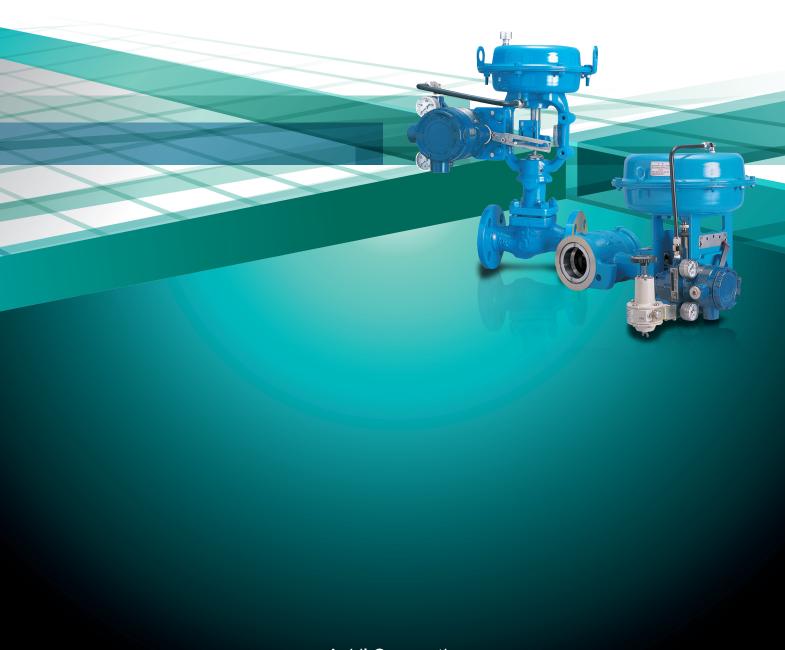


Industrial Control Valves

Selection Guide



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.







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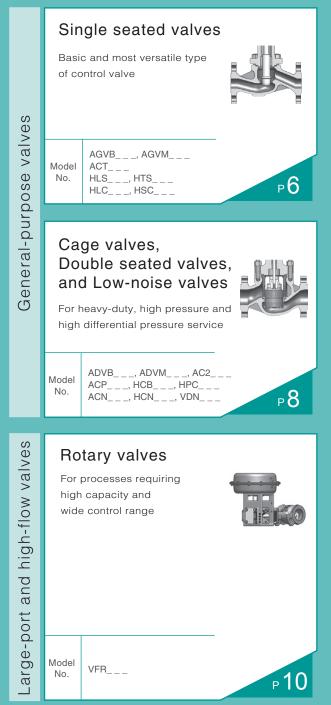


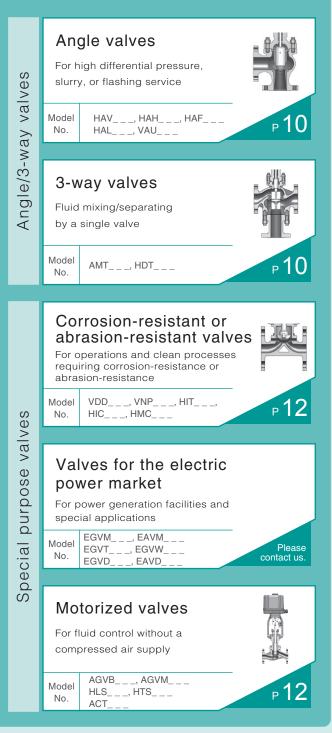
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Steel mills

Selection of Control Valve

Select the appropriate valve.





Cage valves, Double seated valves. Low-noise valves

Rotary valves

Angle valves

3-way valves

Corrosionresistant or abrasionresistant valves

Motorized valves

Select the actuator type.

Diaphragm actuators

General-purpose, most frequently used type of actuator

Model No

HA_ _, HL_ PSA_ _, VA5_

Cylinder actuators

For high-pressure, large-port valves

Model

PSA6R, PSA7R. DAP560, DAP1000, DAP1500 GOM

Select the accessories.

Positioners

Selected according to the operating conditions, including input signal, actuator, and atmospheres (waterproof, explosion-proof).

Model

AVP___, HTP-VPE04-_, VPE05-VPP02-_, VPP03-_, VPP08-_ VPR02-_

₽16

Air lock valve, pilot valve

If the air supply malfunctions these devices secure (lock) the valve position and control pneumatic circuit switchover.

Model Nο

VF02/03/04 or OEM products

Regulators with filter

Using KZ03 as the basic model number, select low/high pressure type, connection type, etc.

Model No

KZ03-_ or OEM products

Solenoid valves

If needed, this device controls switchover of the pneumatic circuit (signals or supply pressure) with electric signals (on-off).

Model Nο

OEM products

Volume booster

Used to make the pneumatic actuator operate more quickly or to reduce the delay of pneumatic signals.

Model No

OEM products

₽18

Limit switches

Added to the actuator in order to produce electric signals corresponding to the valve position (open/closed).

Model No.

VCL5000 VCX7001,1LX7001 VCX8001,1LX8001

Valve type Model No.

Size

Pressure ratino

End connection

Body material

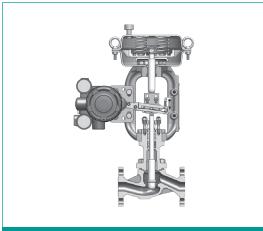
Trim materia

Leakage performance

Cv range

Range ability

cification sheet No.



Top guided single seated control valve

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
Stainless steel

440CSS 316SS, 316SS with CoCr-A 316LSS, 316LSS with CoCr-A

> -196 to 400°C Class IV, IV-S1, VI

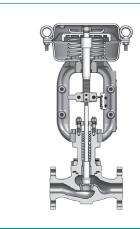
> > 0.1 to 200

20:1 to 50:1 (option 75:1)

General-use process for petrochemical and chemical plant

Low emission gland packing/ SIL3 capable

SS2-AGV200-0001



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
Stainless steel

440CSS 316SS, 316SS with CoCr-A 316LSS, 316LSS with CoCr-A 329J1SS

-196 to 566°C 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
Low emission gland packing/ SIL3 capable
SS2-8113-0200/0210

Structural drawing

Valve type Model No.

Size

Pressure rating

End connection

Trim material

Leakage performance

Cv range

Range ability

Application

Optior

pecification sheet 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

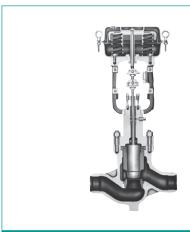
440CSS 316SS, 316SS with CoCr-A 316LSS, 316LSS with CoCr-A

-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 CoCr-A

-5 to 566°C

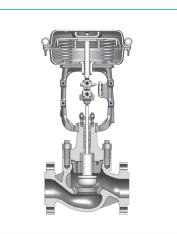
Class IV class 1500 or less: 0.25 to 110 class 2500: 0.25 to 75 50:1 (option 75:1)

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

SIL3 Capable

SS2-8113-0400

Single seated valves



Top guided single seated control valve

HTS___/HSC___

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

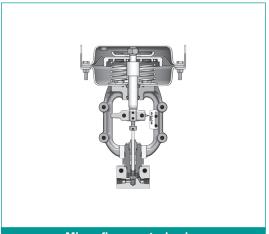
440CSS 316SS, 316SS with CoCr-A 316LSS, 316LSS with CoCr-A 329J1SS -196 to 566°C

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 Low emission gland packing/ SIL3 capable SS2-8113-0300/0310



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 CoCr-A

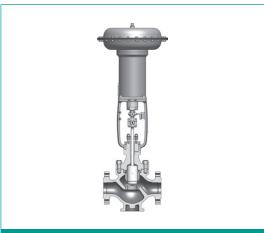
-30 to 400°C Class IV

0.001 to 0.63

20:1 to 30:1

Needle type plug
 Addition process of chemical and perfume

— SS2-8110-0600



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 CoCr-A

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

Single seated

Cage valves, Double seated valves, Low-noise valves

Rotary

Angle valves

3-way valves

Corrosionresistant or abrasionresistant valves

Motorized

Actuators

Accessories

Special purpose valves

Valve type Model No.

Size

Pressure rating

End connection

Body material

Trim material

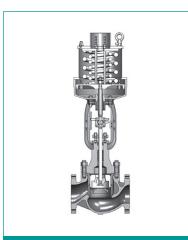
Leakage performance

Cv range

Range ability

Ontion

Specification sheet No.



Low leakage pressure balanced cage type control valves

AC2___

6" to 24"

ANSI/JPI 150 to 600

JIS10K to 30K

Flanged : RF, RJ

Welded : BW

Carbon steel

Stainless steel

A351CF8M, SCS14A A351CF8M, SCS14A with CoCr-A SCS24

Class V

179 to 5920

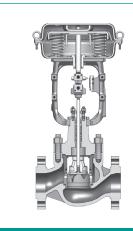
50:1

• Flexible metal seat structure

high differential pressure process which needed low leakage performance

Low emission gland packing/ SIL3 capable

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
Stainless steel

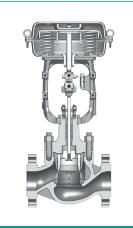
A351CF8M A351CF8M with CoCr-A SCS24

> -196 to 400°C Class IV

> > 10 to 795

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

Low emission gland packing/ SIL3 capable SS2-ACP110-0100



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 with CoCr-A or Atomloy treatment SCS16A, SCS16A with CoCr-A

-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 Low emission gland packing/ SIL3 capable SS2-8113-1100

Structural drawing

Valve type Model No.

Size

Pressure rating

End connection

Body materia

Trim material

Temperature range Leakage performance

Cv range

Range ability

Ontion

Specification sheet No



Cage type double seated control valve

VDC___

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

Flanged : RF, FF, RJ

Carbon steel

SCS24

SCS14A with Stellite or Atomloy treatment SCS16A, SCS16A with CoCr-A

> -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
SIL3 capable

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

316SS, 316SS with CoCr-A 630SS

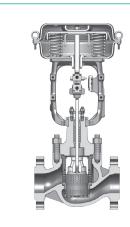
-45 to 400°C

Class IV 215 to 1580

50:1

Top & bottom guided double seat structure
 Hydrocarbon process for refinery and petrochmical plant

Low emission gland packing 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

A351CF8M, A351CF8M with CoCr-A

-196 to 400°C Class IV

11 to 580

50:1

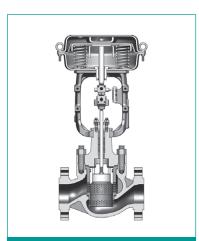
Multi-hole type 2-stage cage guided with seal ring
 Noise reduction of compressed fluid (ex. steam, air, gases etc.)

Low emission gland packing/ SIL3 capable SS2-ACN110-0100



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

Rotary



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 Stainless steel

SCS14A, SCS14A with CoCr-A 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, gases etc.

Low emission gland packing/ SIL3 capable

SS2-8113-1110



Large sized pressure balanced cage type control valve

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

50:1

Seal ring structure
 General-use process for petrochemical and chemical plant

SS2-ALV100-0100



Pressure balanced high-pressure cage type control valves

HPC___

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

Carbon steel

304SS with Atomloy treatment 304SS with Stellite and Atomloy treatment

-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

> SIL3 capable 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 Stainless steel

SCS24 SCS14A, SCS14A with CoCr-A SCS14A with Atomloy treatment SCS16A, SCS16A with CoCr-A

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

SIL3 capable

SS2-8110-1200



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



High 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.)

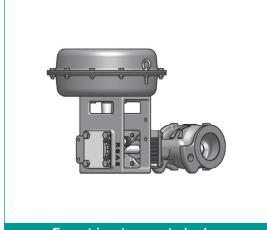
SIL3 capable

SS2-8110-1400

Valve type Model No.

age perforr

Range ability



Eccentric rotary control valve

VFR___

1" to 4" ANSI/JPI 150, 300, 600* JIS10K, 20K, 30K*, 40K* Wafer

Flanged : RF

* Size 2 in. or less

Carbon steel Stainless steel

SCS24

SCS14, SCS14 with CoCr-A

-60 to 350°C

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



Eccentric rotary control valve

VFR___

6" to 12" ANSI/JPI 150, 300 JIS10K, 20K Wafer

Flanged : RF

Carbon steel

Stainless steel

SCS24 SCS14, SCS14 with CoCr-A

-60 to 350°C

Class IV 240 to 1900

High rangeability
 Powder or high viscosity service

High differential pressure service

Multi-hole plate for anti-cavitation and low noise SS2-VFR100-0100

Structural drawing

Valve type Model No.



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



VAU___

Please contact us

Max. pressure: 343MPa

Please contact us

Stainless steel

Solid CoCr-A

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



Venturi throat type anglecontrol valve

HAV____

1" to 6" ANSI/JPI 150 to 600 JIS10K to 40K

Flanged : RF, FF, RJ

Carbon steel Stainless steel

440CSS 316SS, 316SS with CoCr-A 316LSS, 316LSS with CoCr-A

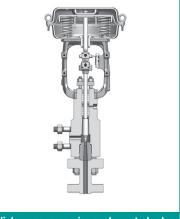
-50 to 425°C

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

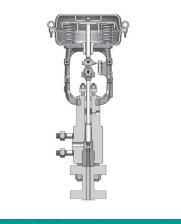
440CSS 316SS with CoCr-A

> 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

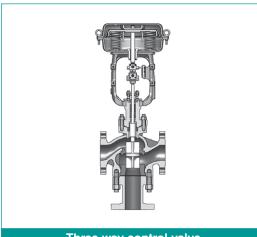
Class IV 0.33 to 9

30:1 (option 50:1)

Labyrinth trim structure

Bellows type bonnet, steam jacket

SS2-8110-1100



Three way control valve

AMT_ _ _

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

Flanged: RF, FF

Carbon steel Stainless steel

316SS, 316SS with CoCr-A 316LSS, 316LSS with CoCr-A

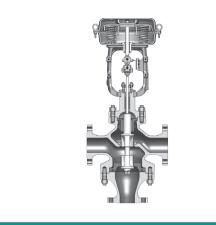
-17 to 350°C Class IV

6.3 to 360

30:1

 Mixing of 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 CoCr-A 316LSS, 316LSS with CoCr-A

0 to 425°C Class IV

70 to 270

30:1 Diverting of fluid

SS2-HDT110-0100

Single seated

Cage valves, Double seated Low-noise valves

Rotary valves

Angle valves

3-way valves

Corrosionresistant or resistant valves

Motorized

Actuators

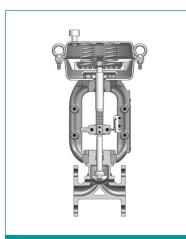
Accessories

Special purpose valves

Valve type Model No.

age perfo

Range ability



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

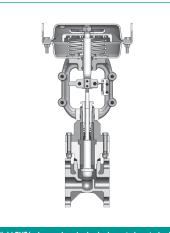
-5 to 140°C Class VI

3 to 295

20:1 · corrosion service as acid and alkaline

• Slurry service

SS2-8110-0530



Rigid PVC/polypropylene body single seated control valve

VNP___

3/4" to 4" ANSI/JPI 150 JIS5K to 10K

Flanged : FF (RF)

Rigid PVC, polypropylene

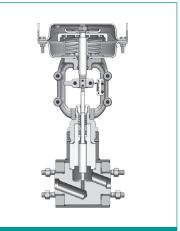
PTFE, glass-reinforced PTFE, rigid PVC, polypropylene

> 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 PTFE body control valve

HIT___

3/4" to 2" JIS10K

Stud bolts type

Body : PTFE Casing: 304SS

PTFE

0 to 140°C Class IV

1 to 35

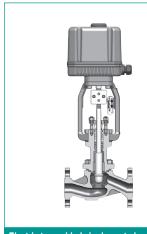
20:1 to 30:1

corrosion service as acid and alkaline

SS2-8193-0200

Structural drawing

Valve type Model No.



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

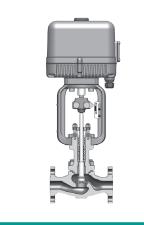
440CSS 316SS, 316SS with CoCr-A 316LSS, 316LSS with CoCr-A

-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

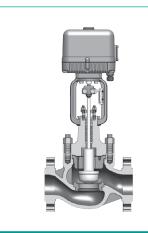
440CSS 316SS, 316SS with CoCr-A 316LSS, 316LSS with CoCr-A

329J1SS -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.

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

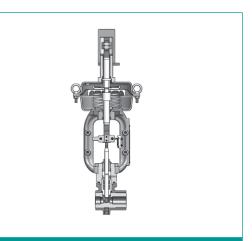
316SS, 316SS with CoCr-A 316LSS, 316LSS with CoCr-A 329J1SS

-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.

SS2-8114-0300



Corrosion-resistant type small size ceramic control valve

HMC___ 1"

Max. pressure : 1960kPa

Wafer

Body: 99% Alminum ceramic, silicon carbide ceramic Casing: ductile cast iron, stainless steel

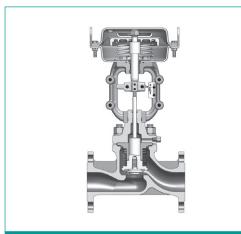
99% Alminum ceramic, silicon carbide ceramic

0 to 200°C

Less than 2.0% of maximum valve capacity

Hard slurry service as flue-gas desulfurization, drainage, dissolving pulp slurry, and alumina refining unit

SS2-8193-0310



BIOBATCH valve

VSB___ 20 to 100mm

JIS10K

Flanged : RF

Stainless steel

316SS

0 to 200°C

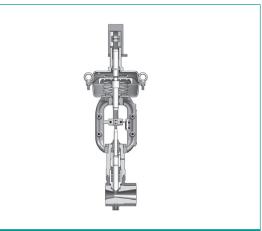
9 to 148

20:1 to 30:1

• Clean process as pharmaceuticals and semiconductor

· Batch control of fermentation process

SS2-8190-0500



Corrosion-/abrasion-resistant type ceramic control valve

HIC___

1" to 3"

Max. pressure: 1960kPa

Wafer

Body : 99% Alminum ceramic, silicon carbide ceramic Casing : ductile cast iron, stainless steel

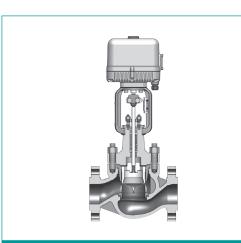
99% Alminum ceramic, silicon carbide ceramic

0 to 200°C

Less than 1.0 to 1.5% of maximum valve capacity

Hard slurry service as flue-gas desulfurization, drainage, dissolving pulp slurry, and alumina refining unit

SS2-8193-0300



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

SCS14A, SCS14A with CoCr-A 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.

SS2-8114-1100

Single seated

Cage valves, Double seated Low-noise valves

Rotary

Angle valves

3-way

Corrosionresistant or abrasionresistant valves

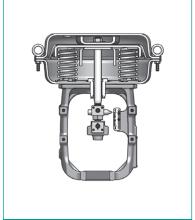
Motorized valves

Actuators

Accessories

Special purpose valves

Valve type Model No.



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 action
- Compact, lightweight



Multispring diaphragm motor

PSA2_ 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 action
- Compact, lightweight



Spring piston cylinder

PSA6R

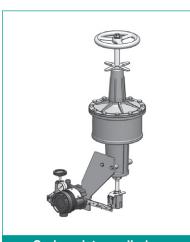
No.SS2-PSA100-0100

Reverse action 20 to 100mm Side mounted handwheel 260 to 500kPa {2.6 to 5kgf/cm²}

- Single action
- Compact, high power

Structural drawing

Valve type Model No.

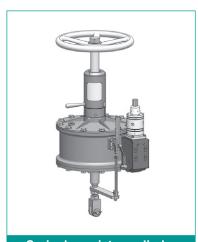


Spring piston cylinder

GOM83S to GOM124S

Direct action 75 to 100mm With manual handwheel 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



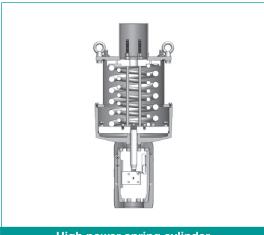
Multispring lever diaphragm motor

HL2_ to HL4_

Direct and reverse action

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

- Single action
- Compact, lightweight



High power spring cylinder

PSA7R

Reverse action 50 to 100mm Side mounted handwheel 400kPa {4kgf/cm²} No.SS2-PSA100-0100

Single actionHigh power, low supply pressure



Springless piston cylinder

DAP560, DAP1000, DAP1500

Direct and reverse action 50 to 100mm Hydraulic manual handle 200 to 700kPa {2 to 7kgf/cm²} No.SS2-DAP100-0100

• Double action

• Compact, high power

Single seated

Cage valves, Double seated valves, Low-noise valves

Rotary

Angle valves

3-way valves

Corrosionresistant or abrasionresistant valves

Motorized

Actuators

Accessories

Special purpose valves



VA5D, VA5R

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



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



Positioner type Model No.

Stroke range



Smart ESD Device 700 Series

AVP77_ / AVP78_ / AVP79_

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 and push buttons
- Certified for SIL (Safety Integrity Level) 3 Capable



Smart Valve Positioner 700 Series

AVP70_

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



Smart Valve Positioner 300 Series

AVP30_

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-AVP300-0100

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

Picture

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Smart Valve Positioner 200 Series

AVP20

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

VPR02-_ / VPR03-_

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

VPR08-

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} 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

Positioner/others



Double action, pneumatic positioner

VPP02-_ / VPP03-

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} 200 to 690kPa [2.0 to 7.0kgf/cm²] -30 to +80°C No.SS2-8310-0300

• For use with high-pressure actuators



Smart Valve positioner for rotary valve

SVX10_

4 to 20mADC, split range setting available

to 90° (Rotary)
140 to 700kPa {1.4 to 7kgf/cm²}
-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] -25 to +60°C No.SS2-8310-0200

- Single action
- Multipurpose

3-way valves

Single seated

Cage valves, Double seated

Low-noise valves

Rotary

Angle

valves

Corrosionresistant or resistant valves

Motorized

Actuators

Accessories

purpose valves



Pneumatic positioner

VPE04-_ / VPE05-_

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} 6 to 25mm

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 None

For G-O-Motors



Air pressure regulator with filter

KZ03-

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

Valve type Model No.

Stroke range



Limit switch

VCL-5001-_ / VCX-7001-_ / 1LX7

001-___ / VCX-8001-__ / 1LX8001-_ _ VCL5001 : Center-neutral limit switch Explosion-Proof Switches Compliant with IEC Standards (de II CT6)

1LX7001-___: Vertical explosion-proof switches

VCX7001-___: 2-point detection explosion-proof switches

-10 to 60°C VCL5001 : No.SS2-CVG900-0200 1LX7001-___LX7000: No.SS2-CVG900-0400 VCX7001-___VCX7000: No.SS2-CVG900-0300

Verifying the fully opened or fully closed position of control valve



VF02

MAX.690kPa {7kgf/cm²}

20 to 200kPa {0.2 to 2.0kgf/cm²} 120 to 290kPa {1.2 to 3.0kgf/cm²} -30 to +80°C No.SS2-8310-0800

• In case of air pressure failures, relay maintains at the pre-failure level the air pressure to the actuator

Structural drawing

Valve type Model No.



Pneumatic relay (with manual reset)

VF03

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



VF04

490kPa {5kgf/cm²} or less

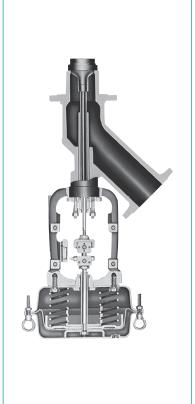
20 to 98kPa {0.2 to 1.0kgf/cm²} [MAX.250kPa {2.6kgf/cm²}] 40 to 80kPa {0.4 to 0.8kgf/cm²} -30 to +80°C

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 spring



Cage Valve for LNG (20 in.) Model VDC___



Bottom Plug Valve



Single seated

Cage valves, Double seated valves, Low-noise valves

Rotary valves

Angle valves

3-way valves

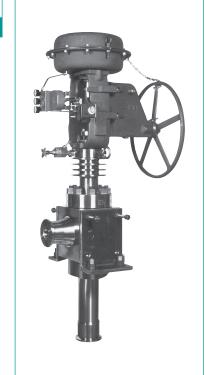
Corrosionresistant or abrasionresistant valves

Motorized

Actuators

Accessories

Special purpose valves

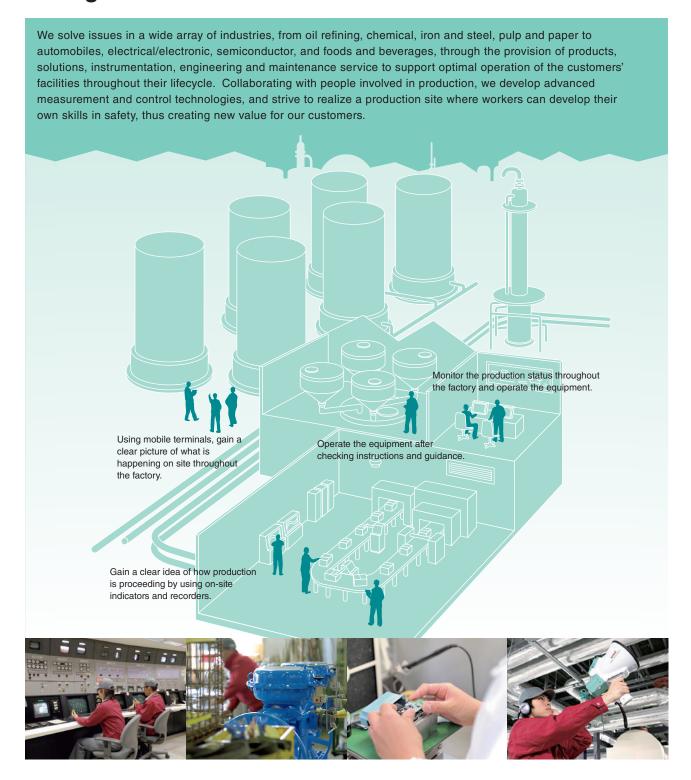


Let-down Valve for Coal Liquefaction

Model VAZ_ _ _

Minimum Flow Valve for Pumps Model EAVM___

We create value together with customers at their site through *human-centered automation*.



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