



DECLARATION OF CONFORMITY:
Pressure Equipment
Directive 97/23/EC

Thermostatic Expansion Valve

REFRIGERANT
R22, R134a, R404A,
R407C, R410A, R507

LARGE TEMPERATURE
SERVICE RANGE
-40°C to +70°C

PS
45 bar

RFGD SERIES



RFGD 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 temperatures.

TECHNICAL DATA Nominal Capacities¹

R22 PS: 2,8 MPa			R407C ²⁾ PS: 2,8 MPa			R404A / R507A PS: 3,5 MPa			R134a PS: 2,1 MPa			R410A PS: 4,5 MPa		
Model Name ³⁾	Capacity		Model Name ³⁾	Capacity		Model Name ³⁾	Capacity		Model Name ³⁾	Capacity		Model Name ³⁾	Capacity	
	[USRT]	[kW]		[USRT]	[kW]		[USRT]	[kW]		[USRT]	[kW]		[USRT]	[kW]
RFGD 01-1	3,0	10,6	RFGD 02-1	3,1	10,9	RFGD 03-1	2,0	7,0	RFGD 04-1	1,8	6,3	RFGD 05-1	3,5	12,3
RFGD 01E-1			RFGD 02E-1			RFGD 03E-1			RFGD 04E-1			RFGD 05E-1		
RFGD 01-2	4,0	14,1	RFGD 02-2	4,2	14,8	RFGD 03-2	2,8	9,8	RFGD 04-2	2,5	8,8	RFGD 05-2	4,5	15,8
RFGD 01E-2			RFGD 02E-2			RFGD 03E-2			RFGD 04E-2			RFGD 05E-2		
RFGD 01-3	6,0	21,1	RFGD 02-3	6,3	22,2	RFGD 03-3	4,2	14,8	RFGD 04-3	3,6	12,7	RFGD 05-3	7,0	24,6
RFGD 01E-3			RFGD 02E-3			RFGD 03E-3			RFGD 04E-3			RFGD 05E-3		
RFGD 01-4	7,5	26,4	RFGD 02-4	8,1	28,5	RFGD 03-4	5,4	19,0	RFGD 04-4	4,6	16,2	RFGD 05-4	8,6	30,2
RFGD 01E-4			RFGD 02E-4			RFGD 03E-4			RFGD 04E-4			RFGD 05E-4		
RFGD 01-5	9,0	31,7	RFGD 02-5	9,4	33,1	RFGD 03-5	6,4	22,5	RFGD 04-5	5,5	19,3	RFGD 05-5	10,6	37,3
RFGD 01E-5			RFGD 02E-5			RFGD 03E-5			RFGD 04E-5			RFGD 05E-5		
RFGD 01-6	11,0	38,7	RFGD 02-6	11,7	41,1	RFGD 03-6	7,8	27,4	RFGD 04-6	6,8	23,9	RFGD 05-6	12,8	45,0
RFGD 01E-6			RFGD 02E-6			RFGD 03E-6			RFGD 04E-6			RFGD 05E-6		

Note: 1) Nominal capacities referred at the following working conditions:

Condensing temperature: 38°C; evaporating temperature +4.4°C; Liquid temperature 37°C Static Super Heating: 3,5K

2) R407C data based on dew point conditions

3) Model Name in this table is referred to the first 4 positions of the model designation

RFGD STANDARD RANGE B) Models with Imperial Connections

Ref.	MWP [MPa]	Valve Body	Capacity Size All Sizes	Connections IN x OUT		Pressure Equal. [inch]	Product Number	Product Number
				Imperial	[inch]			
						Model Name		
R407C	2.8	RFGD 02E	1 -	3	3/8 x 5/8	1/4	RFGD 02E-3.1-33	RFG-25037
			2 -	4	1/2 x 7/8	1/4	RFGD 02E-4.2-34	RFG-25038
			3 -	4	1/2 x 7/8	1/4	RFGD 02E-6.3-35	RFG-25039
			4 -	4	1/2 x 7/8	1/4	RFGD 02E-8.1-36	RFG-25040
			5 -	5	5/8 x 7/8	1/4	RFGD 02E-9.4-37	RFG-25041
			6 -	5	5/8 x 7/8	1/4	RFGD 02E-11.7-38	RFG-25042
R404A / R507	3.5	RFGD 03E	1 -	3	3/8 x 5/8	1/4	RFGD 03E-2.0-39	RFG-25043
			2 -	4	1/2 x 7/8	1/4	RFGD 03E-2.8-40	RFG-25044
			3 -	4	1/2 x 7/8	1/4	RFGD 03E-4.2-41	RFG-25045
			4 -	4	1/2 x 7/8	1/4	RFGD 03E-5.4-42	RFG-25046
			5 -	5	5/8 x 7/8	1/4	RFGD 03E-6.4-43	RFG-25047
			6 -	5	5/8 x 7/8	1/4	RFGD 03E-7.8-44	RFG-25048
R134a	2.1	RFGD 04E	1 -	3	3/8 x 5/8	1/4	RFGD 04E-1.8-01	RFG-25049
			2 -	4	1/2 x 7/8	1/4	RFGD 04E-2.5-02	RFG-25050
			3 -	4	1/2 x 7/8	1/4	RFGD 04E-3.6-03	RFG-25051
			4 -	4	1/2 x 7/8	1/4	RFGD 04E-4.6-04	RFG-25052
			5 -	5	5/8 x 7/8	1/4	RFGD 04E-5.5-49	RFG-25053
			6 -	5	5/8 x 7/8	1/4	RFGD 04E-6.8-32	RFG-25054
R410A	4.5	RFGD 05E	1 -	3	3/8 x 5/8	1/4	RFGD 05E-3.5-22	RFG-25055
			2 -	4	1/2 x 7/8	1/4	RFGD 05E-4.5-23	RFG-25056
			3 -	4	1/2 x 7/8	1/4	RFGD 05E-7.0-24	RFG-25057
			4 -	4	1/2 x 7/8	1/4	RFGD 05E-8.6-25	RFG-25058
			5 -	5	5/8 x 7/8	1/4	RFGD 05E-10.6-27	RFG-25059
			6 -	5	5/8 x 7/8	1/4	RFGD 05E-12.8-26	RFG-25060

Ball Valve

REFRIGERANT
R22, R134a, R404A, R407C, R410A, R507A
Bi-directional, full port

LARGE TEMPERATURE
SERVICE RANGE
-40°C to +120°C

PS
45 bar



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SBV SERIES



The ball valve of series SBV is applicable for commercial air conditioner, freezing or deep-freezing equipment or other refrigeration circuits in order to open and to shut off inner flow path by operating the valve stem. It can also be used as service valve for vacuum pumping and refrigerant injection etc.

Part Number	Connection (inch)	Connection (mm)	Kv (m³/h)
SBV-13001	-	6	1,9
SBV-13002	1/4	-	1,9
SBV-13037	3/8	-	5,5
SBV-13003	-	10	5,5
SBV-13004	-	12	10,2
SBV-13005	1/2	-	10,2
SBV-13006	-	15	13,2
SBV-13007	5/8	16	13,8
SBV-13008	-	18	19,5
SBV-13009	3/4	-	19,5
SBV-13010	7/8	22	28
SBV-13011	-	28	51,5
SBV-13012	1 1/8	-	51,5
SBV-13013	1 3/8	35	80
SBV-13038	1 5/8	-	119,8
SBV-13014	-	42	119,8
SBV-13015	2 1/8	54	225
SBV-13016	-	64	225
SBV-13017	2 5/8	-	305
SBV-13018	3 1/8	80	635
SBV-13041	3 5/8	92	805
SBV-13046	4 1/8	105	950
SBV-13042	4 1/4	108	950

Part Number	Connection (inch)	Connection (mm)	Kv (m³/h)
SBV-13019	-	6	1,9
SBV-13020	1/4	-	1,9
SBV-13039	3/8	-	5,5
SBV-13021	-	10	5,5
SBV-13022	-	12	10,2
SBV-13023	1/2	-	10,2
SBV-13024	-	15	13,2
SBV-13025	5/8	16	13,8
SBV-13026	-	18	19,5
SBV-13027	3/4	-	19,5
SBV-13028	7/8	22	28
SBV-13029	-	28	51,5
SBV-13030	1 1/8	-	51,5
SBV-13031	1 3/8	35	80
SBV-13040	1 5/8	-	119,8
SBV-13032	-	42	119,8
SBV-13033	2 1/8	54	225
SBV-13034	-	64	225
SBV-13035	2 5/8	-	305
SBV-13036	3 1/8	80	635
SBV-13043	3 5/8	92	805
SBV-13045	4 1/8	105	950
SBV-13044	4 1/4	108	950

CE RoHS PED & UL