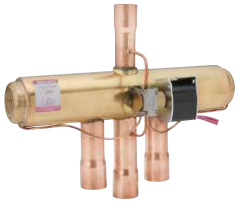
3-WAY SOLENOID VALVES / Type STF-C



Type STF-C

High Volume OEM Item

Drawings must be exchanged for purchase.
Please contact SAGINOMIYA for more details.

Coil sold separately

FEATURE

- 3-way valve with high flow rate.

APPLICATIONS

- Cooling units
- Packaged air conditioners
- VRF
- Chillers, etc.

COMMON SPECIFICATION

- Max. working pressure : 4.2 MPa
- Maximum Operating Pressure Differential : 3.1 MPa
- Minimum Operating Pressure Differential : 0.3 MPa
- Fluid Temperature : -20～120℃
- Ambient temperature : -20～55℃

DESCRIPTION OF CATALOG NO.

STF-C − 04 07
I II III

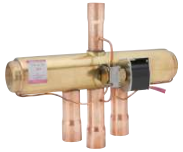
I	Type
II	Capacity
III	Serial number

TYPE NUMBER SELECTION

Catalog No.		＊1 Refrigerant	Port Size (mm)	Connection			＊2 Wt. (kg)	Remarks
				Style	Connection size			
Type	Model				High-pressure side	Low-pressure side		
STF-C	0407	R407C R410A R448A R449A R407H	15.5	Copper tube solder (ODF)	1/2"	3/4"	0.8	Dedicated to high-pressure gas lines in refrigeration circuits
	0708		20		3/4"	7/8"	1.35	

＊1 For other refrigerants, please contact us.
＊2 Valve only (without coil)

Type STF-C0407



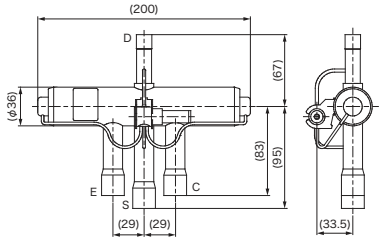
Type STF-C0708

COIL SELECTION

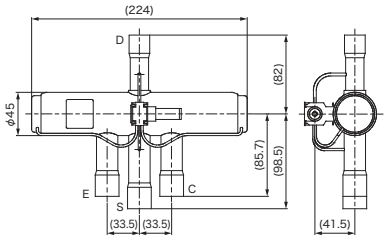
Coil Catalog No.		Rated Voltage	Frequency (Hz)	Tolerance (%)	Voltampere (VA)		Power consumption (W)	Insulation Class	＊2 Wt. (kg)
Type	Model				Running	Inrush			
STF	(G)□□□□	100V.AC	50/60	＋10 −15	13/10	39/30	7/6	Class B Molded ＊1	0.13
		200V.AC							
		110V.AC		± 10	11/9	33/27	6/6		
		220V.AC							
		230V.AC							
		240V.AC							

＊1 Compliant with IEC60085, 60335-2-40.
＊2 For lead wire length of 600mm.
・Use the STF-G type 4-way reversing valve coil.
・Coil is not included. Please specify coil voltage when ordering the valve body.
・Current (A) = Voltampere / Rated Voltage

DIMENSIONS



Type STF-C0407



Type STF-C0708

Unit : mm

Flow direction (flow path)

Flow	Power ON	Power OFF
	D → E	D → C

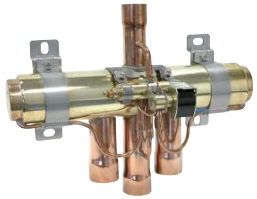
4-WAY REVERSING VALVES / Type STF

Type STF-H01

Type STF-H035

Type STF-H04

Type STF-H06



Type STF-30

Click or scan here for the capacity table. ⇒

URL : https://saginomiya.co.jp/en/auto/pdf/stf_capacity.pdf

High Volume OEM Item

Drawings must be exchanged for purchase.
Please contact SAGINOMIYA for more details.

Coil sold separately

FEATURE

- Used for a switch of cooling ⟷ heating , defrosting ⟷ heating.
- Standards : UL/CSA, CE, UKCA, VDE (Please contact us for details such as approved specifications.)

APPLICATIONS

- Room air conditioners
- Packaged air conditioners
- VRF
- Heat pump water heaters
- Chillers, etc.

COMMON SPECIFICATION

- Max. working pressure : 4.2MPa
- Fluid Temperature : -20～120℃＊
- Ambient temperature : -20～55℃

＊ Products up to 130° C are also available. Please contact us for details.

DESCRIPTION OF CATALOG NO.

$$\frac{\text{STF-H}}{\text{Ⅰ}} - \frac{01}{\text{Ⅱ}}\,\frac{67}{\text{Ⅲ}}$$

$$\frac{\text{STF}}{\text{Ⅰ}} - \frac{20}{\text{Ⅱ}}\,\frac{27}{\text{Ⅲ}}\,\frac{\text{G}}{\text{Ⅰ}}$$

Ⅰ	Type
Ⅱ	Capacity
Ⅲ	Serial number

TYPE NUMBER SELECTION

Catalog No.		＊1 Refrigerant	Port Size (mm)	Connection			O.P.D. (MPa)		＊2 Wt. (kg)
				Style	Connection size				
Type	Model				High-pressure side	Low-pressure side	Min.	Max.	
STF	H0167	R407C R410A R448A R449A R407H	8	Copper tube solder (ODF)	5/16"	3/8"	0.3	3.1	0.20
	H0267		11.1		3/8"	1/2"			0.32
	H0321		11.5		1/2"	5/8"			0.36
	H0351		14						0.39
	H0429		16			3/4"			0.69
	H0651		18.1						0.74
	H0731		20		3/4"	7/8"			1.21
	H0951		21.3						1.24
	H0954				7/8"	1-1/8"			1.55
	2027G		24						1.51
	2522G		28		1"	1-1/4"			3.6
	3019G		34		1-1/4"	1-1/2"			4.4
	4013G		40		1-1/2"	1-3/4"			8.4
	5020G		50			2-1/8"			8.5
	6009G		60	Copper tube solder (High-pressure side : ODM) (Low-pressure side : ODF)	1-5/8"	2-5/8"			21

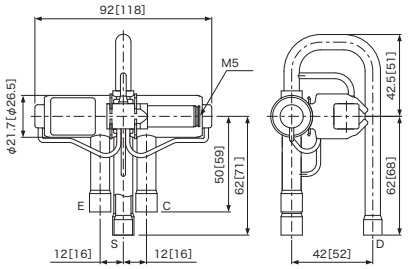
＊1 For other refrigerants, please contact us.
＊2 Valve only (without coil)

COIL SELECTION

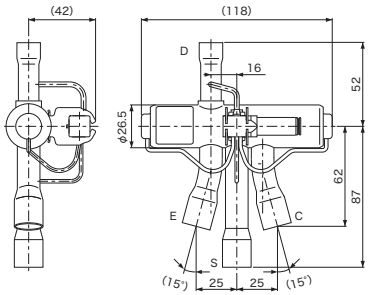
Valve body catalog No.		Rated Voltage	Frequency (Hz)	Tolerance (%)	Voltampere (VA)		Power consumption (W)	Insulation Class	＊2 Wt. (kg)
Type	Model				Running	Inrush			
STF	H□□□□	100V.AC	50/60	+10 −15	10/8	30/24	6/5	Class B Molded ＊1	0.13
		200V.AC							
		110V.AC		±10					
		220V.AC							
		230V.AC			11/9	33/27			
		240V.AC							
	(G)□□□□	100V.AC		+10 −15	13/10	39/30	7/6		
		200V.AC							
		110V.AC		±10	11/9	33/27	6/6		
		220V.AC							
		230V.AC							
		240V.AC							

＊1 Compliant with IEC60085, 60335-2-40.
＊2 For lead wire length of 600mm.
・Coil is not included. Please specify coil voltage when ordering the valve body.

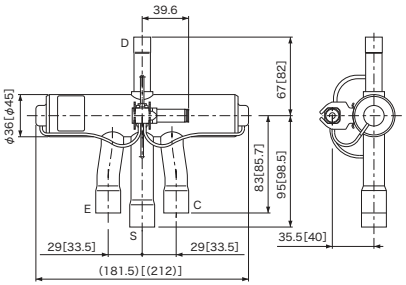
DIMENSIONS



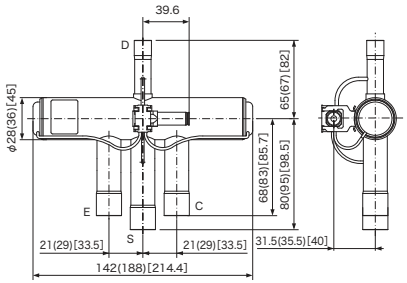
Type STF-H01
[Type STF-H02]



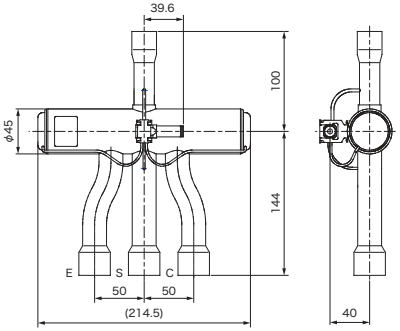
Type STF-H03



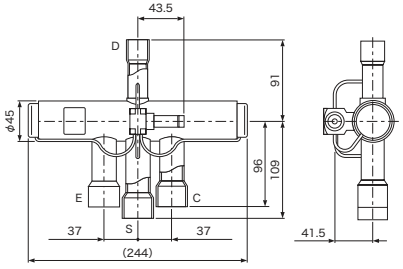
Type STF-H04
[Type STF-H07]



Type STF-H035
(Type STF-H06)
[Type STF-H09]

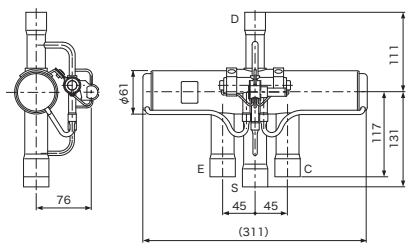


Type STF-H09

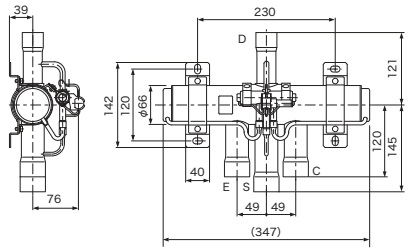


Type STF-20G

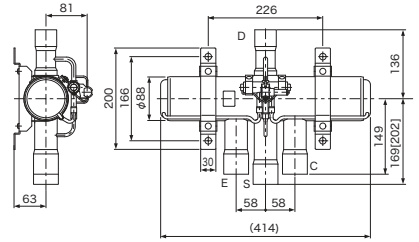
DIMENSIONS



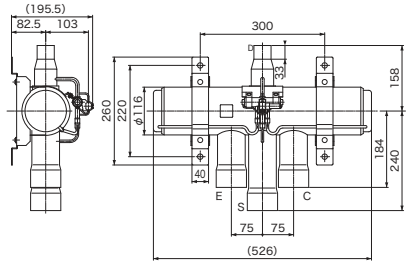
Type STF-25G



Type STF-30G



Type STF-40G
[Type STF-50G]



Type STF-60G

Unit : mm

Flow direction (flow path)

Flow	Power ON		Power OFF	
	D → E	C → S	D → C	E → S