

4-Way Reversing Valves

Type **STF**



4-Way Reversing Valves | Type STF

GENERAL DESCRIPTION

- Pilot-operated 4-Way reversing valves ideal for heat pump applications such as unitary, split-system, and window-type air conditioners.
- Reliable changeover operations.
- Designed to lower the minimum operating pressure differential between high and low sides.
- Minimized pressure drop and valve leakage.
- Applicable standard: CE, UL/cUL

SPECIFICATIONS

- Fluid Temperature: -4 to 248°F [-20 to 120°C] (STF-H, STF-01U15G to 07U12G)
-4 to 266°F [-20 to 130°C] (STF-15U11G to 60U9G)
- Ambient Temperature: -4 to 131°F [-20 to 55°C]
- Ambient Humidity: 95% R.H. or less

TYPE NUMBER SELECTION

STF-H : Compact & light weight model

Catalog No.	Refrigerant*1	Port Size (inch [mm])	Connection		Operating Pressure Differential (psi [MPa])		Wt.*2 (lb [kg])
			Style	Connection Size	Min.	Max.	
STF-H0351	R407C R410A R448A	0.55 [14]	Copper Tube Solder (ODF)	1/2"	44 [0.3]	449 [3.1]	0.86 [0.39]
STF-H0651	R449A R407H	0.71 [18.1]					1.63 [0.74]
STF-H0951	R32*3 R454B*3	0.84 [21.3]		3/4"			2.73 [1.24]

STF-G : Wide range model

Catalog No.	Refrigerant* ¹	Port Size (inch [mm])	Connection			Operating Pressure Differential (psi [MPa])		Wt.* ² (lb [kg])
			Style	Connection Size		Min.	Max.	
				High-Pressure Side	Low-Pressure Side			
STF-01U15G	R407C R410A R448A R449A R407H R32* ³ R454B* ³	0.31 [8]	Copper Tube Solder (ODF)	5/16"	3/8"	44 [0.3]	449 [3.1]	0.55 [0.25]
STF-02U39G		0.44 [11.1]		3/8"	1/2"			0.82 [0.37]
STF-03U24G		0.45 [11.5]		1/2"	5/8"			0.79 [0.36]
STF-04U32G		0.61 [15.5]			3/4"			1.72 [0.78]
STF-07U12G		0.79 [20]		3/4"	7/8"			2.67 [1.21]
STF-15U11G		0.91 [23]		7/8"	1-1/8"			3.09 [1.4]
STF-20U27G		0.94 [24]						3.33 [1.51]
STF-25U22G		1.10 [28]		1"	1-1/4"			7.94 [3.6]
STF-30U19G		1.34 [34]		1-1/4"	1-1/2"			9.70 [4.4]
STF-40U13G		1.57 [40]		1-1/2"	1-3/4"			18.52 [8.4]
STF-50U20G		1.97 [50]			2-1/8"			18.74 [8.5]
STF-60U9G				2.36 [60]	Copper Tube Solder (High-Pressure Side : ODM) (Low-Pressure Side : ODF)			1-5/8"

*1 For other refrigerants, please contact us.

*2 Weight is for the main body only (coil is not included).

*3 Consent to "Important Notice for Usage" is required when used with flammable refrigerants. Please contact us for details.

COIL SPECIFICATIONS

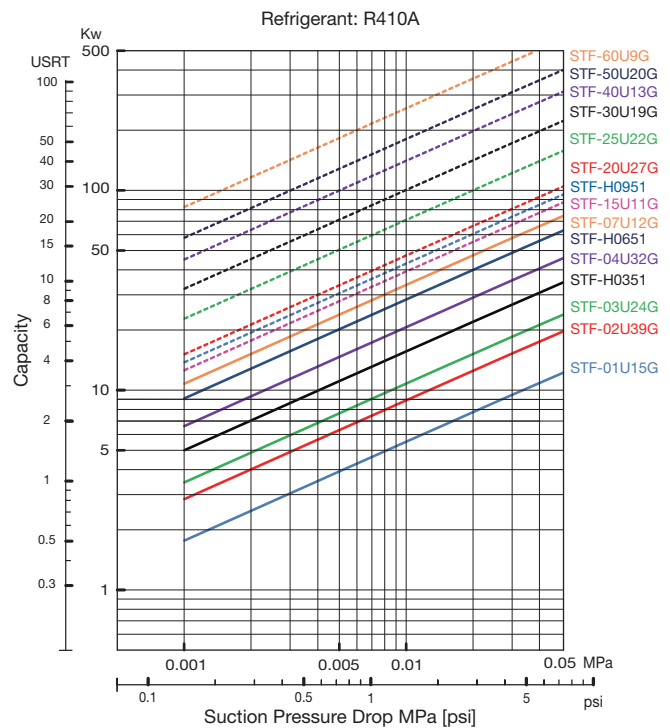
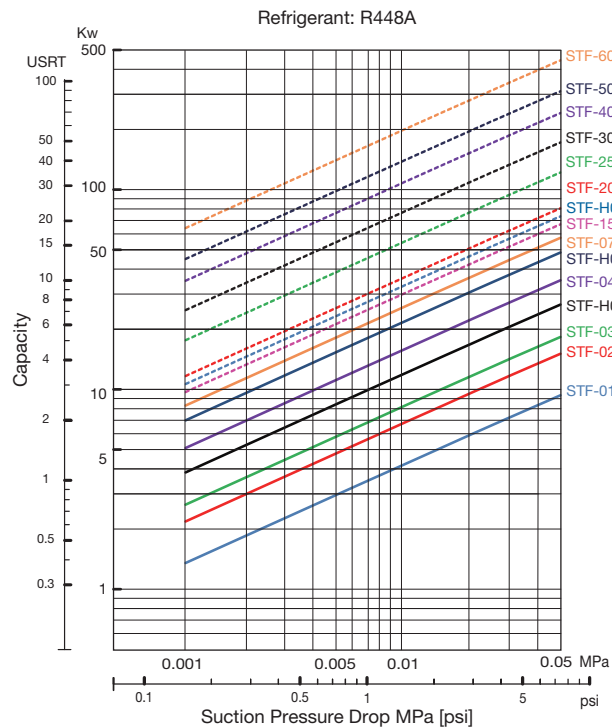
Catalog No. (Body)	Rated Voltage		Frequency	Tolerance (%)	Voltampere (VA)		Power Consumption (W)	Insulation Class	Wt.* ² (lb [kg])
					Running	Inrush			
STF-H□□□□	AC	100V	50/60Hz	+10 −15	10/8	30/24	6/5	Class B Molded* ¹	0.29 [0.13]
		200V							
		110V							
		220V		±10	11/9	33/27			
		230V							
		240V							
STF-□□□□G	AC	100V	50/60Hz	+10 −15	13/10	39/30	7/6		
		200V							
		110V		±10	11/9	33/27	6/6		
		220V							
		230V							
		240V							

*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.

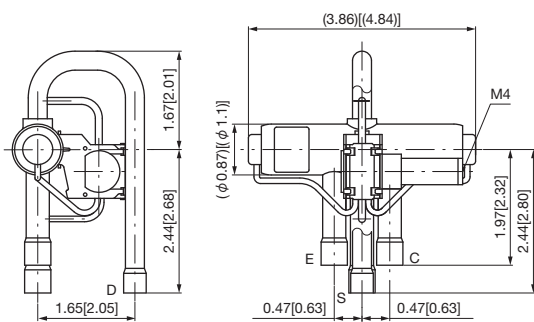
FLOW RATE (Capacity)



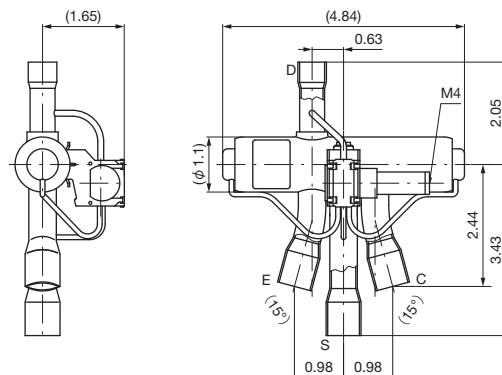
* Flow Rate Conditions
 Condensing Temp.: 100°F [38°C]
 Evaporator Temp.: 41°F [5°C]
 Superheat Temp.: 41°F [5°C]

DIMENSIONS

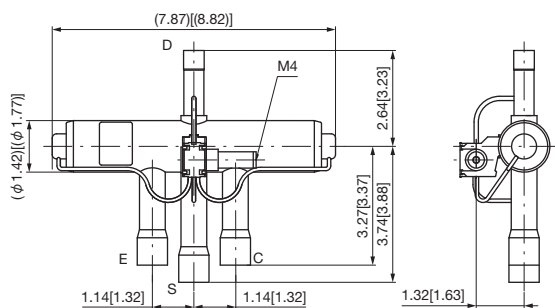
Type STF-01U15G [-02U39G]



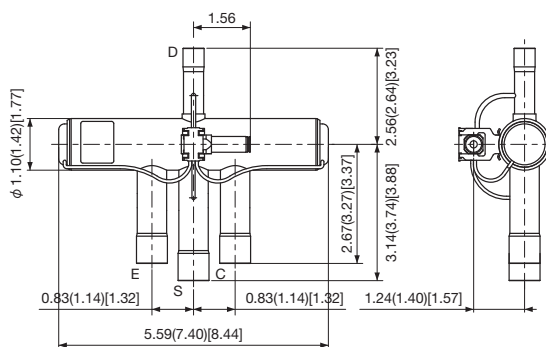
Type STF-03U24G



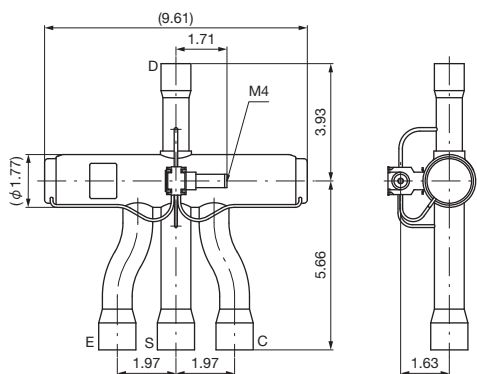
Type STF-04U32G [-07U12G]



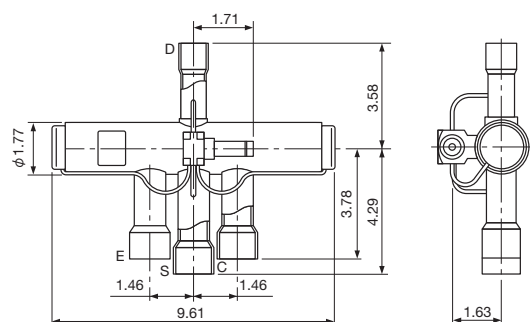
Type STF-H0351 (-H0651) [-H0951]



Type STF-15U11G



Type STF-20U27G

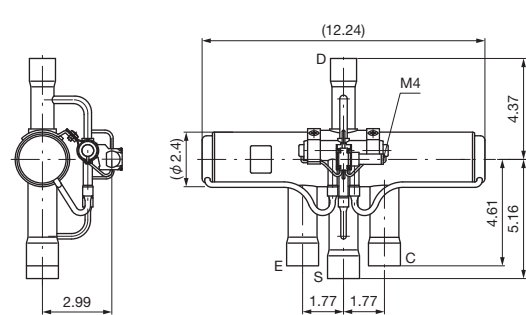


Unit : inch

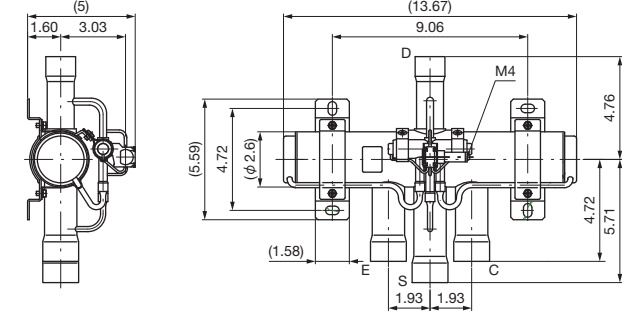
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DIMENSIONS

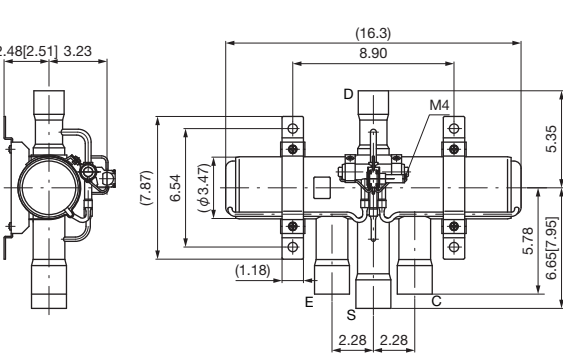
Type STF-25U22G



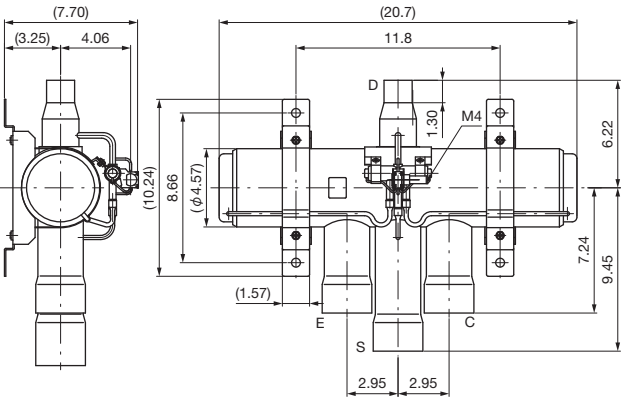
Type STF-30U19G



Type STF-40U13G [-50U20G]



Type STF-60U9G



Unit : inch

FLOW DIRECTION (Flow Path)

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

**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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