AUTOMATIC CONTROLS
RESIDENTIAL & COMMERCIAL AIR CONDITIONER

**PRESSURE REGULATING VALVES**

Max. working press.: 2.9MPa
Connection: 7.94(I.D.)
Type: DPR

Max. working press.: 4.2MPa
Capacity: 2.9 to 11.1 U.S.R.T. (R22)
2.3 to 8.7 U.S.R.T. (R134a)
2.1 to 7.8 U.S.R.T. (R404A)
3.0 to 11.4 U.S.R.T. (R407C)
3.4 to 13.1 U.S.R.T. (R410A)
Fluid temp.: -30 to 70 °C
Power supply: 12V.DC

**PRESSURE ACTUATED WATER REGULATING VALVES**

Max. working press.: 1.96, 4.2MPa
Connection: 3/8" to 2-1/2"

**ELECTRONIC EXPANSION VALVES**

Max. allowable press.: 3.0MPa
Capacity: 6.38 to 15.8 U.S.R.T. (R410A)
Refrigerant: R22, R134a, R404A, R407C, R410A

Max. allowable press.: 1.4 to 3.3MPa
Capacity: 0.35 to 5.18 U.S.R.T. (R410A)
Refrigerant: R22, R134a, R404A, R407C, R410A

**EXPANSION VALVES**

Max. allowable press.: 3.0MPa
Capacity: 0.35 to 5.18 U.S.R.T. (R410A)
Refrigerant: R22, R134a, R404A, R407C, R410A

**SOLENOID VALVES**

Max. allowable press.: 4.3MPa
Capacity: 0.46 to 55.5 U.S.R.T. (R22)
0.34 to 42.7 U.S.R.T. (R134a)
0.46 to 55.5 U.S.R.T. (R407C)
0.51 to 66.9 U.S.R.T. (R410A)
Operating press. differential: 0.3 to 3.1MPa
Fluid temp.: -20 to 120 °C

**Type UKV**

**ELECTRONIC EXPANSION VALVES**

Max. working press.: 4.2MPa
Capacity: 2.9 to 11.1 U.S.R.T. (R22)
2.3 to 8.7 U.S.R.T. (R134a)
2.1 to 7.8 U.S.R.T. (R404A)
3.0 to 11.4 U.S.R.T. (R407C)
3.4 to 13.1 U.S.R.T. (R410A)
Fluid temp.: -30 to 70 °C
Power supply: 12V.DC

**Type SCX**

**EXPANSION VALVES**

Max. working press.: 3.0MPa
Capacity: 6.38 to 15.8 U.S.R.T. (R410A)
Refrigerant: R22, R134a, R404A, R407C, R410A

**Type QCX/RCX**

**EXPANSION VALVES**

Max. working press.: 3.0MPa
Capacity: 0.35 to 5.18 U.S.R.T. (R410A)
Refrigerant: R22, R134a, R404A, R407C, R410A

**Type RPV**

**SOLENOID VALVES**

Max. working press.: 4.3MPa
Connection: 1/4" to 7/8"

**Type STF**

**4-WAY REVERSING VALVES**

Max. working press.: 4.15MPa
Capacity: 65.4 to 102 U.S.R.T. (R410A)

**Type DPV**

**SOLENOID VALVES for dehumidifying**

Function
Max. working press.: 4.2MPa
Type: Normal-Open

**Type BPV**

**BI-FLOW SOLENOID VALVES**

Max. working press.: 3, 4.2MPa
Connection: 3/8" to 1-1/2"

**Type VHV**

**4-WAY REVERSING VALVES**

Max. working press.: 4.15MPa
Capacity: 65.4 to 102 U.S.R.T. (R410A)

**Type WPF**

**PRESSURE ACTUATED WATER REGULATING VALVES**

Max. working press.: 1.96, 4.2MPa
Connection: 3/8" to 2-1/2"
RESIDENTIAL & COMMERCIAL AIR CONDITIONER

CHECK VALVES
Max. working press.: 4.15, 4.2MPa
Connection: 1/4" to 1"  
PACKLESS VALVES
Max. working press.: 2.94, 3.53MPa
Connection: 1/4" to 3/4"  
PACKLESS VALVES
Max. working press.: 3.6MPa
Connection: 1/4" to 7/8"  
DRAIN PUMPS
Pump head: 200 to 1125mm
Rated voltage: 220 to 240VAC

Type UCV/BCV  
Type NBV  
Type ADV  
Type SDP

Type ACB/LCB
SMALL PRESSURE CONTROLS
(DISCS TYPE)
Range: 0.7 to 4.5MPa
0.1 to 0.7MPa
Contact function: SPST, SPDT
Electrical ratings: 250VAC 1 to 4A
Press. connections:
1/4" flare, 1/4" solder, etc.

Type SYS  
Type DYS

Type WNS/ONS  
Type XSK

DIFF. PRESSURE CONTROLS
Range of press. diff.: 0.03 to 0.35MPa
PRESSURE SENSORS
Range: -0.05 to 1MPa
0 to 5MPa, etc.
Output: 4 to 20mA

Type XGE  
Type RGE  
Type LNE  
Type XNE

CONDENSER FAN SPEED CONTROLLERS
PHASE: SINGLE
Range: 1 to 3.9MPa
CONDENSER FAN SPEED CONTROLLERS
PHASE: SINGLE / THREE
Range: 0.8 to 3.9MPa
PULSE CONVERTERS
Power supply: AC24V/ DC24V
Output: 0 to 480 pulse
SUPERHEAT CONTROLLER
Power supply: AC24V/ DC24V
Temperature range: -30 to 30 °C
**REFRIGERATION**

**Type SCX**
**EXPANSION VALVES**
- Max. allowable press.: 3.0MPa
- Capacity: 3.25 to 14.4 U.S.R.T. (R22)
- 4.76 to 11.8 U.S.R.T. (R134a)
- 1.92 to 9.06 U.S.R.T. (R404A)
- 5.95 to 14.8 U.S.R.T. (R407C)
- 6.38 to 15.8 U.S.R.T. (R410A)
- Equalizer: External
- Refrigerant: R22, R134a, R404A, R407C, R410A
- Connection: 1/2" × 5/8", 5/8" × 7/8"

**Type QCX/RCX**
**EXPANSION VALVES**
- Max. allowable press.: 3.0MPa
- Capacity: 0.22 to 4.69 U.S.R.T. (R22)
- 0.24 to 3.64 U.S.R.T. (R134a)
- 0.13 to 2.96 U.S.R.T. (R404A)
- 0.32 to 4.83 U.S.R.T. (R407C)
- 0.35 to 5.18 U.S.R.T. (R410A)
- Equalizer: Internal/External
- Refrigerant: R22, R134a, R404A, R407C, R410A
- Connection: 3/8" × 1/2"

**Type SCX Type QCX/RCX**

**Type AEX**
**EXPANSION VALVES**
- Max. allowable press.: 0.36 to 1.80 U.S.R.T. (R134a)
- Refrigerant: R22, R134a, R404A, R407C, R410A

**Type ARX**
**EXPANSION VALVES**
- Max. allowable press.: 3.0MPa
- Capacity: 0.36 to 1.80 U.S.R.T. (R134a)
- Refrigerant: R22, R134a, R404A, R407C, R410A

**Type PKV**
**ELECTRONIC EXPANSION VALVES**
- Max. working press.: 4.2MPa
- Capacity: 0.36 to 1.80 U.S.R.T. (R134a)
- Refrigerant: R22, R134a, R404A, R407C, R410A

**Type GKV**
**ELECTRONIC EXPANSION VALVES**
- Max. working press.: 4.2MPa
- Capacity: 1.0 to 5.6 U.S.R.T. (R404A)
- Refrigerant: R22, R134a, R404A, R407C, R410A

**Type AKV**
**ELECTRONIC EXPANSION VALVES**
- Max. working press.: 4.2MPa
- Capacity: 16.7 to 19.8 U.S.R.T. (R404A)
- Refrigerant: R22, R134a, R404A, R407C, R410A

**Type IEV**
**3-WAY SOLENOID VALVES**
- Max. working press.: 2.94MPa
- Capacity: 2.56 to 11.84 U.S.R.T. (R404A)
- Refrigerant: R22, R134a, R404A, R407C, R410A

**Type SGV/HGV**
**PACKED VALVES**
- Max. working press.: 2.94MPa
- Connection: 1/4" to 1/2"

**Type ACV/BCV**
**CHECK VALVES**
- Max. working press.: 3 to 4.15MPa
- Connection: 1/4" to 1/2"

**Type AWR/VWR**
**PRESSURE ACTUATED WATER REGULATING VALVES**
- Max. working press.: 1.96, 4.2MPa
- Connection: 1/4" to 1/2"

**Type OWR**
**TEMPERATURE ACTUATED WATER REGULATING VALVES**
- Max. working press.: 0.98MPa
- Connection: 1/2" to 2-1/2"
REFRIGERATION

PRESSURE REGULATING VALVES
Max. working press.: 2.5MPa
Connection: 1/2" to 1-3/8"

REGULATING VALVES
for hot gas line
Max. working press.: 2.5MPa
Connection: 1/2" to 5/8"

PRESSURE REGULATING VALVES
Max. working press.: 2.9, 4.17MPa
Connection: 1/2" to 7/8"

DIGITAL PRESSURE CONTROLS
Range: -0.095 to 5MPa
-0.095 to 0.095MPa

Type EPR/SPR
Type VPR
Type HPR
Type CFE/BFE

Type SYS
SINGLE FUNCTION PRESSURE CONTROLS (BELLOWS TYPE)
Range: -0.06 to 4.3MPa
Range of press. diff.: 0.035 to 1.5MPa
Contact function: SPDT
Electrical ratings:
125/250VAC 0.05 to 12A
Press. connections: 1/4" flare, etc.

Type DYS
DUAL PRESSURE CONTROLS (BELLOWS TYPE)
Range: High 0.8 to 3MPa
Low -0.06 to 0.6MPa
Range of press. diff.:
High Approx. 0.4 fixed
Low -0.06 to 0.4MPa
Contact function: D3...SPDT
D6...SPDT ×2
Electrical ratings: 125/250VAC 0.05 to 12A
Press. connections: 1/4" flare, etc.

Type WNS/ONS
Type ALS/BLS
Type TNS/INS
Type LWS

DIFF. PRESSURE CONTROLS
Range of press. diff.: 0.03 to 0.35MPa

TEMPERATURE CONTROLS
Range: -60 to 90 °C

TEMPERATURE CONTROLS
Range: -45 to 150 °C

TEMPERATURE CONTROLS
Range: -35 to 240 °C

DIGITAL THERMOSTATS
Type CFE/BFE
Type ALS/BLS
Type TNS/INS

DIGITAL THERMOSTATS
Type SYS
Type DYS

DIGITAL THERMOSTATS
Type ULE & TEK
Type TNE
Type AKM

DIGITAL THERMOSTATS
DIN 48×48
Range: -70 to 140 °C

TEMPERATURE RECORDERS
Type LWS
Type YNE

TEMPERATURE RECORDERS
Range: -40 to 54 °C

SUPERHEAT CONTROLLER
Power supply: AC24V/ DC24V
Temperature range: -50 to 50 °C
AIR CONDITIONING

SOLENOID VALVES for water/glycol
Max. working press.: 0.98 MPa
Connection: 1/2" to 3"

MOTORIZED BALL VALVES
Max. working press.: 1.6 MPa (Water)
Connection: 1/2" to 2"

SMALL MOTOR OPERATED VALVES
Max. working press.: 1 MPa (Water)
Connection: 1/2" to 3/4"

2-WAY & 3-WAY CONTROL VALVES WITH MOTOR ACTUATOR
Max. working press.: 0.98, 1.96 MPa
Connection: 1/2" to 10"

DAMPER MOTOR ACTUATORS
Rotation Angle: 90°
Torque: 14.7 N·m

TEMPERATURE CONTROLS
Range: 0 to 160°C

PROPORTIONAL TEMPERATURE CONTROLS
Range: -10 to 120°C

ROOM THERMOSTATS
Range: 10 to 30°C

ROOM HUMIDISTATS
Range: 30 to 90% RH

FLOW SWITCHES
Range: 18 to 2268 L/min

PRESSURE SENSORS
Range: 0 to 5 MPa, etc.
Output: 0.5 to 4.5 V DC
Press. connections: G1/4

SMALL PRESSURE CONTROLS (DISC TYPE)
Range: 0.3 to 2.5 MPa
Press. connections: R1/8, G1/8, G1/4

SMALL PRESSURE CONTROLS (DISC TYPE)
Range: 0.1 to 0.7 MPa

AIR CONDITIONING CONTROLLER

CONSTRUCTION MACHINERY AND HYDRAULICS, VEHICLES, SHIP
HOT-WATER SUPPLY UNITS

**ELECTRIC PROPORTIONAL VALVES**
- Max. working press.: 1MPa
- Flow rate: 1.4L/min at 1000 pulse
- 15L/min or more at 3000 pulse

**SOLENOID VALVES for water**
- Max. working press.: 0.1, 0.29MPa
- Cv value: 0.94 to 1.1

**FLOW SENSORS**
- Range: 1.5 to 25L/min

**PRESSURE REDUCING VALVES**
- Max. working press.: 750kPa
- Setting press.: 170kPa

**RELIEF VALVES**
- Withstand press. performance: 600kPa
- Start to discharge pressure: 190kPa

**AIR RELEASE VALVES**
- Withstand press. performance: 600kPa
- Start to discharge pressure: 190kPa

**ELECTRONIC 2-STEP/4-STEP THERMOSTATS**
- Range: -30 to 60 ℃

**UNIT OF VISCOSITY CONTROL**
- Setting: on 10 off 15MPa
- Max. working press.: 15MPa
- Press. connections: 1/4” solder

**PRESSURE SENSORS**
- Range: 0 to 15MPa
- Supply voltage: 5V.DC
- Press. connections: ⅛" and ¼" solder

**PRESSURE REDUCING VALVES**
- Max. working press.: 750kPa
- Setting press.: 170kPa

**RELIEF VALVES**
- Withstand press. performance: 600kPa
- Start to discharge pressure: 190kPa

**ELECTRONIC EXPANSION VALVES**
- Max. working press.: 15MPa
- Cv value: 0.065 to 0.17

**SOLENOID VALVES**
- Max. working press.: 13 to 15MPa
- Cv value: 0.028 to 0.54

**SMALL PRESSURE CONTROLS**
- Setting: on 10 off 15MPa
- Max. working press.: 15MPa
- Press. connections: 1/4” solder

**PRESSURE SENSORS**
- Range: 0 to 15MPa
- Supply voltage: 5V.DC
- Press. connections: ⅛" and ¼" solder

**TEMPERATURE CONTROLS**
- Range: -45 to 150 ℃

CONSTRUCTION MACHINERY AND HYDRAULICS, VEHICLES, SHIP
SAGINOMIYA, founded in 1948, is a leading manufacturer of a wide range of high quality, energy-saving Automatic Controls for Refrigeration, Cooling, Heating, Air conditioning equipment and Hot Water Supply systems. We have much experience in supplying both the domestic and overseas markets with our full line of Automatic Controls.

SAGINOMIYA produces Pressure Controls, various kinds of Thermostats, Flow Switches, Expansion Valves, Solenoid Valves, Valves in General, Metal Bellows and Testing Machine. To keep SAGINOMIYA a front runner in modern day technology, we are making a substantial investment and extensive research in developing a new line of Electronic Controls to meet today’s demands.

NOTES FOR SAFETY
Failure to read and follow all instruction carefully before installing or operating the product could cause personal injury and/or property damage.

Specifications are subject to change without notice.