valves**

**Double seated valves**

**Single seated valves**

**Low-noise valves**

**Corrosion-resistant valves**

**Abrasion-resistant valves**

**Angle valves**

**Rotary valves**

**Special purpose valves**

**Cage valves**

**Double seated valves**

**Low-noise valves**

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

### Accessories

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>VF02</td>
<td>Air lock relay</td>
</tr>
<tr>
<td>VF03</td>
<td>Pneumatic relay (with manual reset)</td>
</tr>
<tr>
<td>VF04</td>
<td>Pneumatic relay</td>
</tr>
</tbody>
</table>

### Positioner/others

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>IL100</td>
<td>Booster relay</td>
</tr>
<tr>
<td>VCL5001/LX7000/VCX7000</td>
<td>Limit switch</td>
</tr>
<tr>
<td>VF03</td>
<td>Solenoid valve</td>
</tr>
<tr>
<td>VCL5001/LX7000/VCX7000</td>
<td>ASCO 3-way solenoid valve</td>
</tr>
</tbody>
</table>

### Special purpose valves

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS2-8310-0800</td>
<td>Valve type</td>
</tr>
<tr>
<td>IL100</td>
<td>Cage Valve for LNG (20 in.)</td>
</tr>
<tr>
<td>VF03</td>
<td>Super low-temperature Valve for Liquid Hydrogen</td>
</tr>
<tr>
<td>VF04</td>
<td>Let-down Valve for Coal Liquefaction</td>
</tr>
<tr>
<td>VF04</td>
<td>Minimum Flow Valve for Pumps</td>
</tr>
</tbody>
</table>

### Structural drawing

- Cage valves
- Double seated valves
- Low noise valves
- Angle valves
- 3-way valves
- Corrosion-resistant or abrasion-resistant valves
- Motorized valves
- Actuators
- Special purpose valves
We create value together with customers at their site through human-centered automation.

We solve issues in a wide array of industries, from oil refining, chemical, iron and steel, pulp and paper to automobiles, electrical/electronic, semiconductor, and foods and beverages, through the provision of products, solutions, instrumentation, engineering and maintenance service to support optimal operation of the customers’ facilities throughout their lifecycle. Collaborating with people involved in production, we develop advanced measurement and control technologies, and strive to realize a production site where workers can develop their own skills in safety, thus creating new value for our customers.

Using mobile terminals, gain a clear picture of what is happening on site throughout the factory.

Operate the equipment after checking instructions and guidance.

Monitor the production status throughout the factory and operate the equipment.

Gain a clear idea of how production is proceeding by using on-site indicators and recorders.

Please read “Terms and Conditions” from the following URL before ordering and use.
http://www.azbil.com/products/factory/order.html

[Notice] Specifications are subject to change without notice.
No part of this publication may be reproduced or duplicated without the prior written permission of Azbil Corporation.

Azbil Corporation
Advanced Automation Company
Yamatake Corporation changed its name to Azbil Corporation on April 1, 2012.

1-12-2 Kawana, Fujisawa
Kanagawa 251-8522 Japan
URL: http://www.azbil.com

CA2-8000