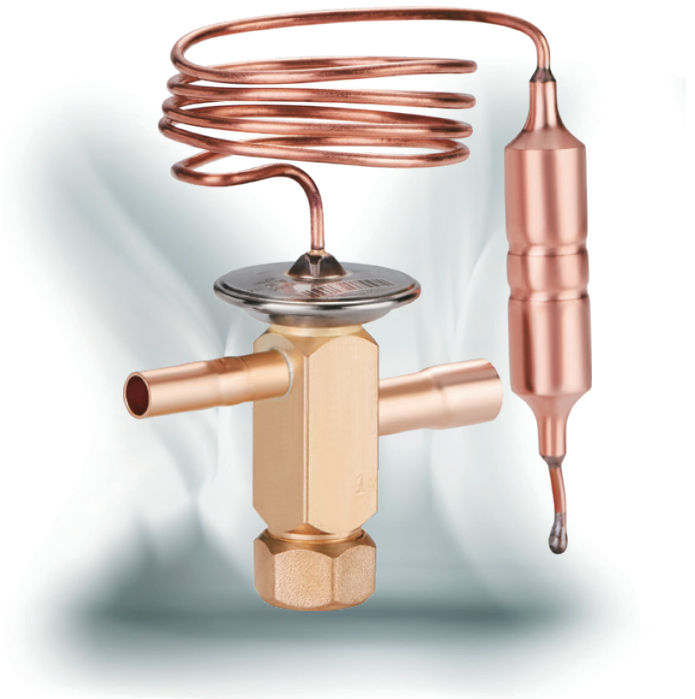


RFGB SERIES

Thermostatic Expansion Valve

RFGB series thermostatic expansion valves are used to adjust mass flow of refrigerant into the evaporator while controlling the refrigerant's superheat at the outlet of the evaporator. They can be used for various refrigerants under all working conditions. Typical applications are refrigeration systems like commercial refrigerators and freezers, icemakers, dehumidifiers as well as air conditioners at various evaporation temperature.

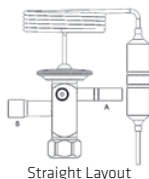
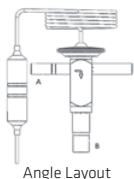


FEATURES

- COMPACT DESIGN WITH BUILD-IN ORIFICE
- VALVES WITH MOP FUNCTION CAN BE PROVIDED TO ASSURE RELIABLE COMPRESSOR OPERATION
- SUITABLE FOR OEM CUSTOMIZATION OF LARGER CAPACITY
- RELIABLE AND CONSISTENT PERFORMANCE OF SUPERHEAT CONTROL

GENERAL SPECIFICATION

- Applicable for all common HCFC, HFC, HC refrigerants such as: R22, R134a, R407C, R507, R290
- Ambient temperature min./max.: -35/+55°C
- Max. operating pressure PS: 3,5 MPa
- Installation position: - Preferably valve head upwards
- Flow direction from inlet A to outlet B
- Certifications: UL/CSA and PED declaration

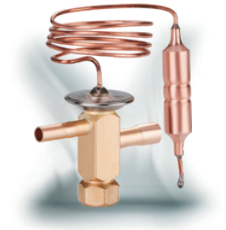


TECHNICAL PARAMETERS

- RFGB valve available in straight shape with adjustable superheat on site
- RFGB valve available in angle shape with fixed factory super heat settings
- Both versions are available with the following solder connections
 - Imperial: Inlet 1/4" ODF/ Outlet 3/8" ODF or Inlet 3/8" ODF/ Outlet 1/2" ODF
 - Metric: Inlet 6mm ODF/Outlet 10mm ODF or Inlet 10mm ODF/Outlet 12mm ODF
- Equalization port available as option:
 - Imperial: 1/4" ODF (available for models with imperial solder connections)
 - Metric: 6mm ODF (available for models with metric solder connections)
- Capillary tube length 800mm
- The length can be customized

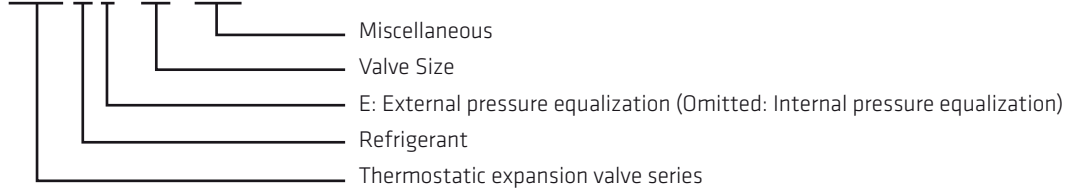
RFGB SERIES

Thermostatic Expansion Valve



MODEL DESIGNATION LEGEND

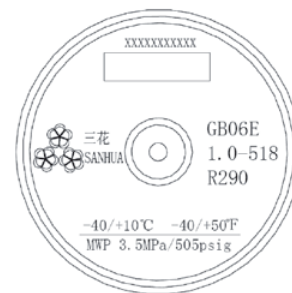
RFGB 06 E - 1.0 - XXX

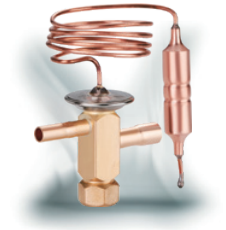


Refrigerant	
Code	Description
01	R22
02	R407C
03	R404A/R507
04	R134a
06	R290
11	R452A

POWER HEAD PRINTING INSTRUCTIONS

Code	Description
GB06E-1.0-518	Model
-40/+10°C	Evaporating temperature (Celsius)
-40/+50°F	Evaporating temperature (Fahrenheit)
R290	Medium
MWP 3.5Mpa	MOP (Units: MPa)
MWP 505psig	MOP (Unitss: Psig)





TECHNICAL DATA

Nominal Cooling Capacities ¹⁾

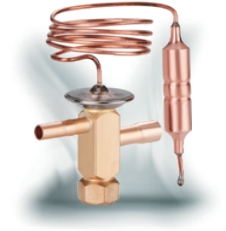
R22			R407C			R404A / R507			R134a			R290		
MOP: 3.5 MPa			MOP: 3.5 MPa			MOP: 3.5 MPa			MOP: 3.5 MPa			MOP: 3.5 MPa		
Model Model ²⁾	Capacity		Model Model ²⁾	Capacity		Model Model ²⁾	Capacity		Model Model ²⁾	Capacity		Model Model ²⁾	Capacity	
	[USRT]	[kW]		[USRT]	[kW]		[USRT]	[kW]		[USRT]	[kW]		[USRT]	[kW]
RFGB01-0	0.6	0.17	RFGB02-0	0.19	0.67	RFGB03-0	0.5	0.13	RFGB04-0	0.4	0.12	RFGB06-0	0.6	0.17
RFGB01E-0			RFGB02E-0			RFGB03E-0			RFGB04E-0			RFGB06E-0		
RFGB 01-1	0.35	1.2	RFGB 02-1	0.38	1.3	RFGB 03-1	0.25	0.9	RFGB 04-1	0.23	0.8	RFGB06-1	0.35	1.2
RFGB 01E-1			RFGB 02E-1			RFGB 03E-1			RFGB 04E-1			RFGB06E-1		
RFGB 01-2	0.7	2.5	RFGB 02-2	0.76	2.7	RFGB 03-2	0.5	1.8	RFGB 04-2	0.44	1.5	RFGB06-2	0.7	2.5
RFGB 01E-2			RFGB 02E-2			RFGB 03E-2			RFGB 04E-2			RFGB06E-2		
RFGB 01-3	1.0	3.5	RFGB 02-3	1.1	3.9	RFGB 03-3	0.7	2.5	RFGB 04-3	0.63	2.2	RFGB06-3	1	3.5
RFGB 01E-3			RFGB 02E-3			RFGB 03E-3			RFGB 04E-3			RFGB06E-3		
RFGB 01-4	1.5	5.3	RFGB 02-4	1.6	5.6	RFGB 03-4	1.0	3.5	RFGB 04-4	0.94	3.3	RFGB06-4	1.5	5.3
RFGB 01E-4			RFGB 02E-4			RFGB 03E-4			RFGB 04E-4			RFGB06E-4		
RFGB 01-5	2.0	7	RFGB 02-5	2.2	7.7	RFGB 03-5	1.4	4.9	RFGB 04-5	1.3	4.6	RFGB06-5	2	7
RFGB 01E-5			RFGB 02E-5			RFGB 03E-5			RFGB 04E-5			RFGB06E-5		

Note:

- 1) Nominal working conditions: Condensing temperature: 38°C; evaporating temperature +4.4°C; Liquid temperature 37°C; static superheat 3.5K
- 2) Optional industrial package

RFGB SERIES

Thermostatic Expansion Valve





MODEL LIST

Evaporation Temp. Range to = +10...-40°C ¹⁾

Valve Body All Refrigerants	Capacity Size All Size	Valve Shape Straight/ Angle	Connection Size (Solder ODF)					
			Inlet		Outlet		Pressure Equal	
			[mm]	[inch]	[mm]	[inch]	[mm]	[inch]
RFGB 01- RFGB 02- RFGB 03- RFGB 04- RFGB 06-	0- 1- 2- 3- 4- 5-	S-	6	-	10	-	-	-
			10	-	12	-	-	-
			-	1/4	-	3/8	-	-
			-	3/8	-	1/2	-	-
		A-	6	-	10	-	-	-
			10	-	12	-	-	-
			-	1/4	-	3/8	-	-
			-	3/8	-	1/2	-	-
			6	-	10	-	6	-
			10	-	12	-	6	-
RFGB 01-E RFGB 02-E RFGB 03-E RFGB 04-E RFGB 06-E	0- 1- 2- 3- 4- 5-	S-	6	-	10	-	6	-
			10	-	12	-	6	-
			-	1/4	-	3/8	-	1/4
			-	3/8	-	1/2	-	1/4
		A-	6	-	10	-	6	-
			10	-	12	-	6	-
			-	1/4	-	3/8	-	1/4
			-	3/8	-	1/2	-	1/4

Note:

- 1) Different evaporation temperature range on request
- 2) MOP function on request

Strap		Tube diameter: 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1"
Clip		Tube diameter: 1/4", 3/8", 1/2"