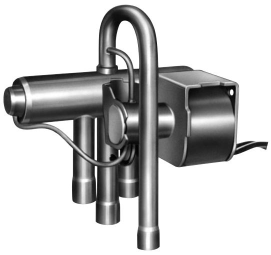
4–WAY REVERSING VALVES
High Volume OEM Item (Type STF)

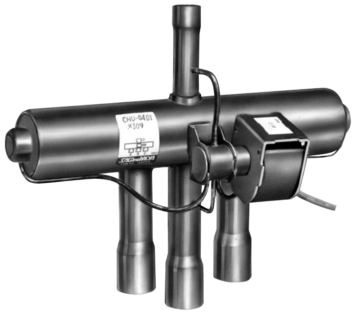
Type CHV, STF & VHV SAGInoMIYA

GENERAL DESCRIPTION

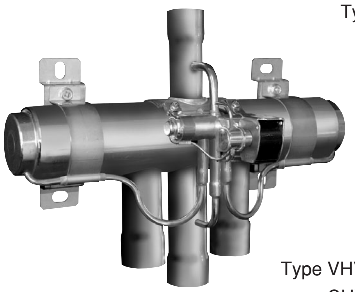
- Pilot operated 4-way reversing valves are suitable for heat pump applications on unitary, split system and window type air conditioners, etc.
- 4-way pilot valve adoption has an advantage of reliable changeover operation.
- Unique device for short cycle prevention is provided.
- Designed for instantaneous reversing and operations under small minimum pressure differential between the high and low side. Pressure drop across the valve, and valve leakage are minimized.
- Provided with drip proof resin encapsulated solenoid coil.
- Coil voltage: 100V. AC, 110V. AC, 200V. AC, 220V. AC
  230V. AC, 240V. AC 50/60 Hz

CE mark applicable (available upon request)
UL listed (available upon request)


Type STF–01, 02



Type STF–04, 07, 20


Type VHV–25, 30, 40, 50, 60
CHV–40, 50

TYPE NUMBER SELECTION (SPECIFICATIONS)

- Max. working pressure: 3.3MPa {33.7kgf/cm²} (Type CHV, STF–Z)
  4.15MPa {42.3kgf/cm²} (Type VHV,STF–G)
- Ambient temperature: −20 to 55°C
- Allowable fluid temperature: −20 to 120°C (STF–0101 to 1511)
  −20 to 130°C (STF–2011, CHV–2501 to 5007, VHV–2501 to 6001)
- Ambient humidity: Less than 95% R.H.

Catalog No.	Port Size (mm)	Nominal Capacity R22		O.P.D. (MPa) {kgf/cm²}		Connection (O.D.)		Wt. (kg)
		(kW)	(U.S.R.T.)	Max.	Min.	Discharge	Suction & Coils	
STF–0101Z	8	4.77	1.36	2.5 {25}	0.25 {2.5}	5/16"	3/8"	0.25
STF–0104Z		5.64	1.60					
STF–0201Z	11.1	9.11	2.59		0.35 {3.5}	3/8"	1/2"	0.37
STF–0202Z					0.25 {2.5}			
STF–0301Z	11.5	11.1	3.16		0.3 {3.0}	1/2"	5/8"	
STF–0401Z	15.5	20.2	5.75				3/4"	0.77
STF–0408Z								
STF–0712Z	20	34.3	9.76			3/4"	7/8"	1.32
STF–1511Z	23	38.2	10.9			7/8"	1-1/8"	1.55
STF–2011Z	24	48.8	13.9					
CHV–2501	28	73.8	21.0	2.5 {25}	0.3 {3.0}	1"	1–1/4"	3.0
CHV–3001	34	104.2	29.6			1–1/4"	1–1/2"	3.9
CHV–4002	40	145.4	41.4			1–1/2"	1–3/4"	7.9
CHV–5007	50	188.8	53.7				2–1/8"	7.7

- Nominal capacities are based on ΔP= 0.015 MPa {0.153 kgf/cm²}, condensing temperature=38°C, evaporating temperature=5°C, superheat=5°C. (R22)
- O.P.D.: Operating Pressure Differential (with air)

ECOTHERM

TORONTO, ON
TEL: (905) 737-2113
FAX: (905) 737-7319

MONTREAL, QC
TEL: (514) 685-5113
FAX: (514) 685-5119

VERNON, BC
TEL: (250) 549-9162
FAX: (250) 549-9182

www.ecotherm.ca 1-866-HVACMAX (482-2629) sales@ecotherm.ca

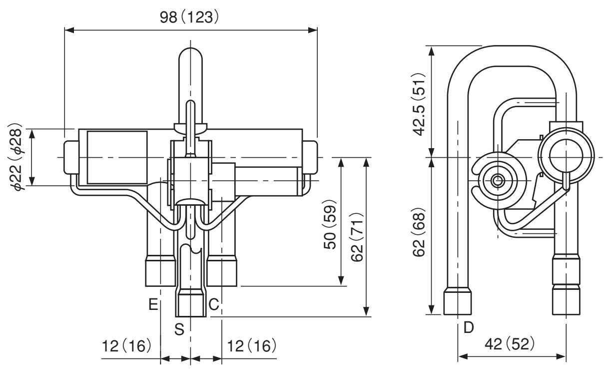
Catalog No.	Port Size (mm)	Nominal Capacity R410A		O.P.D. (MPa) {kgf/cm²}		Connection (O.D.)		Wt. (kg)
		(kW)	(U.S.R.T.)	Max.	Min.	Discharge	Suction & Coils	
STF–0101G	8	5.64	1.60	3.1 {31.6}	0.3 {3.1}	5/16"	3/8"	0.25
STF–0104G		6.67	1.90					
STF–0201G	11.1	10.8	3.07		0.35 {3.6}	3/8"	1/2"	0.37
STF–0202G					0.3 {3.1}			
STF–0301G	11.5	13.1	3.73			1/2"	5/8"	
STF–0401G	15.5	23.8	6.77				3/4"	0.77
STF–0408G								
STF–0712G	20	40.5	11.5			3/4"	7/8"	1.32
STF–1511G	23	45.1	12.8			7/8"	1–1/8"	1.55
STF–2011G	24	57.7	16.4					
VHV–2501	28	87.2	24.8			1"	1–1/4"	3.4
VHV–3001	34	123.1	35.0			1–1/4"	1–1/2"	4.7
VHV–4001	40	171.8	48.9			1–1/2"	1–3/4"	9.1
VHV–5001	50	214.1	60.9				2–1/8"	9.4
VHV–6001	60	367.5	104.5			I.D. 1–5/8"	2–5/8"	20.0

・Nominal capacities are based on ΔP＝ 0.015 MPa {0.153 kgf/cm²}, condensing temperature＝38°C, evaporating temperature＝5°C, superheat＝5°C. (R410A)

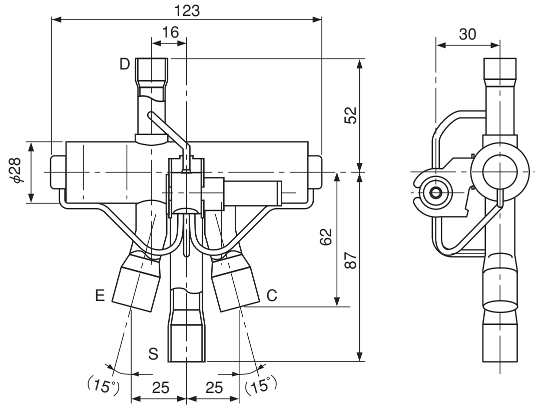
・O.P.D.: Operating Pressure Differential (with air)

DIMENSION

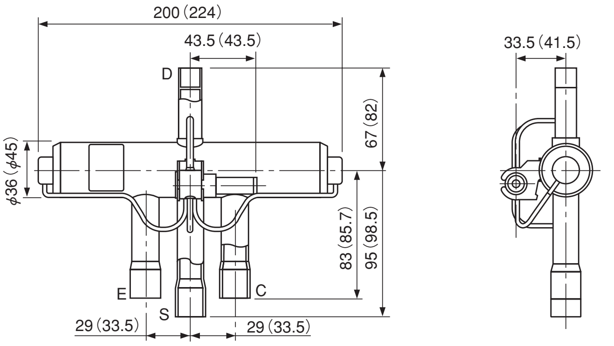
Type STF–0101Z (–0201Z, –0202Z), STF–0101G (–0201G, –0202G)



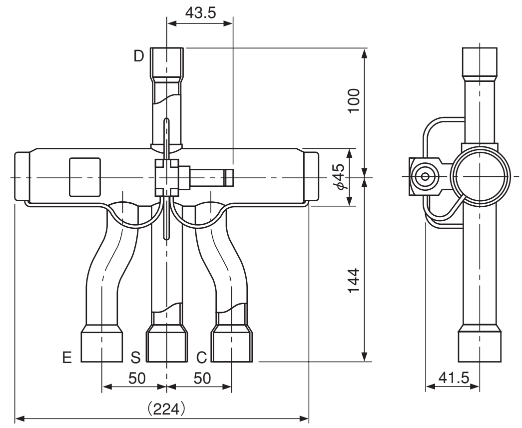
Type STF–0301Z, STF–0301G



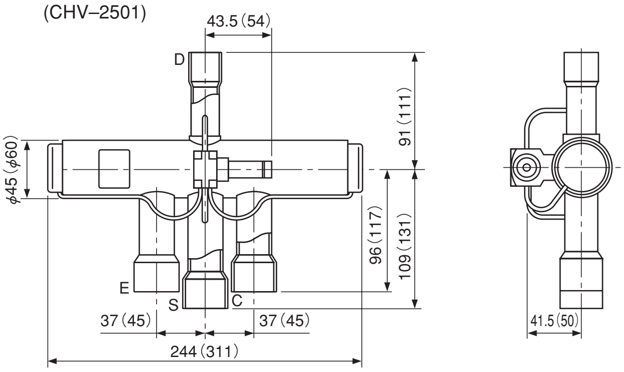
Type STF–0401Z, –0408Z (–0712), STF–0401G, –0408G (–0712G)



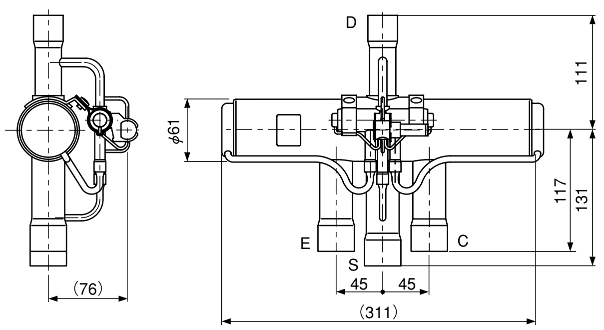
Type STF–1511Z, STF–1511G



Type STF–2011Z, –2011G
(CHV–2501)

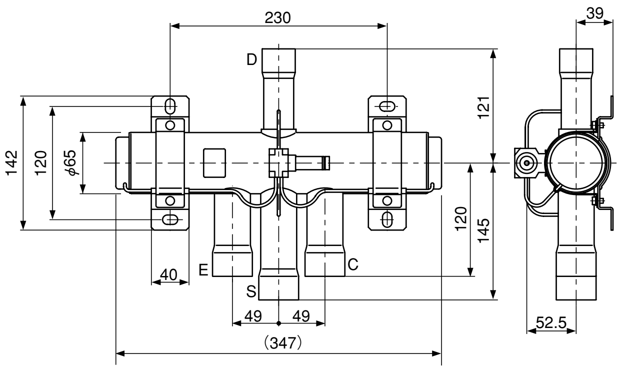


Type VHV–2501

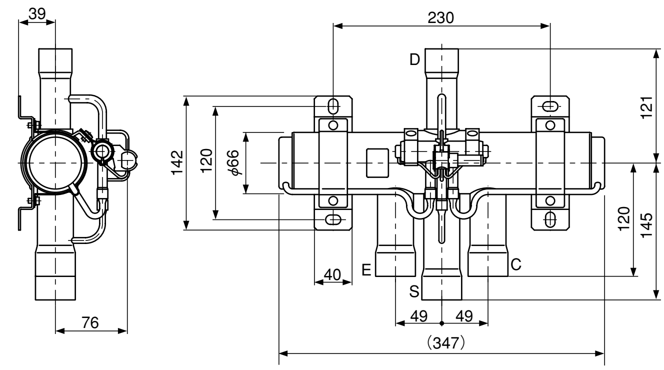


Unit: mm

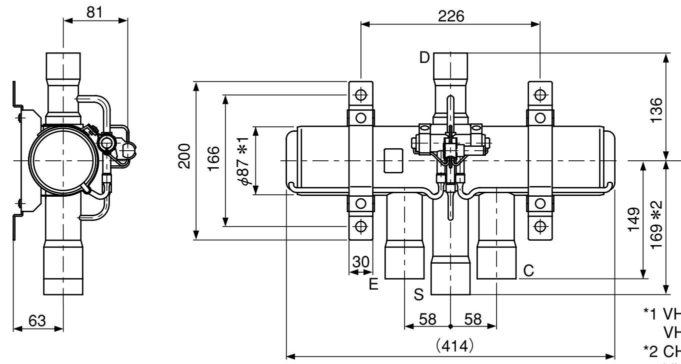
Type CHV–3001



Type VHV–3001

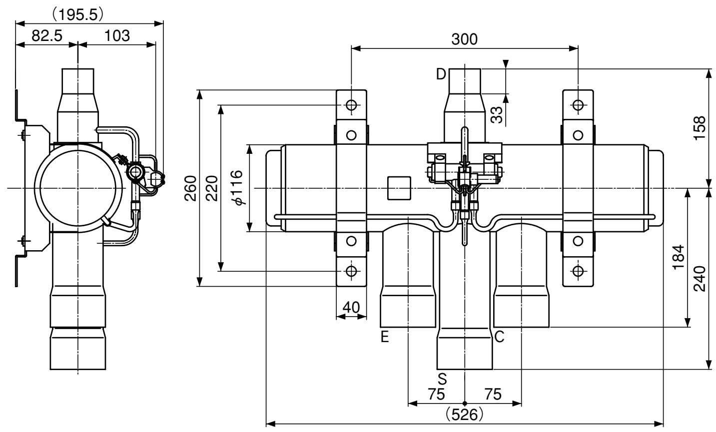


Type CHV–4002, –5007 VHV–4001, –5001



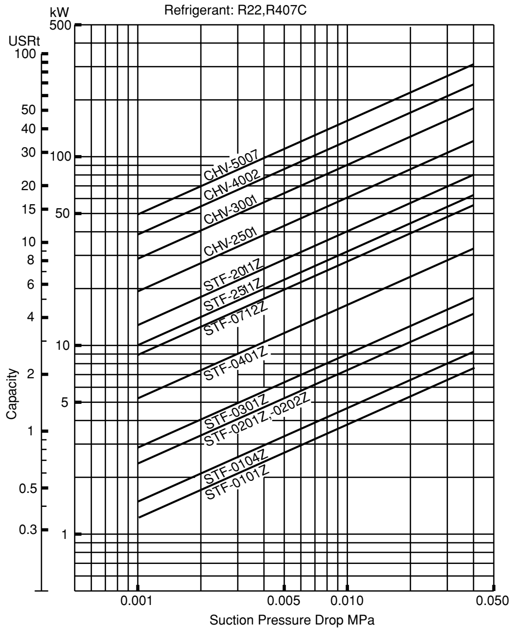
*1 VHV-4001
VHV-5001: ϕ88
*2 CHV-5007
VHV-5001: 202

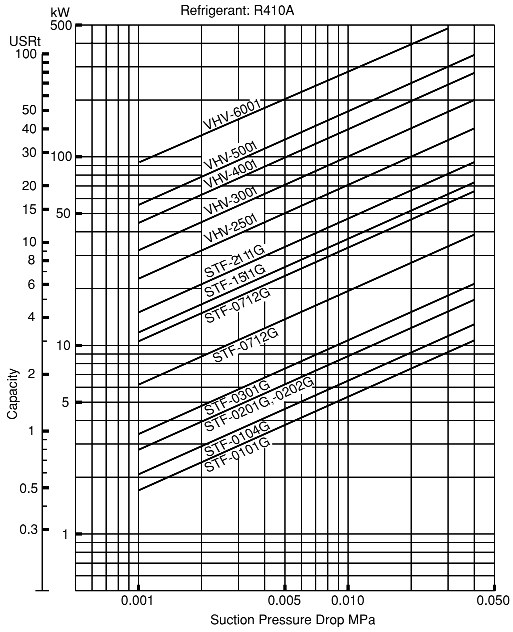
Type VHV–6001



Unit: mm

FLOW RATE (Capacity)





∗Flow Rate Conditions
Condensing temp.: 38°C
Evaporator temp.: 5°C
Superheat temp.: 5°C

∗Nominal capacity shown in the table is based on pressure drop across the valve
ΔP=0.015 MPa {0.153 kgf/cm²}