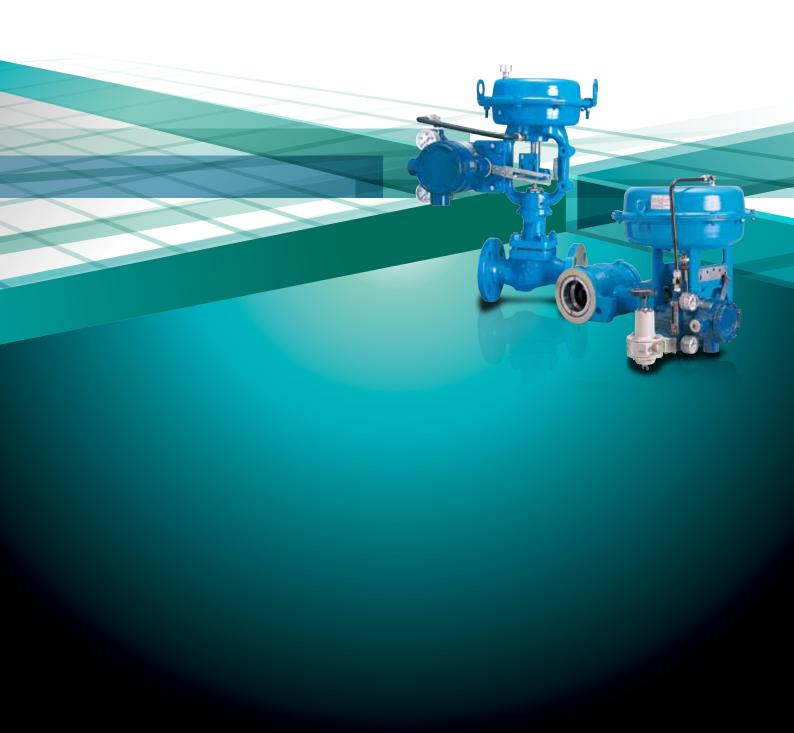


Industrial Control Valves

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.





Chemical plants



Oil refinerie

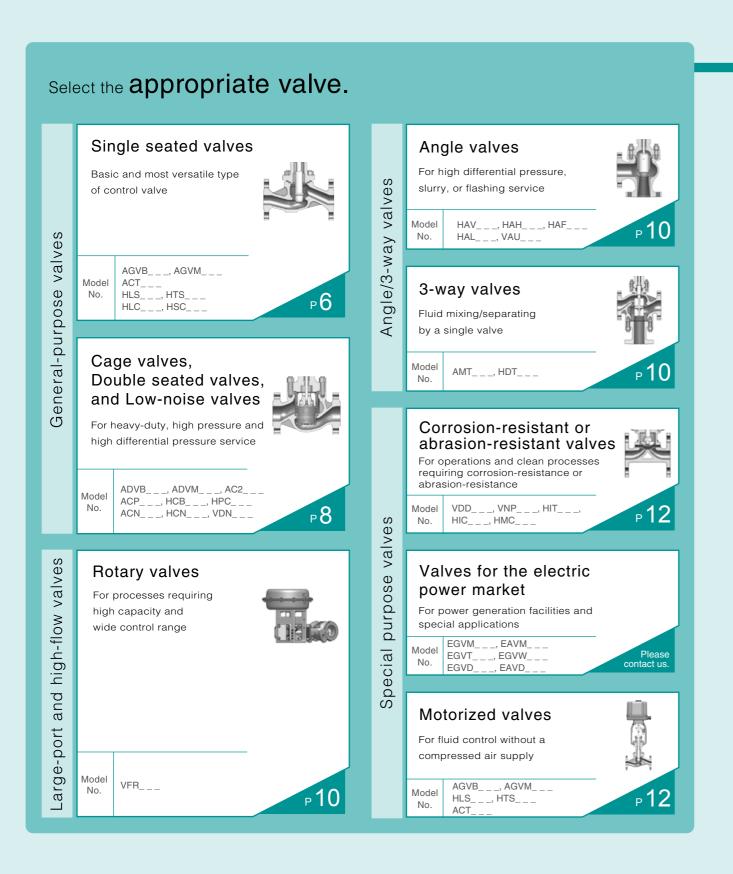


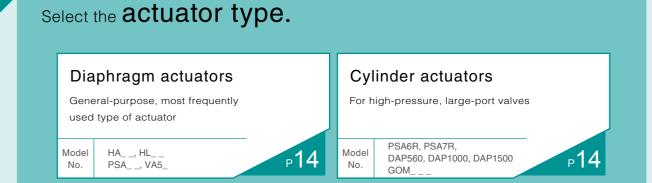
Steel mill



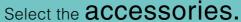


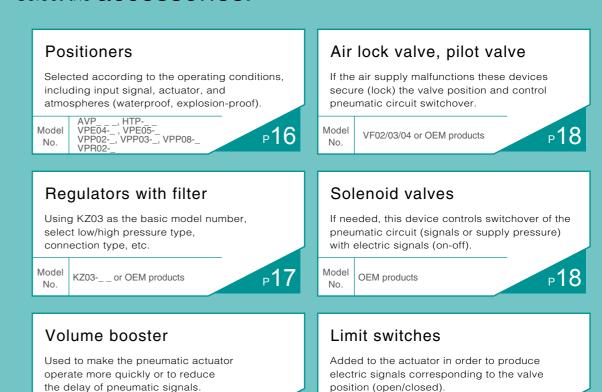
Selection of Control Valve











VCL5000

VCX7001,1LX7001

Cage valves, Double seated valves, Low-noise valves

Rotary valves

Angle

3-way

Corrosionresistant or abrasionresistant valves

Motorized valves

Actuators

Accessories

Special purpose valves

4 Industrial Control Valves 5

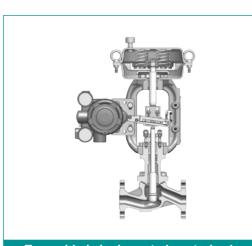
Model

OEM products

Structural drawing

Valve type

Model 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

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

> -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 emission gland packing/ SIL3 capable 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

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



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

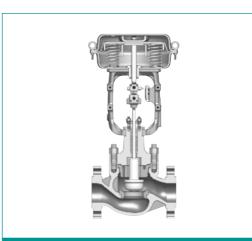
440CSS 316SS, 316SS with CoCr-A

-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



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



High-pressure service top guided single seated control valve

VST___ 4", 5", 6" JIS63K

440CSS

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

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

SS2-8110-0400

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

Carbon steel

SUS304 with CoCr-A

30:1

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

Single seated

Low-noise

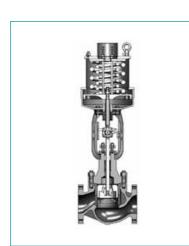
Angle

valves

3-way

resistant

Motorized



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

A351CF8M, SCS14A A351CF8M, SCS14A with CoCr-A

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

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



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

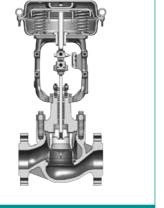
SCS24 SCS14A with CoCr-A or Atomlov treatment SCS16A, SCS16A with CoCr-A

> -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



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

SCS24 SCS14A, SCS14A with CoCr-A SCS14A with Atomloy treatmen

> -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



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 JIS63K Flanged : RF, RJ Welded : SW, BW

Carbon steel

304SS with Stellite and Atomloy treatme

Structural drawing

Valve type Model No.



Cage type double seated control valve

VDC___

5", 10", 12" ANSI/JPI 150 to 600 JIS10K to 40K Flanged : RF, FF, RJ

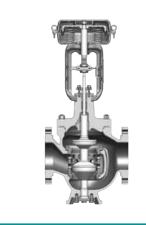
Carbon steel Stainless steel

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___

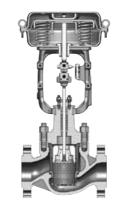
6" to 12" ADVB: ANSI/JPI 150, JIS10K ADVM: ANSI/JPI 300, JIS16K to 30K Flanged : RF

Carbon steel Stainless steel 316SS, 316SS with CoCr-A

> -45 to 400°C Class IV 215 to 1580

630SS

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

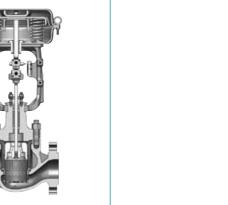
ACN___ 1-1/2" to 8" ANSI/JPI 150 to 600 JIS10K to 40K Flanged : RF, FF, RJ Welded : SW, BW Carbon steel

A351CF8M, A351CF8M with CoCr-A

Stainless steel

-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



High pressure service cage type double seated control vavles

4", 5", 6" ANSI/JPI 900 to 2500 Flanged : RF, RJ Welded : SW, BW Carbon steel Stainless steel SCS14A, SCS14A with CoCr-A SCS14A with Atomlov treatmen 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

VDC___

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

SS2-8110-1300

Noise reduction of compressed fluid (ex. steam, air, gases etc.)





igh 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

Cage valves, Double seated valves, Low-noise valves

Angle valves

3-way

Motorized

8 Industrial Control Valves

Single seated

Low-noise

Rotary valves

Angle

valves

3-way valves

resistant

Motorized



Eccentric rotary control valve

VFR___ 1" to 4"

ANSI/JPI 150, 300, 600° JIS10K, 20K, 30K*, 40K*

Flanged : RF

* Size 2 in. or less

Carbon steel

SCS24 SCS14, SCS14 with CoCr-A

> -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

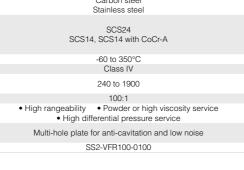
Eccentric rotary control valve

VFR___

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

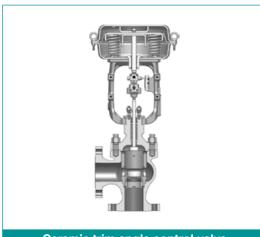
Flanged : RF

Carbon steel





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



Super-high pressue angle control valve

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



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

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



High pressure service angle control valve

HAH____ 3/4" to 1-1/2" ANSI 2500

Flanged : RF, RJ Forged carbon steel Stainless steel

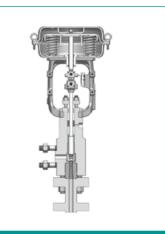
> 440CSS 316SS with CoCr-A

0 to 425°C Class IV

30:1 (option 50:1) Abrasion service of high temperature and high pressure

SS2-HAH100-0100

0.33 to 9



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



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

Three way control valve for diverting service

SS2-HDT110-0100

Structural drawing

Valve type Model No.



Weir diaphragm control valve

VDD___ 1/2" to 4" ANSI 150 JIS10K

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

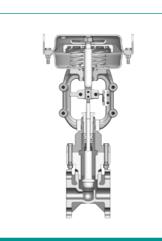
Body: SCS13 Diaphragm: natural rubber, chloroprene, PTFE, EPDM

> -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

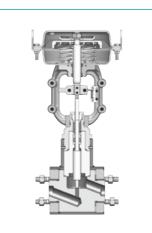
PTFE, glass-reinforced PTFE, rigid PVC,

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

Corrosion-resistant PTFE body control valve

HIT___ 3/4" to 2" ANSI 150 JIS10K Stud bolts type

> Body : PTFE Casing: 304SS

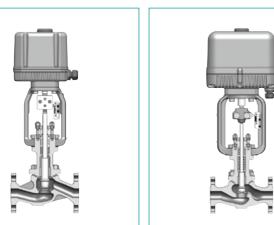
> > PTFE

0 to 140°C Class IV

1 to 35 20:1 to 30:1

corrosion service as acid and alkaline





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

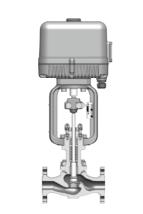
Carbon steel Stainless steel

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

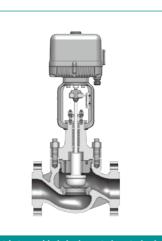
HLS___ 1/2" to 1" ANSI/JPI 150 to 600

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.

Explosion-proof motor (Please contact us.) SS2-8114-0200

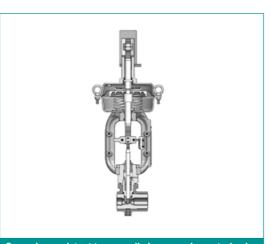


Electric top guided single seated control valve

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 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.

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



Corrosion-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

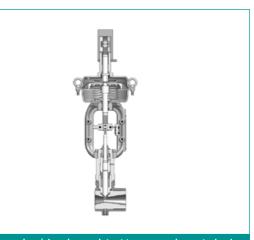
0 to 200°C

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



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

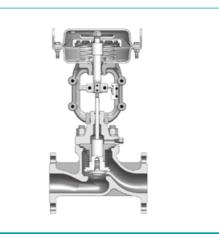
Less than 1.0 to 1.5% of maximum valve capacity

13 to 120

30:1

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

SS2-8193-0300



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

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 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.

Explosion-proof motor (Please contact us.) SS2-8114-1100

Single seated

Low-noise

valves

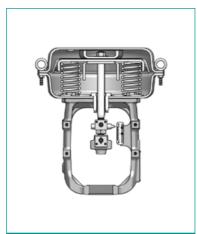
3-way

Corrosionresistant or abrasionresistant valves

valves

Motorized

Industrial Control Valves 13



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



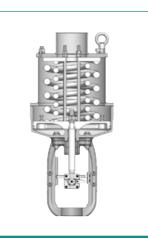
Actuators

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 actionCompact, lightweight

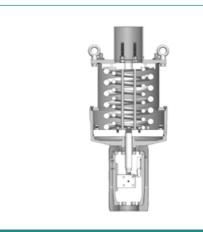


Spring piston cylinder

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

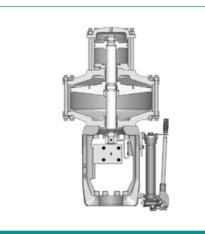


High power spring cylinder

PSA7R

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

Single action
 High power, low supply pressure



Springless piston cylinder

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 actionCompact, high power

resistant

Single seated

Low-noise

Angle

valves

3-way

Motorized

Actuators

Accessories

Structural drawing

Valve type Model No.

Compact, long stroke

Single action

GOM83S to GOM124S

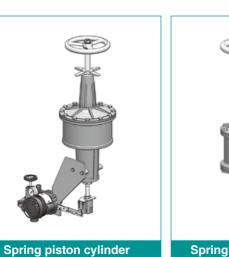
Direct action

75 to 100mm

With manual handwhee

140kPa {1.4kgf/cm²}

No.SS2-8210-0200



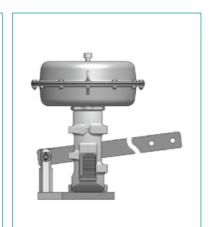
Springless piston cylinder

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

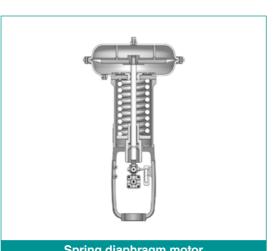
HL2_ to HL4_

Direct and reverse action

140 to 390kPa {1.4 to 4.0kgf/cm²}

No.SS2-8213-0510 Single action

Compact, lightweight



Spring diaphragm motor

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

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

Low-noise



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
- 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



4 to 20mADC, split range setting available 10 to 100mm (Linear), to 90° (Rotary)

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

Smart Valve Positioner 300 Series AVP30

140 to 700kPa {1.4 to 7.0kgf/cm²} -40 to +80°C No.SS2-AVP300-0100

- Valve position transmitter function



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} 14 to 100mm 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-_

{0.2 to 1.0, 0.2 to 0.6, 0.6 to 1.0kgf/cm²} 6 to 100mm 140 to 390kPa {1.4 to 4.0kgf/cm²} -25 to +60°C No.SS2-8310-0200 Single action

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

Multipurpose

Motorized

Actuators

Accessories

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} 19 to 50mm 200kPa {2.0kgf/cm²} 0 to +70°C

• 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

Picture

Picture

Positioner type

Model No.

Positioner type

Model No.

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

· Easy zero/span adjustments, wide applicability

- · Single action/Double action Anti-Vibration capabilities
- Valve position transmitter function
- For small actuators on FloWing valves

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

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

Pneumatic positioner

VPR08-_

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

16 Industrial Control Valves



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



Air lock relay

VF02

MAX.690kPa {7kgf/cm²}

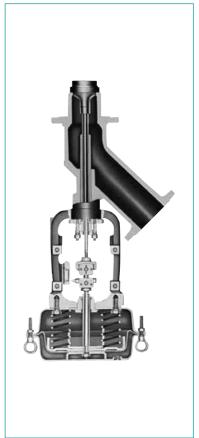
20 to 200kPa {0.2 to 2.0kgf/cm²} 120 to 290kPa {1.2 to 3.0kgf/cm²} -30 to +80°C No.SS2-8310-0800

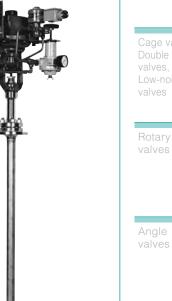
• In case of air pressure failures, relay maintains at the pre-failure level the



Cage Valve for LNG (20 in.) Model VDC___







Super low-temperature Valve for Liquid Hydrogen

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
- For specialized on/off switching with both automatic and manual



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



Let-down Valve for Coal Liquefaction

Model VAZ___



Minimum Flow Valve for Pumps

Model EAVM___

Low-noise

3-way

resistant

Motorized

Actuators

Accessories

Special purpose valves

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

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. Monitor the production status throughout the factory and operate the equipment. Using mobile terminals, gain a Operate the equipment after clear picture of what is checking instructions and guidance. happening on site throughout the factory. Gain a clear idea of how production is proceeding by using on-site indicators and recorders.

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Advanced Automation Company

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