

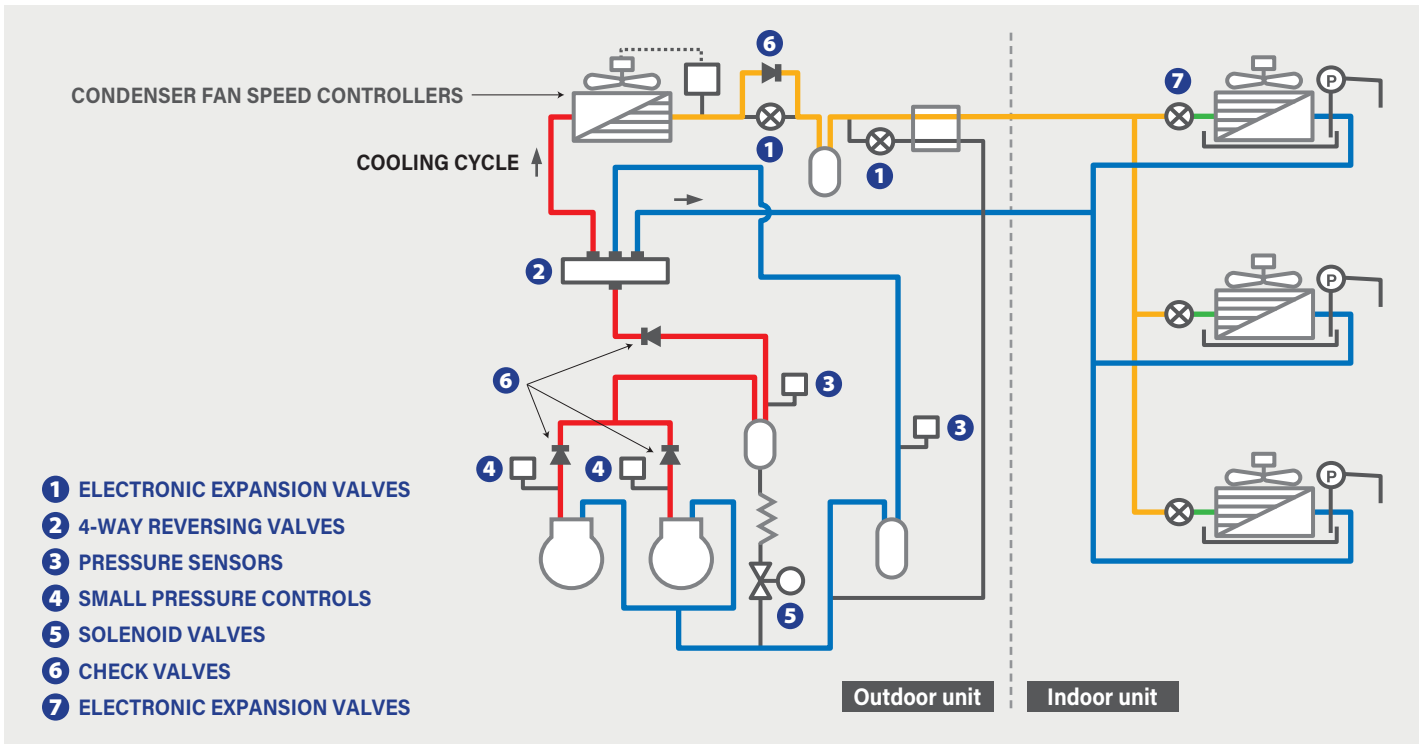
AUTOMATIC CONTROLS

Product Digest Catalog

SAGInoMIYA

AIR CONDITONING FIELD

Commercial Air Conditioning



R32, R454B

1 ELECTRONIC EXPANSION VALVES

UL OEM

Type UKV-S

[Supply Voltage] 12V, 24V.DC
[Max. Working Press.] 623psi
[Capacity] 0.5 to 39.6USRT (R410A)*
[Fluid Temp.] -22 to 158°F
[Actuator] Stepper Motor



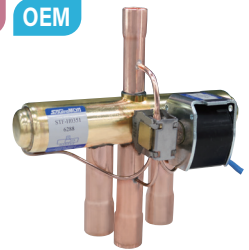
R32, R454B

2 4-WAY REVERSING VALVES

UL OEM

Type STF

[Capacity] 0.51 to 102USRT (R410A)*
[O.P.D] 44 to 449psi
[Fluid Temp.] -4 to 248°F
-4 to 266°F
(STF-20U27G to 60U9G)



R32, R454B

3 PRESSURE SENSORS

UL OEM

Type NSK

[Press. Range] 0 to 725psi, etc.
[Output] 0.5 to 4.5V.DC, etc. / 4 to 20mA
[Supply Voltage] 5V.DC, etc. / 7 to 35V.DC
[Connections] NPT, 1/4" Flare, Solder, R1/8"



R32, R454B

4 SMALL PRESSURE CONTROLS

UL OEM

Type ACB

[Range] 15 to 653psi (setting)
High Press. : 101 to 653psi
Low Press. : 15 to 101psi
[Contact Functions] SPST, SPDT
[Contant Capacity] 250V.AC 1 to 4A
[Connections] 1/4" Flare, Solder
High durability types (500K times) are also available



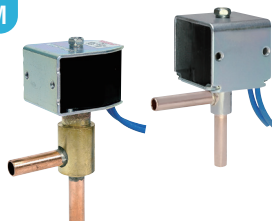
R32, R454B

5 SOLENOID VALVES

UL OEM

Type VPV/TEV-S

[Max. Working Press.] 623psi
[Fluid Temp.] -22 to 248°F
[Connections] 1/4" to 1/2" Solder
[Cv Value] VPV : 0.06 to 3.0
TEV-S : 0.037 to 0.09



R32, R454B

6 CHECK VALVES

OEM

Type UCV

[Max. Working Press.] 609psi
[Fluid Temp.] -22 to 248°F
[Connections] 1/2" to 7/8" Solder
[Cv Value] 1/2" : 4.5 5/8" : 4.5,7
3/4" : 9 7/8" : 9



*Please contact us for other refrigerants.

AIR CONDITIONING FIELD

R32, R454B

7 ELECTRONIC EXPANSION VALVES OEM

Type LKV-S

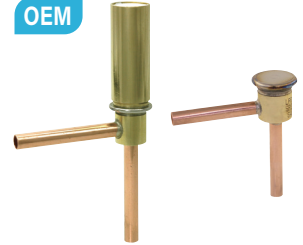
[Supply Voltage] 12V DC
[Max. Working Press.] 623psi
[Capacity] 1.9 to 11.0USRT (R410A)*
[Fluid Temp.] -22 to 154°F
[Actuator] Stepper Motor



PRESSURE REGULATING VALVES OEM

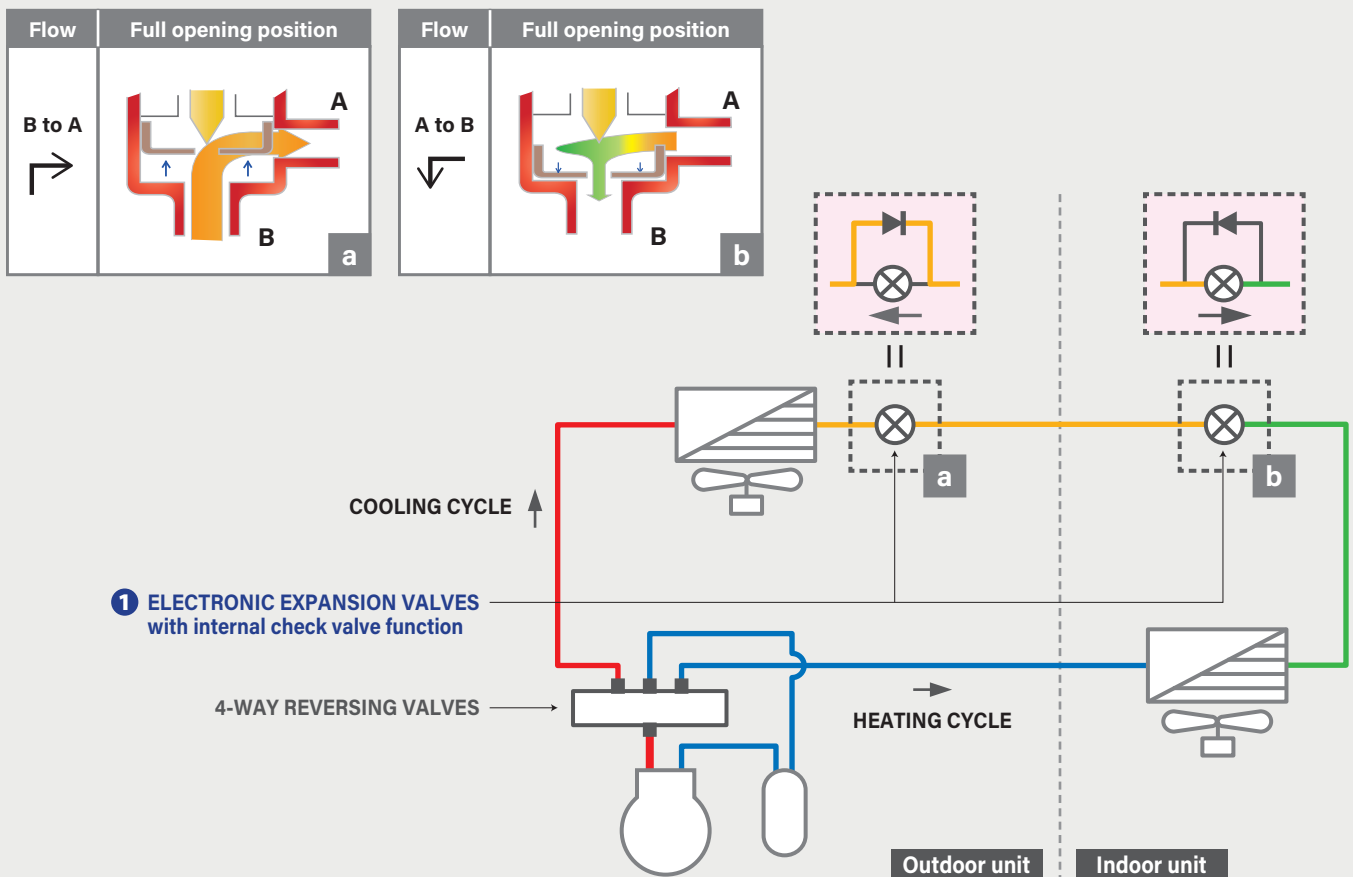
Type DPR/LPR

Discharge Regulation
[Max. Working Press.] 420psi
[Range] 142 to 355psi
Liquid Seal Protection
[Max. Working Press.] 609psi
[Range] 580psi



*Please contact us for other refrigerants.

Residential Air Conditioning



R32

SUPERHEAT CONTROLLERS OEM

Type XNE

[Supply Voltage] 24V.AC, 24V.DC
[Temp. Range] -22 to 86°F
[Ambient Temp.] 32 to 122°F
[Power Consumption] 15VA or less
[Control Method] PID Control
(pressure-temperature type)



R32, R454B

1 ELECTRONIC EXPANSION VALVES with internal check valve function UL OEM

Type UKV-F

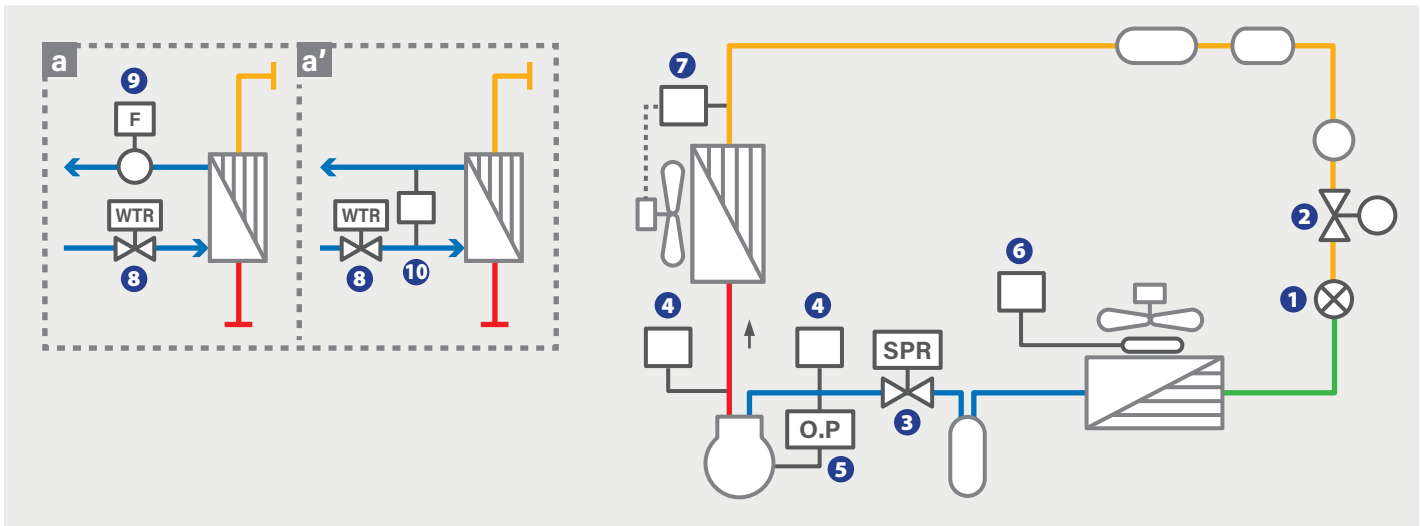
[Supply Voltage] 12V, 24V.DC
[Max. Working Press.] 623psi
[Capacity] 3.4 to 7.6USRT (R410A)*
[Fluid Temp.] -22 to 158°F
[Actuator] Stepper Motor



*Please contact us for other refrigerants.

REFRIGERATION FIELD

Commercial Refrigeration Unit ①



R448A, R449A, R454C, R1234yf, R290

① EXPANSION VALVE

Type ARX

[Max. Working Press.] 406psi
[Capacity] 0.34 to 1.71USRT (R404A)*
[Connections] 5/16" × 3/8" Solder

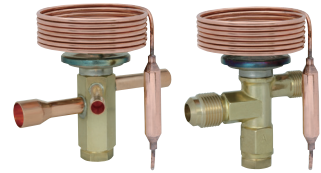


R448A, R449A, R454C, R1234yf, R600a, R290

① EXPANSION VALVES

Type QCX/RCX

[Max. Working Press.] 435psi
[Capacity] 0.20 to 2.96USRT (R404A)*
[Equalizer] Internal/External
[Connections] 3/8" × 1/2" Flare, Solder

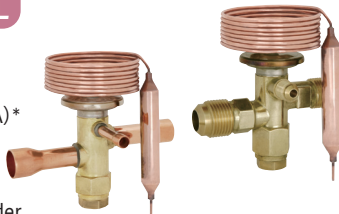


R448A, R449A, R454C, R1234yf, R600a, R290

① EXPANSION VALVES

Type SCX

[Max. Working Press.] 435psi
[Capacity] 3.64 to 9.07USRT (R404A)*
[Equalizer] External
[Connections]
1/2" × 5/8" Flare, Solder
5/8" × 7/8" Solder, 7/8" × 1-1/8" Solder



R448A, R449A

① EXPANSION VALVES

Type ATX

[Max. Working Press.] 406psi
[Max. Working Temp. (Body)] 176°F
[Capacity] 0.7 to 56.9USRT (R404A)*
[Equalizer] External (1/4" Flare)
[Connections] 3/8" to 1" Solder
3/8" × 1/2" Flare



R448A, R449A

② SOLENOID VALVES

Type SEV

[Max. Working Press.] 609psi
[Fluid Temp.] -40 to 257°F
[M.O.P.D.] 355psi (AC),
284psi (DC)
[Cv Value] 0.25 to 5.3
[Connections] 1/4" to 3/4" Male Flare
1/4" to 7/8" Solder



R448A, R449A

② SOLENOID VALVES

Type REV

[Max. Working Press.] 609psi
[Fluid Temp.] -40 to 257°F
[M.O.P.D.] 355psi
[Cv Value] 1.0 to 19.4
[Connections] 3/8" to 5/8" Male Flare
Rc3/8" to 3/4"
3/8" to 1-5/8" Solder

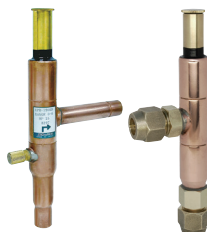


R448A, R449A

③ PRESSURE REGULATING VALVES

Type EPR/SPR

[Max. Working Press.] 363psi
[Capacity] EPR: 1.9 to 4.0USRT (R404A)*
SPR: 1.1 to 4.5USRT (R404A)*
[Adjusting Range] 0 to 87psi
[Connections] Flare, Solder



R448A, R449A, R454C, R1234yf, R600a, R290

CHECK VALVES

Type BCV

[Max. Working Press.] 602psi
[Fluid Temp.] -22 to 248°F
[Cv Value] 0.33 to 8
[Connections] 1/4" to 1" Solder



*Please contact us for other refrigerants.

REFRIGERATION FIELD

R448A, R449A

4 SMALL PRESSURE CONTROLS

UL OEM

Type LTB/ETB

[Range] LTB : 0 to 56.9psi
ETB : 14.2 to 35.6psi
[Max. Working Press.] 213psi
[Fluid Temp.] -4 to 248°F
[Contact Functions]
LTB : SPST, ETB : Manual Reset



R448A, R449A

4 SMALL PRESSURE CONTROLS

UL OEM

Type HTB/FTB

[Range] 113 to 426psi
[Max. Working Press.] 469psi
[Fluid Temp.] -4 to 248°F
[Contact Functions]
HTB : SPST
FTB : Manual Reset



R448A, R449A

4 SINGLE FUNCTION PRESSURE CONTROLS

UL

Type SNS

[Range] Min. -9 to 145psi
Max. 14.5 to 507psi
[Max. Working Press.] 43.5 to 551psi
[Contact Functions] SPDT
[Contact Capacity]
Small Current : 120V, 240V.AC 0.075A
Medium Current : 120V.AC 10A, 240V.AC 8 to 10A
Large Current : 120V.AC 16 to 20A, 240V.AC 8 to 17A
[Connections] 1/4" Male Flare
Capillary and 1/4" Female Flare with Schrader



R448A, R449A

4 DUAL PRESSURE CONTROLS

UL

Type DNS

[Low Side Range] Min. -9 to 116psi
Max. 58 to 87psi
[High Side Range] Min. 116psi
Max. 435psi
[Max. Working Press.] Low Side : 218psi
High Side : 479psi
[Contact Functions] SPST, SPDT
[Contact Capacity] Small Current : 120V, 240V.AC 0.075A
Medium Current : 120V.AC 10A, 240V.AC 8 to 10A
Large Current : 120V.AC 16 to 20A, 240V.AC 8 to 17A
[Connections] 1/4" Male Flare
Capillary and 1/4" Female Flare with Schrader



R448A, R449A

5 OIL PROTECTION CONTROLS

Type ONS

[Range] 7.3 to 50.8psi
[Press. Differential] 7.3psi (Approx.)
[Max. Working Press.] 218psi
[Fluid Temp.] -4 to 248°F
[Contact Capacity] 250V.AC 3A (cosφ=0.75)



6 TEMPERATURE CONTROLS

UL

Type LWS

[Range] -31 to 464°F
[Contact Functions] SPDT
[Contact Capacity] 125V.AC 0.05 to 8.5A, 0.5 to 16A
250V.AC 0.05 to 4.5A, 0.5 to 8A



R448A, R449A, R454C, R1234yf, R600a, R290

7 CONDENSER FAN SPEED CONTROLLERS

UL

Type XGE

[Max. Working Press.] 681psi
[Control Method] Phase Control
[Range] 116 to 566psi
[Rated Amp.] 0.2 to 3A
[Connections] 1/4" Female Flare with Schrader



R448A, R449A

7 CONDENSER FAN SPEED CONTROLLERS

UL

Type RGE

[Max. Working Press.] 681psi
[Control Method] Phase Control
[Range] 116 to 566psi
[Rated Amp.] 0.2 to 8A
[Connections] 1/4" Female Flare with Schrader



R448A, R449A, R454C, R1234yf, R600a, R290

8 PRESSURE ACTUATED WATER REGULATING VALVES

UL

Type AWR/VWR

[Range] AWR : 87 to 261psi, VWR : 145 to 421psi
[Max. Working Press.] AWR : 290psi, VWR : 522psi
[Max. Water Temp.] 140°F
[Max. Water Press.] 145psi

*Excl. AWR

[Connections] AWR : 1/2" Flare
Rc3/8" to 1-1/2"
1-1/2" to 2-1/2" Flange
VWR : NPT3/8" to 3/4"
Rc3/8" to 3/4"



9 FLOW SWITCHES

UL

Type FQS

[Range] 18 to 2268L/min
[Max. Working Press.] 145psi
[Fluid Temp.] 41 to 636°F



R448A, R449A

10 DIFFERENTIAL PRESSURE CONTROLS

UL

Type WNS

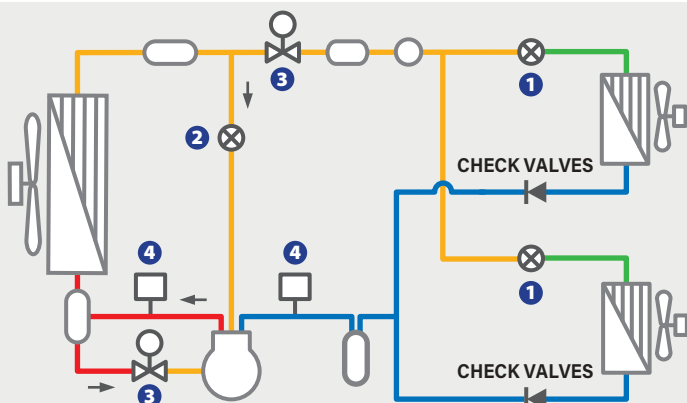
[Range] 4.4 to 50.8psi
[Press. Differential] 4.4 to 36.3psi
[Max. Working Press.] 72.5 to 218psi

[Fluid Temp.] -4 to 248°F
[Electrical Rating] 250V.AC 4.5A
(cosφ=0.75)



REFRIGERATION FIELD

Commercial Refrigeration Unit ②



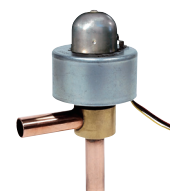
- ① ELECTRONIC EXPANSION VALVES/ELECTRIC EXPANSION VALVES
- ② ELECTRONIC EXPANSION VALVES (Hot gas)
- ③ SOLENOID VALVES
- ④ SMALL PRESSURE CONTROLS

R448A, R449A, R454C, R1234yf, R600a, R290

① ELECTRONIC EXPANSION VALVES UL OEM

Type AKV

[Supply Voltage] 12V.DC
[Max. Working Press.] 609psi
[Capacity] 16.7 to 19.8USRT (R404A)*
[Fluid Temp.] -22 to 248°F



R448A, R449A, R454C, R1234yf, R600a, R290

① ELECTRONIC EXPANSION VALVES UL OEM

Type UKV

[Supply Voltage] 12V.DC
[Max. Working Press.] 623psi
[Capacity] 0.3 to 7.9USRT (R404A)*
[Fluid Temp.] -58 to 140°F
[Actuator] Stepper Motor



R448A, R449A

① ELECTRONIC EXPANSION VALVES

Type GKV

[Supply Voltage] 12V.DC, 24V.DC
[Max. Working Press.] 609psi
[Capacity] 2.1 to 11.2USRT (R404A)*
[Fluid Temp.] -94 to 140°F

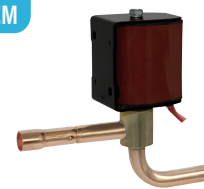


R448A, R449A

① ELECTRIC EXPANSION VALVES OEM

Type EPV

[Supply Voltage] 100V.AC, 200V.AC, 220V.AC
[Max. Working Press.] 609psi
[Capacity] 0.4 to 2.6USRT (R404A)*
[Fluid Temp.] -22 to 158°F
[Connections] 3/8" Solder



R448A, R449A, R454C, R1234yf, R290

② ELECTRONIC EXPANSION VALVES UL OEM

Type VKV

[Supply Voltage] 12V, 24V.DC
[Max. Working Press.] 609psi
[Capacity] 1.0 to 9.3USRT (R404A)*
[Fluid Temp.] -22 to 248°F
40D : -22 to 140°F

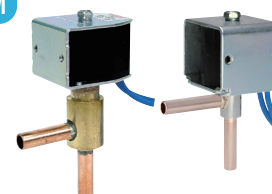


R448A, R449A, R454C, R1234yf, R600a, R290

③ SOLENOID VALVES UL OEM

Type VPV/TEV-S

[Max. Working Press.] 623psi
[Fluid Temp.] -22 to 248°F
[Connections] 1/4" to 1/2" Solder
[Cv Value] VPV : 0.06 to 3.0
TEV-S : 0.037 to 0.09



R448A, R449A, R454C, R1234yf, R600a, R290

④ SMALL PRESSURE CONTROLS UL OEM

Type ACB

[Range] 15 to 653psi (setting)
ACB : 101 to 653psi
LCB : 15 to 101psi
[Contact Functions] SPST, SPDT
[Contact Capacity] 250V.AC 1 to 4A
[Connections] 1/4" Flare, Solder
Please contact us about high durability type



R448A, R449A, R454C, R1234yf, R600a, R290

④ PRESSURE SENSORS UL OEM

Type NSK

[Press. Range] 0 to 725psi, etc.
[Output] 0.5 to 4.5V.DC, etc. / 4 to 20mA
[Supply Voltage] 5V.DC, etc. / 7 to 35V.DC
[Connections] NPT, 1/4" Flare, Solder, R1/8"



R448A, R449A

④ PRESSURE SENSORS

Type XSK

[Press. Range] 0 to 725psi, etc.
[Output] 4 to 20mA
[Supply Voltage] 10.5 to 28V.DC
[Connections] 1/4" Flare, R1/8", R1/4", R3/8"



DIAPHRAGM TYPE STOP VALVES

Type ADV

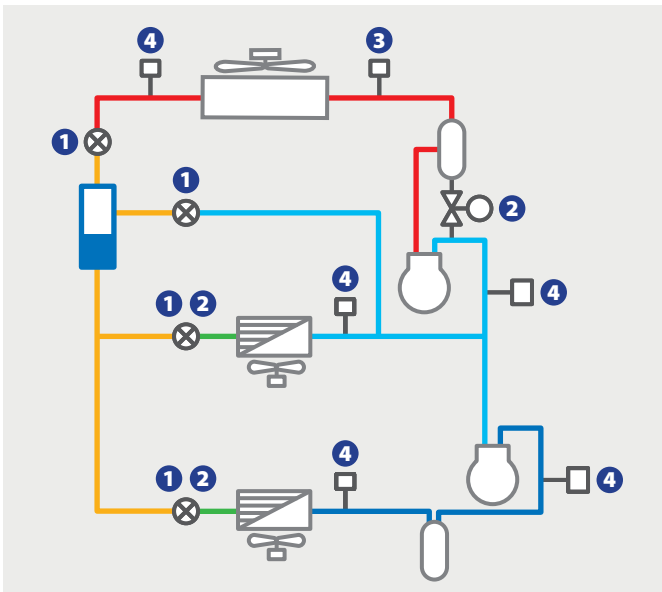
[Max. Working Press.] 507psi
[Fluid Temp.] -40 to 248°F
[Cv Value] 0.35 to 3.46
[Connections] 1/4" to 3/4" Flare, 1/4" to 7/8" Solder



*Please contact us for other refrigerants.

REFRIGERATION FIELD

Transcritical CO₂ system

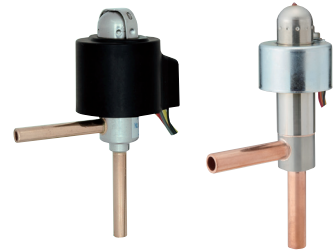


1 ELECTRONIC EXPANSION VALVES UL * OEM

Type UKV-J/JKV

[Supply Voltage] 12V.DC
[Max. Working Press.] 2175psi
[Capacity] 1.0 to 34.0USRT
[Fluid Temp.] -22 to 158°F
[Actuator] Stepper Motor

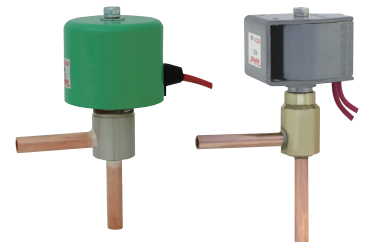
*Excl. JKV



2 SOLENOID VALVES OEM

Type HPV

[Max. Working Press.]
1885, 2001, 2030, 2175psi
[Fluid Temp.] -22 to 248°F
[Connections] 1/4", 5/16" Solder
[Cv Value] 0.028, 0.038, 0.32, 0.54



3 PRESSURE CONTROLS UL OEM

Type CCB

[Range] on 1450psi
off 2175psi
[Contact Functions] SPST
[Connections] 1/4" Solder



3 PRESSURE CONTROLS UL

Type CKB

[Range] on 638 to 1595psi
(on-off Diff.145psi) or
Manual reset
off 783 to 1740psi
[Contact Functions] SPDT
[Connections] 1/4" Female flare
[Reset Type] Automatic reset /
Manual reset



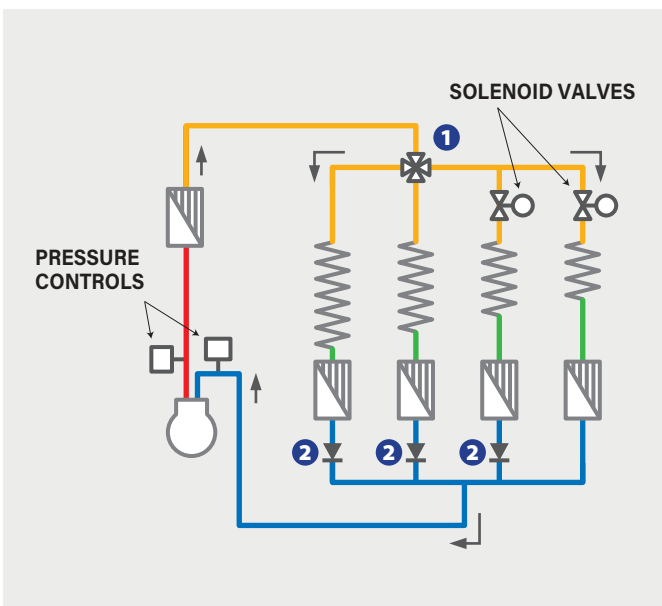
4 PRESSURE SENSORS OEM

Type HSK

[Press. Range]
0 to 2175psi
[Output]
0.5 to 4.5V.DC / 4 to 20mA
[Supply Voltage]
5V.DC / 7 to 35V.DC
[Connections]
Solder, NPT 1/4"



Household Refrigerator

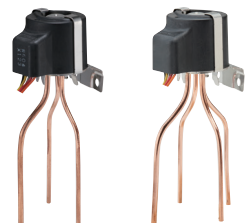


R600a, R290

1 3-WAY/4-WAY ELETRONIC CHANGE-OVER VALVES UL OEM

Type RKV

[Supply Voltage] 12V.DC
[Max. Working Press.] 435psi
[Post Size] ϕ 0.8, 1.0
[Fluid Temp.] -22 to 149°F
[Actuator] Stepper Motor



R600a, R290

2 CHECK VALVES UL * OEM

Type FCV/BCV

[Max. Working Press.] 700psi
[Fluid Temp.] -40 to 257°F
[Connections]
1/4" to 3/4" Solder
[Cv Value] 0.55 to 6

*Excl. BCV



[Max. Working Press.] 602psi
[Fluid Temp.] -22 to 248°F
[Connections]
1/4" to 1" Solder
[Cv Value] 0.33 to 8



INDUSTRIAL FIELD

■ For Construction Machinery and Automobile Industries



SMALL PRESSURE CONTROLS **OEM**

Type **LCB**

for Construction Machinery

[Range] 72.5 to 174.0psi
[Supply Voltage] 12V, 24V.DC
[Ambient Temp.] -40 to 302°F
[Contact Functions] SPST
[Connections] R1/8"

for Automobile Engine

[Range] 14.5 to 36.3psi
[Supply Voltage] 12V, 24V.DC
[Ambient Temp.] -40 to 302°F
[Contact Functions] SPST N.C
[Connections] M10

for Automobile Transmission

[Range] 29.0 to 58.0psi
[Supply Voltage] 12V, 24V.DC
[Ambient Temp.] -40 to 302°F
[Contact Functions] SPST N.O
[Connections] M10



PRESSURE SENSORS **OEM**

Type **KSK**

for Construction Machinery

[Range] 0 to 725psi
[Output Voltage] 0.5 to 4.5V.DC
[Supply Voltage] 5V.DC
[Ambient Temp.] -22 to 212°F
[Connections] G1/4" with P11 O-Ring



SMALL PRESSURE CONTROLS **OEM**

Type **HCB-K**

for Construction Machinery

[Range] 43.5 to 362.6psi
[Supply Voltage] 12V, 24V.DC
[Ambient Temp.] -22 to 212°F
[Contact Functions] SPST
[Connections] R1/8", G1/4", G1/8"

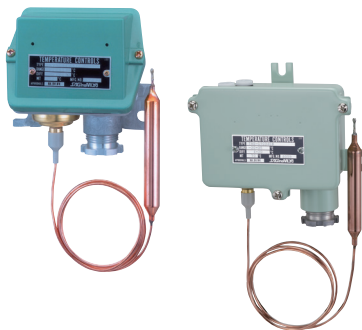


■ For Ships

TEMPERATURE CONTROLS

Type **TNS-P/W**

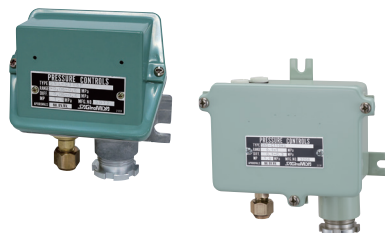
Drip Proof & Water Proof Model
[Range] Min. -49 to 239°F
Max. 32 to 302°F
[Limit Temp] 104 to 356°F
[Contact Functions] SPDT
[Contact Capacity] 125V.AC 8.5 to 10A
250V.AC 4.5 to 5A
[Connections] 1/4" Male Flare
[Conduit Gland] ϕ 0.79in., ϕ 0.59in.



PRESSURE CONTROLS

Type **SNS-P/W**

Drip Proof & Water Proof Model
[Range] Min. -9 to 145psi
Max. 14.5 to 507psi
[Max. Working Press] 43.5 to 551psi
[Contact Functions] SPDT
[Contact Capacity] 125V.AC 8.5 to 10A
250V.AC 4.5 to 5A
[Connections] 1/4" Male Flare
[Conduit Gland] ϕ 0.79in., ϕ 0.59in.



UNIT OF VISCOSITY CONTROL

Type **VCU**



Viscosity Controller
(DUJ)



Viscosity Sensor
(AVM)



Steam Control Motor Valve
(WGK+NVK)

INDUSTRIAL FIELD

For Semiconductor and liquid crystal manufacturing equipment

VORTEX FLOW METERS

UL

Type SLK

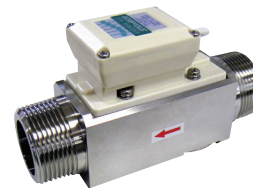
[Fluid contact Material] PFA
[Range] 0.4 to 90L/min
[Supply Voltage] 12 to 24V.DC
[Output]
(Current type) Current : 4 to 20mA
(Pulse type) Pulse Rate : 0.1 to 10mL/pulse
[Max. Working Press.] 72.5 to 145psi
[Fluid Temp.] 32 to 194°F
[Ambient Temp.] 32 to 122°F



VORTEX FLOW SENSORS

Type JLK

[Fluid contact Material]
Stainless Steel, PPS, EPDM or FKM
[Range] 4 to 220L/min
[Supply Voltage] 12 to 24V.DC
[Output] 4 to 20mA
[Max. Working Press.] 145psi
[Fluid Temp.] 32 to 194°F
[Ambient Temp.] 32 to 122°F



VORTEX FLOW METERS

Type RLK

[Fluid contact Material] PVC-U, EPDM or FKM
[Range] 4 to 130L/min
[Supply Voltage] 12 to 24V.DC
[Output] Current : 4 to 20mA
Pulse Rate : 2 to 100mL/pulse
[Max. Working Press.] 145psi
[Fluid Temp.] 32 to 122°F
[Ambient Temp.] 32 to 122°F



BELLOWS

OEM

Type HBL etc./WSL

Hydraulically Forming Bellows
[Materials] Phosphor Bronze, etc.
[Sizes] O.D : 0.3 to 11.3in.
I.D : 0.2 to 10.5in.
Welding Bellows
[Materials] Stainless Steel
[Sizes] O.D : 0.5 to 6.0in.
I.D : 0.3 to 5.4in.



RESISTIVITY METERS

Type RNE/ARK

[Range] 0.05 to 20MΩ·cm
[Supply Voltage] 24V.DC
[Output] 4 to 20mA
[Max. Working Press.] 116psi
[Fluid Temp.] 32 to 203°F
[Ambient Temp.] 32 to 113°F
[Fluid] Ultra Purified Water or Purified Water



Others

PRESSURE REDUCING VALVES

Type ARV

[Decompress Range]
14.5 to 508psi
[Fluid Temp.] -4 to 176°F
[Max. Working Press.] 522psi
[Connections]
3/8" to 3/4" Flare



BELLOWS TYPE STOP VALVES

Type NBV

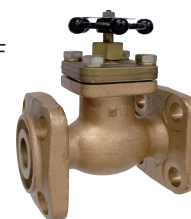
[Max. Working Press.]
426, 511psi
[Fluid Temp.] -22 to 248°F
[Cv Value] 0.36 to 6.7
[Connections]
1/4" to 3/4" Flare
10A, 15A, 20A Flange
Rc1/4" to 3/4"



BELLOWS TYPE STOP VALVES

Type SBV

[Max. Working Press.]
426, 511psi
[Fluid Temp.] -22 to 248°F
[Cv Value] 10 to 45
[Connections]
25A to 50A Flange
Rc1" to 2"



DIGITAL THERMOSTATS

Type ALE

[Range]
-58 to 86°F, 32 to 212°F
[Supply Voltage]
85 to 264V.AC
[Ambient Temp.]
14 to 122°F



DIGITAL HUMIDISTATS

Type BLE

[Range] 30 to 90%RH
[Supply Voltage]
85 to 264V.AC
[Ambient Temp.]
14 to 122°F



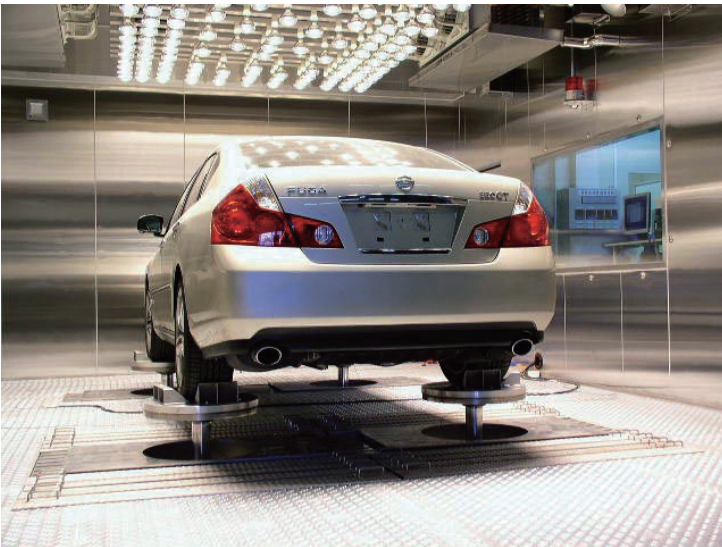
INDUSTRIAL FIELD

■ Test Systems

■ Driving Simulator DiM (Driver in Motion)



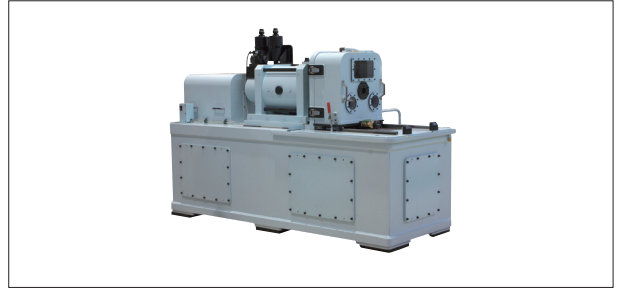
■ Road Simulator (4Poster)



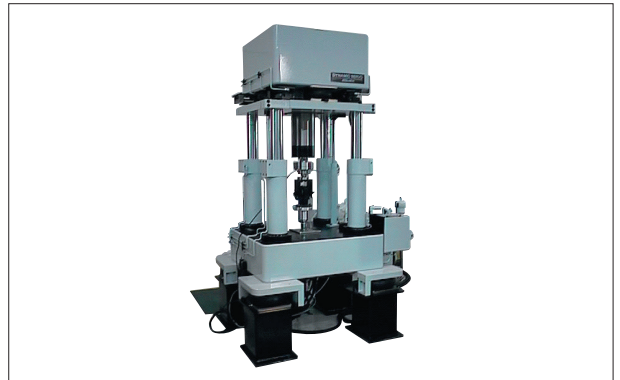
■ 6DOF Road Simulator



■ Spin Torsional Test System



■ Elastomer Test System



■ Torsional Elastomer Test System



■ Electric Servo Test System



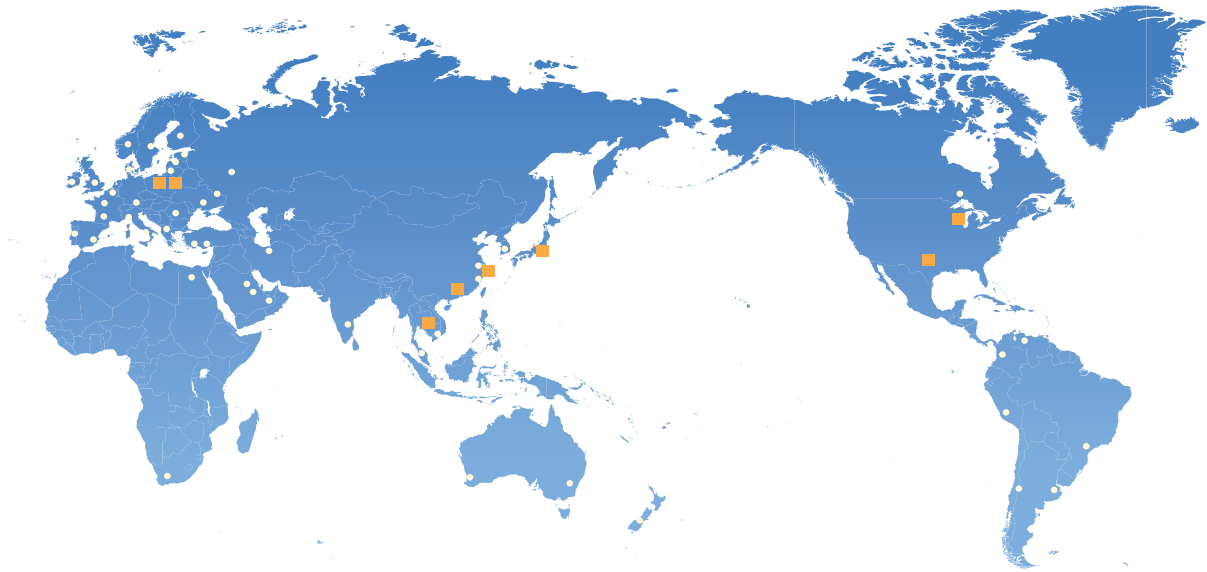
GLOBAL NETWORKS



SAGINOMIYA AMERICA, INC. (USA)
Sales



SAGINOMIYA AMERICA, INC. Dallas Office (USA)
Sales



SAGINOMIYA EUROPE Sp. z o.o. (Poland)
Sales



Danfoss Saginomiya Sp. z o.o. (Poland)
Manufacturing



**FOSHAN HUALU AUTOMATIC
CONTROLS LIMITED (China)**
Sales & Manufacturing



Saginomiya (Thailand) Co., Ltd. (Thailand)
Sales & Manufacturing



SAGINOMIYA SEISAKUSHO, INC (Japan)
Headquarters



<https://www.saginomiya.co.jp/en/>



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.

2024.12

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