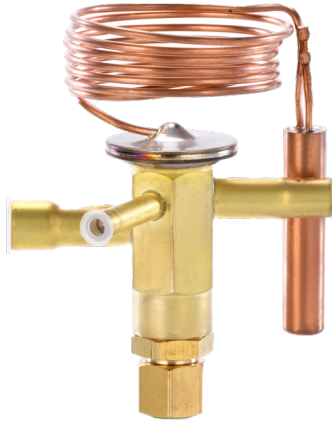


Thermostatic Expansion Valves



CV Series - Check Valve



Description

The Ranco® CV series Thermostatic Expansion Valves (TXV) are designed with built-in check valves, eliminating the need for a separate check valve in the system. This TXV is used to adjust the refrigerant supply volume in the evaporator by sensing the superheat degree of the evaporator outlet through a thermal sensing bulb and external (internal) balance.

Features and Benefits

- 2 optional designs: adjustable and non-adjustable structure
- Power head uses continuous laser welding, providing high welding strength and a long diaphragm life
- Available back pressure capability
- Available Maximum Operating Pressure (MOP) function
- Built-in check valve
- Standard capillary tube length: 60 in. (1.5 m)
- UL and CE Certified

Applications

- Commercial refrigeration
- Air conditioning
- Split systems
- Heat pump systems

1 Year
Limited
Warranty



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Specifications

Applicable refrigerants	R410A and R22
Maximum working pressure	667 PSI (4.6 MPa)
Medium temperature range	-40°F to 158°F (-40°C to 70°C)
Ambient temperature range	-22°F to 131°F (-30°C to 55°C)
Maximum thermal bulb temperature	212°F (100°C)
Maximum valve body temperature	230°F (110°C)
Static state superheat degree adjustment change	0K to 8K
Static state superheat degree setting	4K
Relative humidity	95%

Replacement Information

Ranco Part Numbers	Danfoss (TR)	Sporlan (RC)	Sanhua (RFGF)	Nominal Capacity (tons)	Connection Type	Inlet (inch)	Outlet (inch)	External Pressure Equalizer (inch)	Capillary Tube Length Solder (inch)	Refrigerants
RTXVCV-1S-2		RCVE-1-GA	RFGF01E-1.0-401	1	Solder	3/8" ODF	1/2" ODF	1/4" ODF	60	R-22
RTXVCV-2S-2		RCVE-2-GA	RFGF01E-2.0-402	2						
RTXVCV-3S-2	067L5855	RCVE-3-GA	RFGF01E-3.0-403	3						
RTXVCV-4S-2	067L5856	RCVE-4-GA	RFGF01E-4.0-404	4						
RTXVCV-5S-2	067L5857	RCVE-5-GA	RFGF01E-5.0-405	5						
RTXVCV-6S-2	067L5858	RCVE-6-GA	RFGF01E-6.0-406	6						
RTXVCV-1R-2			RFGF01E-1.0-801	1	Chatleff	Chatleff (Male)	Chatleff (Female)	1/8" OD x 24 with 1/4" SAE Female Flare		
RTXVCV-2R-2			RFGF01E-2.0-802	2						
RTXVCV-3R-2			RFGF01E-3.0-803	3						
RTXVCV-4R-2			RFGF01E-4.0-804	4						
RTXVCV-5R-2			RFGF01E-5.0-805	5						
RTXVCV-6R-2			RFGF01E-6.0-806	6						
RTXVCV-1S-4		RCZE-1-GA	RFGF05E-1.0-411	1	Solder	3/8" ODF	1/2" ODF	1/4" ODF	60	R-410A
RTXVCV-1.5S-4		RCZE-1-1/2-GA	RFGF05E-1.5-410	1.5						
RTXVCV-2S-4		RCZE-2-GA	RFGF05E-2.0-412	2						
RTXVCV-3S-4	067L5955	RCZE-3-GA	RFGF05E-3.0-413	3						
RTXVCV-4S-4	067L5956	RCZE-4-GA	RFGF05E-4.0-414	4						
RTXVCV-5S-4	067L5957	RCZE-5-GA	RFGF05E-5.0-415	5						
RTXVCV-6S-4	067L5958	RCZE-6-GA	RFGF05E-6.0-416	6						
RTXVCV-7S-4	067L5959		RFGF05E-7.0-417	7	Chatleff	Chatleff (Male)	Chatleff (Female)	1/8" OD x 24 with 1/4" SAE Female Flare		
RTXVCV-1R-4			RFGF05E-1.0-811	1						
RTXVCV-1.5R-4			RFGF05E-1.5-810	1.5						
RTXVCV-2R-4			RFGF05E-2.0-812	2						
RTXVCV-3R-4			RFGF05E-3.0-813	3						
RTXVCV-4R-4			RFGF05E-4.0-814	4						
RTXVCV-5R-4			RFGF05E-5.0-815	5						
RTXVCV-6R-4			RFGF05E-6.0-816	6						
RTXVCV-7R-4			RFGF05E-7.0-817	7						

Ranco Part Numbers	Danfoss (TR)	Sporlan (ER)	Sanhua	Nominal Capacity (tons)	Connections, ODF Solder (inch)			Capillary Tube Length (inch)	MOP (Thermostatic Charge)	Refrigerants
					Inlet	Outlet	Equalizer			
RTXVCV-1-2			RFGK01E-1.0-401	1	1/4 ODF	1/2 ODF	1/4 ODF	60	NA	R-22
RTXVCV-1A-2		ERVE-1	RFGK01E-1.0-402	1	3/8 ODF					
RTXVCV-1.5A-2		ERVE-1-1/2	RFGK01E-1.5-403	1.5						
RTXVCV-2.5A-2		ERVE-2	RFGK01E-2.0-404	2						
RTXVCV-3C-2	067L5855	ERVE-3	RFGK01E-3.0-405	3	1/2 ODF	5/8 ODF				
RTXVCV-3A-2		ERVE-3	RFGK01E-3.0-406	3	3/8 ODF	1/2 ODF				
RTXVCV-4C-2	067L5856	ERVE-4	RFGK01E-4.0-407	4	1/2 ODF	5/8 ODF				
RTXVCV-4A-2		ERVE-4	RFGK01E-4.0-408	4	3/8 ODF	1/2 ODF				
RTXVCV-5C-2	067L5857	ERVE-5	RFGK01E-5.0-410	5	1/2 ODF	5/8 ODF				
RTXVCV-5A-2		ERVE-5	RFGK01E-5.0-411	5	5/8 ODF					
RTXVCV-6A-2		ERVE-6	RFGK01E-6.0-413	6	5/8 ODF					
RTXVCV-1B-2		ERVE-1	RFGK01E-1.0-416	1.0	3/8 ODF	1/2 ODF	1/4 ODF	60	100 psig (@60°F)	R-22
RTXVCV-1.5B-2		ERVE-1-1/2	RFGK01E-1.5-417	1.5						
RTXVCV-2.5B-2		ERVE-2	RFGK01E-2.0-418	2.0						
RTXVCV-3-2	067L5855	ERVE-3	RFGK01E-3.0-419	3.0						
RTXVCV-3B-2		ERVE-3	RFGK01E-3.0-420	3.0	1/2 ODF	5/8 ODF				
RTXVCV-4-2	067L5856	ERVE-4	RFGK01E-4.0-421	4.0	3/8 ODF	1/2 ODF				
RTXVCV-4B-2		ERVE-4	RFGK01E-4.0-422	4.0	1/2 ODF	5/8 ODF				
RTXVCV-5-2	067L5857	ERVE-5	RFGK01E-5.0-424	5.0	3/8 ODF	1/2 ODF				
RTXVCV-5B-2		ERVE-5	RFGK01E-5.0-425	5.0	1/2 ODF	5/8 ODF				
RTXVCV-6B-2		ERVE-6	RFGK01E-6.0-427	6.0		5/8 ODF				
RTXVCV-1C-4		ERZE-1	RFGK05E-1.0-445	1.0	3/8 ODF	1/2 ODF			1/4 ODF	
RTXVCV-1.5G-4		ERZE-1-1/2	RFGK05E-1.5-446	1.5						
RTXVCV-2B-4		ERZE-2	RFGK05E-2.0-447	2.0						
RTXVCV-3B-4	067L5955	ERZE-3	RFGK05E-3.0-448	3.0						
RTXVCV-4-4	067L5956	ERZE-4	RFGK05E-4.0-449	4.0						
RTXVCV-5-4	067L5957	ERZE-5	RFGK05E-5.0-450	5.0	1/2 ODF	5/8 ODF				
RTXVCV-6H-4		ERZE-6	RFGK05E-6.0-451	6.0						
RTXVCV-7D-4			RFGK05E-7.0-452	7.0						