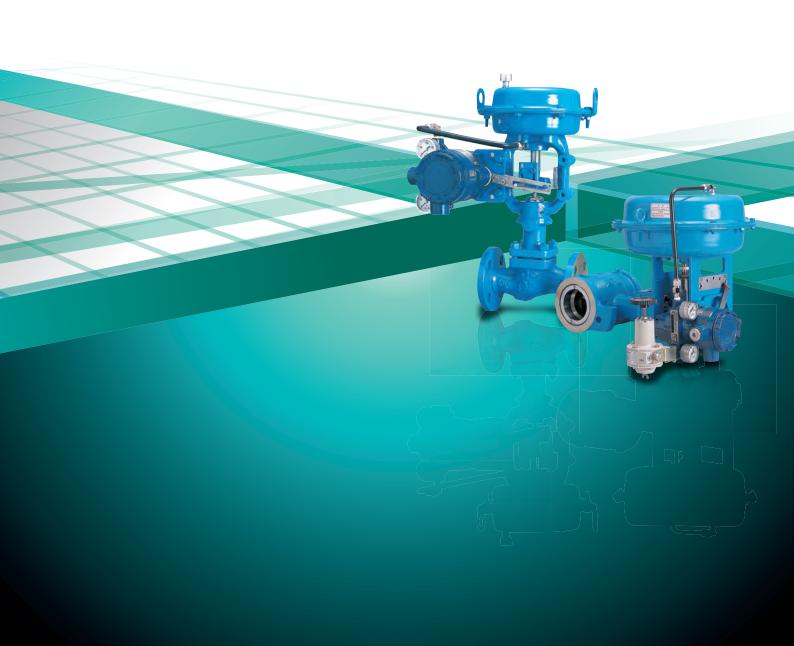


# Industrial Control Valves

Selection Guide



# 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.



Chemical plants



Oil refinerie



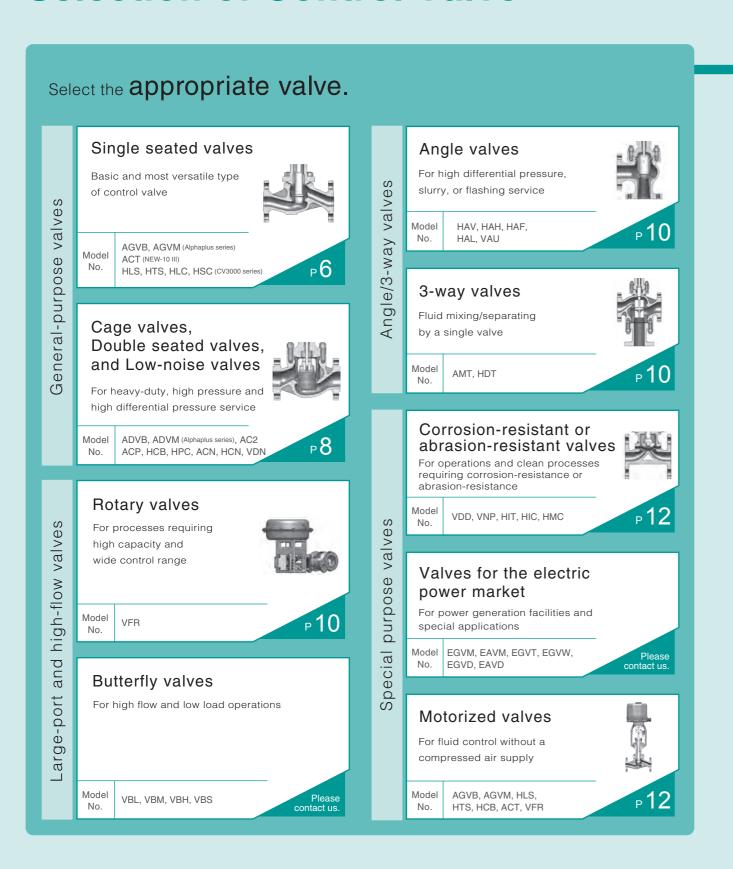
Steel mills

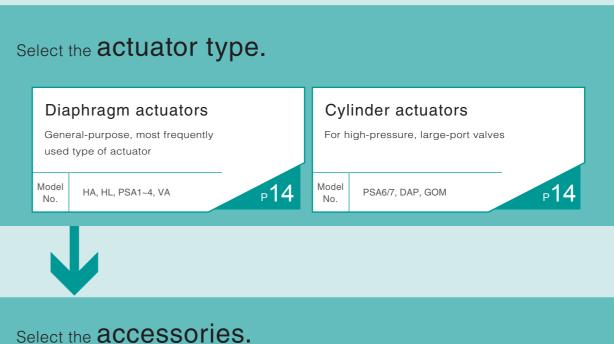


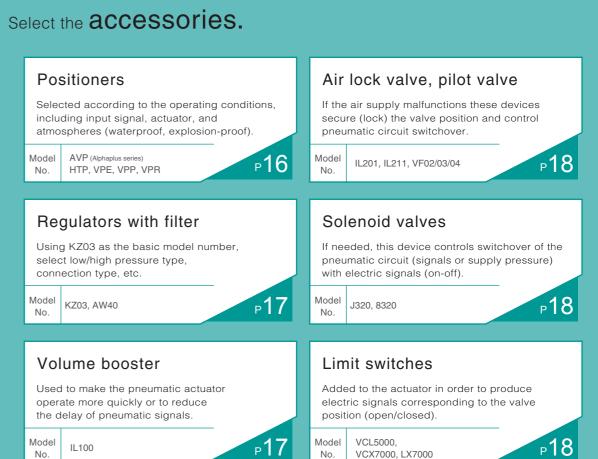


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## **Selection of Control Valve**







Double seated valves, Low-noise valves

Cage valves,

Rotary

Angle

3-way

Corrosionresistant or abrasionresistant valves

Motorized valves

Actuators

Accessories

Special purpose valves

drawing

Valve type Model No.



### AGVB/AGVM

1/2" to 4" AGVB: ANSI/JPI 150, JIS10K AGVM: ANSI/JPI 300.JIS16K to 30K Flanged : RF, FF Welded : SW, BW Carbon steel

> 440CSS 316SS, 316SS with Stellite 316LSS, 316LSS with Stellite

> > -196 to 400°C Class IV, IV-S1, V

> > > 0.1 to 200

20:1 to 50:1 (option 75:1) General-use process for petrochemical and chemical plant

> Low leakage packing system SS2-AGV200-0001



Single seated valves

### Small-port single seated control valve

### **HLS/HLC**

1/2" to 1" ANSI/JPI 150 to 600 JIS10K to 30K Flanged : RF, FF, RJ Welded : SW, BW Carbon steel

440CSS 316SS, 316SS with Stellite 316LSS, 316LSS with Stellite 329J1SS

Class IV, IV-S1, V, VI

0.01 to 14

20:1 to 50:1 (option 75:1) General-use process for petrochemical and chemical plant flushing service

Bellow seal bonnet, steam jacket

SS2-8113-0200/0210



### Valve type Model No.



### Top guided single seated control valve

### **VST**

5", 10", 12" ANSI/JPI 150 to 600 JIS10K to 30K Flanged : RF, FF, RJ Welded : SW. BW Carbon steel Stainless steel

440CSS 316SS, 316SS with Stellite 316LSS, 316LSS with Stellite

> -101 to 520°C Class IV, IV-S1, V, VI

> > 99 to 1440

30:1

General-use process for petrochemical and chemical plant

SS2-8110-0300



### Top guided high pressure single seated control valve

### **HPS**

ANSI/JPI 900 to 2500 JIS63K Flanged : RF, RJ Welded : SW, BW Carbon steel Stainless steel

440CSS 316SS, 316SS with Stellite

-5 to 566°C Class IV class 1500 or less: 0.25 to 110 class 2500: 0.25 to 75

50:1 (option 75:1) High temperature and high pressure steam of boiler and turbine unit for power plant and private power generation

SS2-8113-0400



### HTS/HSC

1-1/2" to 8" ANSI/JPI 150 to 600 JIS10K to 30K Flanged : RF, FF, RJ Welded : SW, BW Carbon steel 440CSS

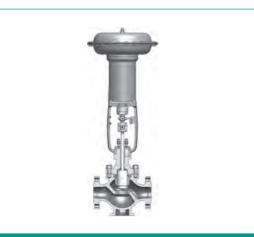
316SS, 316SS with Stellite 316LSS, 316LSS with Stellite 329J1SS 196 to 566°C Class IV, IV-S1, V, VI

10 to 700

50:1 (option 75:1) General-use process for petrochemical and chemical plant

flushing service

Bellow seal bonnet, steam jacket SS2-8113-0300/0310



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

### **VST**

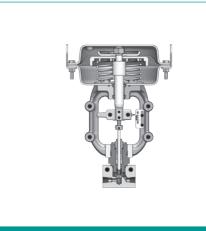
4", 5", 6" ANSI/JPI 900 to 2500 JIS63K Flanged : RF, RJ Welded: SW. BW Carbon steel

> 440CSS SUS304 with Stellite

0 to 520°C Class IV class 1500 or less : 56 to 315 class 2500 : 39 to 210 30:1

High temperature and high pressure steam of boiler and turbine unit for power plant and private power generation

SS2-8110-0400



### Micro-flow control valve

### **VSM**

Threaded: NPT (Rc) 1/4", 1/2" Flanged: 1/2", 3/4", 1" ANSI/JPI 150 to 2500 JIS10K to 63K Threaded: Rc, NPT Flanged: RF, RJ

Stainless steel

Solid Stellite

-30 to 400°C Class IV

0.001 to 0.63

20:1 to 30:1 • Needle type plug Addition process of chemical and perfume

SS2-8110-0600

Single seated

Cage valves, Double seated Low-noise valves

Rotary

Angle valves

3-way valves

resistant or resistant valves

Motorized

Actuators

Accessories

purpose valves

6 Industrial Control Valves

Cage valves, Double seated valves,

Low-noise

valves

Rotary

Angle

valves

3-way

valves

resistant or resistant valves

Motorized

Actuators

Accessories

valves



### AC2

6" to 24" ANSI/JPI 150 to 600 JIS10K to 30K Flanged : RF, RJ Welded : BW Carbon steel

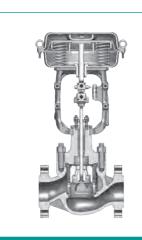
A351CF8M, SCS14A A351CF8M, SCS14A with Stellite

Class V

179 to 5920 50.1

 Flexible metal seat structure high differential pressure process which needed low leakage performance.

SS2-AC2001-0100



### Pressure-balanced cage type control valve

### **ACP**

1-1/2" to 8" ANSI/JPI 150 to 600 JIS10K to 40K Flanged : RF, FF, RJ Welded: SW, BW Carbon steel

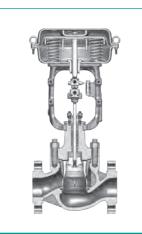
A351CF8M A351CF8M with Stellite SCS24

> -196 to 400°C Class IV

10 to 795

50:1 (option 75:1) General-use process for petrochemical and chemical plant

SS2-ACP100-0100



Cage valves, Double seated valves, Low-noise valves

### Pressure-balanced cage type control valve

### **HCB**

1-1/2" to 8" ANSI/JPI 150 to 600 JIS10K to 40K Flanged : RF, FF, RJ Welded : SW, BW Carbon steel

SCS24 SCS14A with Stellite or Atomlov treatmen SCS16A, SCS16A with Stellite

> -196 to 566°C Class II, III, VI

> > 11 to 850

50:1 (option 75:1) General-use process for petrochemical and chemical plant

Bellows type bonnet, steam jacket SS2-8113-1100



### Cage type double seated control valve

### **VDC**

5", 10", 12" ANSI/JPI 150 to 600 JIS10K to 40K

Flanged : RF, FF, RJ Carbon steel

Stainless steel

SCS24 SCS14A with Stellite or Atomloy treatment SCS16A, SCS16A with Stellite

> -195 to 600°C Class II, VI

99 to 1440 30:1 (option 50:1) General-use process for petrochemical

and chemical plant Bellows type bonnet, steam jacket SS2-8110-1100



### Top & bottom guided double seat control valve

### ADVB/ADVM

6" to 12" ADVB: ANSI/JPI 150, JIS10K ADVM: ANSI/JPI 300, JIS16K to 30K

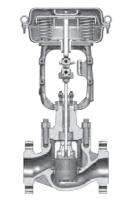
Flanged : RF Carbon steel Stainless steel

316SS, 316SS with Stellite 630SS

> -45 to 400°C Class IV 215 to 1580

50:1 • Top & bottom guided double seat structure Hydrocarbon process for refinery and petrochmical plant

SS2-ADV100-0100



### Low-noise cage type control valve

### **ACN**

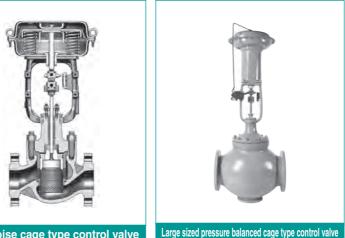
1-1/2" to 8" ANSI/JPI 150 to 600 JIS10K to 40K Flanged: RF, FF, RJ Welded : SW, BW Carbon steel Stainless steel

A351CF8M, A351CF8M with Stellite

-196 to 400°C Class IV 11 to 580

50:1 Multi-hole type 2-stage cage guided with seal ring . Noise reduction of compressed fluid (ex. steam, air, gases etc.)

SS2-ACN100-0100



### Low-noise cage type control valve

### HCN

1-1/2" to 8" ANSI/JPI 150 to 600 JIS10K to 40K Flanged : RF, FF, RJ Welded: SW, BW Carbon steel

SCS14A, SCS14A with Stellite, SCS14A with Atomloy treatment

> -196 to 566°C Class III

> > 11 to 580 25:1

Multi-hole type 2-stage cage guided

 Noise reduction of compressed fluid (ex. steam, air, ga-SS2-8113-1110

50:1 Seal ring structure



### Pressure balanced high-pressure cage type control valves

### **ALVB/ALVM**

14" to 20" ALVB: ANSI/JPI 150, JIS10K ALVM: ANSI/JPI 300, JIS20K Flanged: RF

Carbon steel

SCS24

-5 to 200°C Class IV

1440 to 3970

General-use process for petrochemical and chemical plant

SS2-ALV100-0100



### **HPC**

1-1/2" to 8" ANSI/JPI 900 to 2500 JIS63K Flanged : RF, RJ Welded : SW, BW

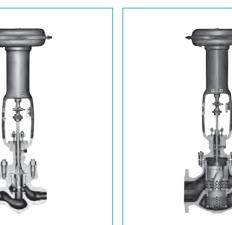
Carbon steel

SCS24 304SS with Atomloy treatment 304SS with Stellite and Atomloy treatmen

-5 to 566°C Class III Class 1500 or less : 12 to 700

Class 2500 : 12 to 520 50:1 (option 75:1) High temperature and high pressure steam of boiler and turbine unit for power plant and private power generation

SS2-8113-1200



### High pressure service cage type double seated control vavles

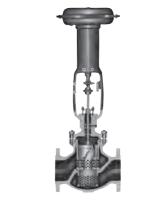
### **VDC** 4", 5", 6" ANSI/JPI 900 to 2500

JIS63K Flanged: RF, RJ Welded: SW, BW Carbon steel SCS24 SCS14A, SCS14A with Stellite, SCS14A with Atomloy treatment SCS16A, SCS16A with Stellite

0 to 520°C Class II, III Class 1500 or less : 56 to 315

Class 2500 : 39 to 210 30:1 (option 50:1) High temperature and high pressure steam of boiler and turbine unit for power plant and private power generation

SS2-8110-0400



### Low-noise cage type double seated control valve

### **VDN**

10", 12" ANSI/JPI 150 to 600 JIS10K to 40K Flanged: RF, FF, RJ

> Carbon steel Stainless steel

> > -195 to 600°C

600 to 860

25:1 Multi-hole type 3-stage cage guided Noise reduction of compressed fluid (ex. steam, air, gases etc.)

SS2-8110-1300



### ligh pressure service low-noise cage type double seated control valve

### **VDN** 1-1/2" to 12"

ANSI/JPI 900 to 2500 JIS63K Flanged : RF, FF, RJ Welded : SW, BW

Carbon steel Stainless steel

0 to 520°C

Class 1500 or less : 14 to 820 Class 2500 : 10 to 580

30:1 Multi-hole type 3-stage cage guided . Noise reduction of compressed fluid (ex. steam, air, gases etc.

SS2-8110-1400

**Structural** drawing

Valve type Model No.



8 Industrial Control Valves

Venturi throat type anglecontrol valve

HAV

1" to 6"

JIS10K to 40K

Flanged: RF, FF, RJ

Carbon steel

316SS, 316SS with Stellite

316LSS, 316LSS with Stellite

-50 to 425°C

1 to 395

50:1 (option 75:1)

Slurry, high viscosity, flushing service

Bellows type bonnet, steam jacket

SS2-8113-2600

High pressure service angle control valve

HAH

3/4" to 1-1/2"

ANSI 2500

Flanged : RF, RJ

Forged carbon steel Stainless steel

440CSS

316SS with Stellite

0 to 425°C

Class IV

0.33 to 9

30:1 (option 50:1)

Abrasion service of high temperature

and high pressure

SS2-HAH100-0100

Labyrinth trim angle control valve

HAL

3/4" to 1-1/2"

ANSI/JPI 900 to 2500

Flanged : RF, RJ

Forged carbon steel Stainless steel

440CSS

0 to 425°C

Class IV

0.33 to 9

30:1 (option 50:1)

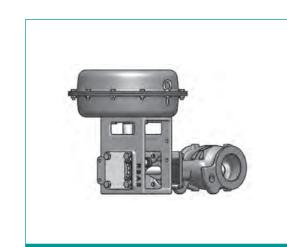
Labyrinth trim structure

Bellows type bonnet, steam jacket

SS2-8110-1100

valves

valves



### Eccentric rotary control valve (FloWing™)

### VFR

re rating 1" to 4"

ANSI/JPI 150, 300, 600"

JIS10K, 20K, 30K\*, 40K\*

**Structural** 

drawing

Valve type

Model No.

Structural drawing

Valve type

Model No.

Flanged : RF Carbon steel Stainless steel \* Size 2 in. or less

SCS24 SCS14, SCS14 with Stellite

> -60 to 350°C Class IV

5.6 to 250

100:1
• High rangeability

powder or high viscosity service

Multi-hole plate for anti-cavitation and low noise SS2-VFR100-0200



Rotary valves/Angle valves/3-way valves

### Eccentric rotary control valve (FloWing™)

### **VFR**

6\* to 12\* ANSI/JPI 150, 300 JIS10K, 20K Wafer Flanged : RF Carbon steel

SCS24 SCS14, SCS14 with Stellite

> -60 to 350°C Class IV

240 to 1900

High rangeability
 Powder or high viscosity service
 High differential pressure service

SS2-VFR100-0100

Multi-hole plate for anti-cavitation and low noise



### Ceramic trim angle control valve

### HAF

1" to 4" ANSI/JPI 150 to 600 JIS10K to 40K

Flanged : RF, FF, RJ

Carbon steel

Stainless steel

Cyaron ceraic, silicon carbide ceramic

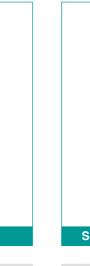
0 to 425°C Class IV

4 to 175

30:1

Hard slurry service

SS2-8113-2620



### Super-high pressue angle control valve

### VAU

Please contact us

Max. pressure : 343MPa

Please contact us

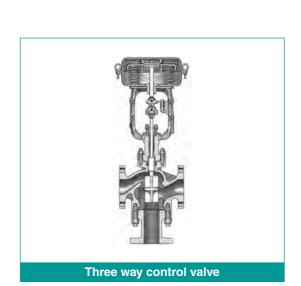
Stainless steel

Solid Stellite

0 to 100°C
Class IV
0.003 to 0.006 (ON-OFF 0.062)

—
Super high pressure and micro-flow control in Low density polyethylene plant

—
SS2-8110-2800



### **AMT**

1" to 6" ANSI/JPI 150, 300 JIS10K to 30K

Flanged : RF, FF

Carbon steel
Stainless steel

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

-17 to 350°C Class IV

6.3 to 360

30:1

Mixing of fluid
 Diverting of low pressure fluid

Diverting of low pressure fluid

SS2-AMT100-0100



### Three way control valve for diverting service

### HDT 3" to 6" ANSI/JPI 150, 300

JIS10K, 20K Flanged: RF, FF

> Carbon steel Stainless steel

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

> 0 to 425°C Class IV 70 to 270

30:1 Diverting of fluid

— SS2-HDT100-0100

Industrial Control Valves 11

orrosion-resistant type small size ceramic control valve

**HMC** 

Max. pressure : 1960kPa

Wafer

Body: 99% Alminum ceramic, silicon carbide ceramic

Casing: ductile cast iron, stainless steel

99% Alminum ceramic, silicon carbide ceramic

0 to 200°C

Less than 2.0% of maximum valve capacity

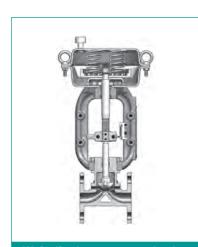
1 to 4

30.1

Hard slurry service as flue-gas desulfurization, drainage

dissolving pulp slurry, and alumina refining unit

SS2-8193-0310



**Structural** 

drawing

Valve type

Model No.

**Structural** drawing

Valve type Model No.

### Weir diaphragm control valve

### **VDD** 1/2" to 4"

JIS10K

Flanged : RF (equivalent), FF Body: FC200, lining: hard natural rubber, chloroprene Body: FCD-S, lining: PFA, ETFE Body: SCS13

Diaphragm: natural rubber, chloroprene PTFE, EPDM

> -5 to 140°C Class VI 3 to 295

20:1

· corrosion service as acid and alkaline Slurry service

SS2-8110-0530



### Rigid PVC/polypropylene body single seated control valve Corrosion-resistant PTFE body control valve

### **VNP**

3/4" to 4" JIS5K to 10K

Flanged : FF (RF) Rigid PVC, polypropylene

PTFE, glass-reinforced PTFE, rigid PVC,

polypropylene 0 to 80°C

Class IV 1 to 35

20:1 to 30:1

corrosion service as acid and alkaline

SS2-8190-0100



Corrosion-resistant or abrasion-resistant valves/Motorized valves

### HIT

3/4" to 2" JIS10K Stud bolts type

Body : PTFE Casing: 304SS

PTFE

0 to 140°C Class IV

1 to 35 20:1 to 30:1

corrosion service as acid and alkaline

SS2-8110-1100



### Electric top guided single seated control valve

### AGVB/AGVM

1/2" to 2" AGVB : ANSI/JPI 150, JIS10K AGVM: ANSI/JPI 300, JIS16K to 30K Flanged : RF, FF Welded : SW, BW

Carbon steel Stainless steel

440CSS 316LSS, 316LSS with Stellite

> -196 to 400°C Class IV, VI 0.1 to 50

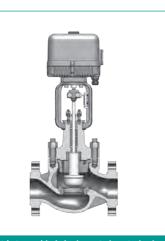
20:1 to 50:1 (option 75:1) flow control of saturated vapor,

cold and hot water, etc. Low leakage gland packing system SS2-AGV200-0300

Electric small-port single seated control valve HLS 1/2" to 1" ANSI/JPI 150 to 600 JIS10K to 30K Flanged: RF, FF, RJ Welded: SW, BW Carbon steel

Stainless steel 440CSS 316SS, 316SS with Stellite 316LSS, 316LSS with Stellite -196 to 566°C Class IV, VI 0.01 to 14 20:1 to 50:1 (option 75:1)

flow control of saturated vapor, cold and hot water, etc. Explosion-proof motor (Please contact us.) SS2-8114-0200



### Electric top guided single seated control valve

### HTS

1-1/2" to 8" ANSI/JPI 150 to 600 JIS10K to 30K Flanged: RF, FF, RJ Welded : SW, BW Carbon steel Stainless steel 440CSS 316SS, 316SS with Stellite 316LSS, 316LSS with Stellite -196 to 566°C Class IV, VI 10 to 700 50:1 (option 75:1)

flow control of saturated vapor, cold and hot water, etc.

Explosion-proof motor (Please contact us.) SS2-8114-0300



### Electric pressure-balanced cage type control Valve

### **HCB**

1-1/2" to 8" ANSI/JPI 150 to 600 JIS10K to 40K Flanged: RF, FF, RJ Welded: SW, BW Carbon steel Stainless steel

SCS24 SCS14A, SCS14A with Stellite, SCS14A with Atomloy treatment

-196 to 566°C Class II, III, VI 11 to 850

50:1 (option 75:1) flow control of saturated vapor cold and hot water, etc.

Explosion-proof motor (Please contact us.)

SS2-8114-1100



HIC

1" to 3"

Max. pressure : 1960kPa

Wafer

Casing: ductile cast iron, stainless steel

99% Alminum ceramic, silicon carbide ceramic

0 to 200°C

13 to 120

30.1

Hard slurry service as flue-gas desulfurization, drainage,

dissolving pulp slurry, and alumina refining unit

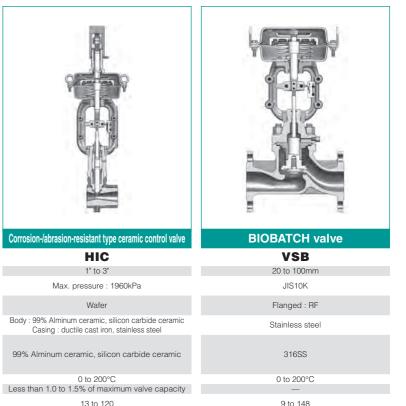
SS2-8193-0300

1" to 12"	
ANSI/JPI 150, 300, 600*	
JIS10K, 20K, 30K*, 40K	
Wafer	
Flanged : RF	
Carbon steel	
Stainless steel	

-60 to 350°C Class IV 5.6 to 250

 High rangeability · powder or high viscosity service

SS2-8130-0110

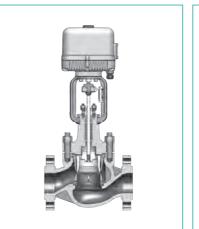


20:1 to 30:1

· Clean process as pharmaceuticals and semiconductor

Batch control of fermentation process

SS2-8190-0500



### Electric eccentric rotary control valve (FloWing™)

### **VFR**

SCS24 SCS14A with Stellite 100:1

Multi-hole plate for anti-cavitation and low noise

12 Industrial Control Valves



### Multispring diaphragm motor

### **HA2 to HA4**

Direct and reverse action 25 to 75mm
Side mounted handwheel, top mounted handwheel 140 to 390kPa {1.4 to 4.0kgf/cm²} No.SS2-8213-0500

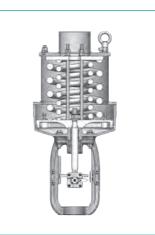
Single actionCompact, lightweight

### Multispring diaphragm motor

### **PSA1 to PSA4**

Direct and reverse action 14.3 to 38mm Side mounted handwheel, top mounted handwheel 140 to 390kPa {1.4 to 4.0kgf/cm²} No.SS2-PSA200-0100

Single actionCompact, lightweight



### Spring piston cylinder

### **PSA6R**

Reverse action 20 to 100mm Side mounted handwheel 260 to 500kPa {2.6 to 5kgf/cm²} No.SS2-PSA100-0100

Single actionCompact, high power

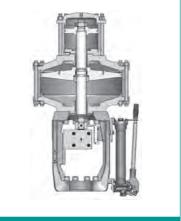


### High power spring cylinder

### PSA7R

Reverse action 50 to 100mm Side mounted handwheel No.SS2-PSA100-0100

Single action
 High power, low supply pressure



### Springless piston cylinder

### DAP

Direct and reverse action Hydraulic manual handle No.SS2-DAP100-0100

 Double action · Compact, high power



Spring diaphragm motor

### VA5

Direct and reverse action 100mm Side mounted handwheel, top mounted handwheel 140 to 270kPa [1.4 to 2.8kgf/cm²] No.SS2-8210-0100

Single action

valves

Angle

Single seated

Cage valves, Double seated

Low-noise

valves

Rotary

3-way valves

Corrosionresistant or resistant valves

Motorized

**Actuators** 

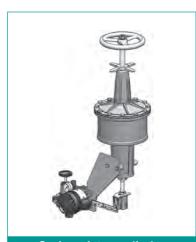
Accessories

Special purpose

valves

### Structural drawing

### Valve type Model No.



### Spring piston cylinder

### GOM83S to GOM124S

Direct action 75 to 100mm With manual handwhe 140kPa {1.4kgf/cm²} No.SS2-8210-0200

Single action

Compact, long stroke



### Springless piston cylinder

### GOM64LM to 154LM

Direct and reverse action 50, 100mm With or without handwheel 200kPa {2.0kgf/cm²} No.SS2-8210-0200

Double action

• Compact, long stroke



### Multispring lever diaphragm motor

### **HL2 to HL4**

Direct and reverse action

140 to 390kPa {1.4 to 4.0kgf/cm²} No.SS2-8213-0510

Single action

• Compact, lightweight



### Springless piston cylinder

### GOM44L to GOM1510L

Direct and reverse action 100 to 250mm With or without handwheel 200kPa {2.0kgf/cm²} No.SS2-8210-0200

Double action

• Compact, long stroke

14 Industrial Control Valves Industrial Control Valves 15

Accessories

Cage valves, Double seated

Low-noise valves

Rotary

valves

**Picture** 

Positioner type Model No.

**Positioner type** 

Model No.



### **Smart ESD Device 700 Series**

### AVP77\*/78\*/79\*

4 to 20mADC, 0 to 20mADC, 0/24VDC

10 to 100mm (Linear), to 90° (Rotary) 140 to 700kPa {1.4 to 7.0 kgf/cm²} -40 to +80°C No.SS2-AVP772-0100

- Single action/ Double action
- Partial Stroke Test (PST)
- Local User Interface (LUI) : Liquid crystal display
- Certified for SIL (Safety Integrity Level) 3 Capable



Positioner/others

### Smart Valve Positioner 700 Series

### AVP701/702/703

4 to 20mADC, FOUNDATION Fieldbus

10 to 100mm (Linear), to 90° (Rotary) 140 to 700kPa {1.4 to 7.0kgf/cm²} -40 to +80°C No.SS2-AVP702-0100/SS2-AVP703-0100

- Single action/Double action
- Valve signature and Stop Response Test
- Valve position transmitter function
   Communication : HART®7, FOUNDATION Fieldbus



### AVP300/301/302

4 to 20mADC, split range setting available

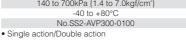
140 to 700kPa {1.4 to 7.0kgf/cm²}

- Easy zero/span adjustments, wide applicability



10 to 100mm (Linear), to 90° (Rotary)

- Compact, high performance, multifunctional Valve position transmitter function



• For use with high-pressure actuators

Double action, pneumatic positioner

VPP02/03

20 to 98, 20 to 60, 60 to 98kPa

{0.2 to 1.0, 0.2 to 0.6, 0.6 to 1.0kgf/cm²}

14 to 100mm

-30 to +80°C No.SS2-8310-0300

200 to 690kPa {2.0 to 7.0kgf/cm²}



### Smart Valve positioner for rotary valve

### SVX

4 to 20mADC, split range setting available to 90° (Rotary) 140 to 700kPa -40 to +80°C No.SS2-SVX100-0100

- Single action/Double action Communication : HART®
- · Easy zero/span adjustments



### **Pneumatic positioner**

### **HTP**

20 to 98, 20 to 60, 60 to 98kPa {0.2 to 1.0, 0.2 to 0.6, 0.6 to 1.0kgf/cm²} 140 to 390kPa {1.4 to 4.0kgf/cm²}

Single action

Angle

-25 to +60°C No.SS2-8310-0200

Multipurpose

3-way valves

> resistant or resistant valves

Motorized

Actuators

Accessories

valves



### **Smart Valve Positioner 200 Series** AVP200/201/202

4 to 20mADC, split range setting available

10 to 100mm (Linear), to 90° (Rotary) 140 to 700kPa {1.4 to 7.0kgf/cm²} -40 to +80°C No.SS2-AVP200-0100

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



### Pneumatic positioner

### **VPR**

20 to 98, 20 to 60, 60 to 98kPa {0.2 to 1.0, 0.2 to 0.6, 0.6 to 1.0kgf/cm²} 340 to 490kPa {3.5 to 5.0kgf/cm²}

-20 to +70°C No.SS2-8310-0500

- · Single action
- For small actuators on FloWing valves



### Pneumatic positioner

### VPP08

20 to 98, 20 to 60, 60 to 98kPa {0.2 to 1.0, 0.2 to 0.6, 0.6 to 1.0kgf/cm²} 14 to 100mm 350 to 690kPa {3.6 to 7.0kgf/cm²} -30 to +80°C

- No.SS2-8310-0600 Single action
- . For use with high-pressure actuators



### Pneumatic positioner

### **VPE**

20 to 98, 20 to 60, 60 to 98kPa {0.2 to 1.0, 0.2 to 0.6, 0.6 to 1.0kgf/cm²} 140 to 390kPa {1.4 to 4.0kgf/cm²} -20 to +70°C

- No.SS2-8310-0400 Single action
- Multipurpose for small actuators



### Double action, pneumatic positioner

### GOP

20 to 98, 20 to 60, 60 to 98kPa {0.2 to 1.0, 0.2 to 0.6, 0.6 to 1.0kgf/cm²} 200kPa {2.0kgf/cm²} 0 to +70°C No.SS2-8210-0200

• For G-O-Motors



### Air pressure regulator with filter

### KZ03-2/-3

Primary: Max.970kPa {9.9kgf/cm²} Secondary: 12 to 390kPa (0.12 to 4.0kgf/cm²) (KZ03-2) 12 to 690kPa (0.12 to 7.0kgf/cm²) (KZ03-3)

-30 to +80°C No.SS2-5190-0700

Supplies clean, dry air under constant pressure

16 Industrial Control Valves



### **Booster relay**

### **IL100**

Supply air pressure : Max.970kPa Inlet and outlet air pressure : Max.690kPa Inlet and outlet air pressure ratio: 1:1

No.SS2-CVG100-0100

• Increasing the operation speed of the pneumatic



VCL5001 : Center-neutral limit switch

with IEC Standards (de II CT6)
LX7000 : Vertical explosion-proof switches

VCX7000 : 2-point detection explosion-proof switches

-10 to 60°C VCL5001 : No.SS2-CVG900-0200

LX7000 : No.SS2-CVG900-0400 VCX7000 : No.SS2-CVG900-0300

· Verifying the fully opened or fully closed position of

Explosion-Proof Switches Compliant

Positioner/others

### **Limit switch**

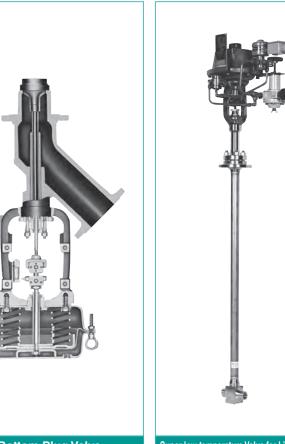
### VCL5001/LX7000/VCX7000





Cage Valve for LNG (20 in.) **VDC** 

**Bottom Plug Valve** 



Super low-temperature Valve for Liquid Hydrogen

Cage valves, Double seated Low-noise valves Rotary

Angle

valves

3-way valves

Corrosionresistant or abrasionresistant

valves

Motorized valves

Actuators

Accessories

purpose valves



### Air lock relay

### VF02

MAX.690kPa {7kgf/cm²}

20 to 200kPa {0.2 to 2.0kgf/cm² 120 to 290kPa {1.2 to 3.0kgf/cm²} No.SS2-8310-0800

• In case of air pressure failures, relay maintains at

20 to 98kPa {0.2 to 1.0kgf/cm²} [MAX.250kPa {2.6kgf/cm²}] 40 to 80kPa {0.4 to 0.8kgf/cm²} -30 to +80°C No.SS2-8310-0800

Pneumatic relay (with manual reset)

VF03

490kPa {5kgf/cm²} or less

- Combines compact 3-way on/off valve and diaphragm motor with reset mechanism the pre-failure level the air pressure to the actuator
  - For specialized on/off switching with both automatic and manual operations



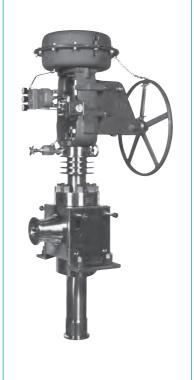
### **Pneumatic relay**

### VF04

490kPa {5kgf/cm²} or less

20 to 98kPa {0.2 to 1.0kgf/cm²} [MAX.250kPa {2.6kgf/cm²} 40 to 80kPa {0.4 to 0.8kgf/cm²} -30 to +80°C No.SS2-8310-0800

 Combines 3-way on/off valve used to switch signal air lines based on balance between supply pressure on upper diaphragm and force of preset



**Let-down Valve for Coal Liquefaction** 

VAZ

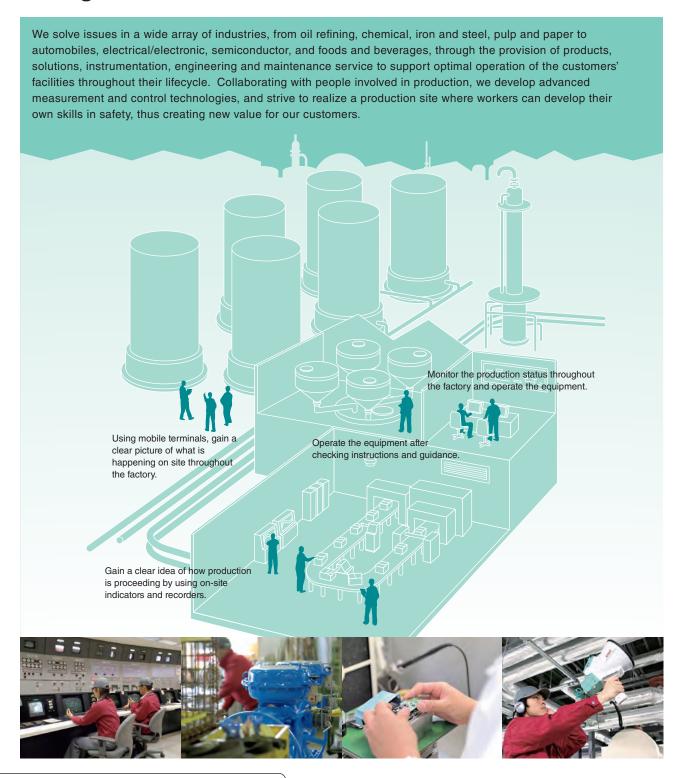


18 Industrial Control Valves

Valve type

Model No.

# We create value together with customers at their site through $human\text{-}centered\ automation}$ .



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### **Azbil Corporation**

Advanced Automation Company

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

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