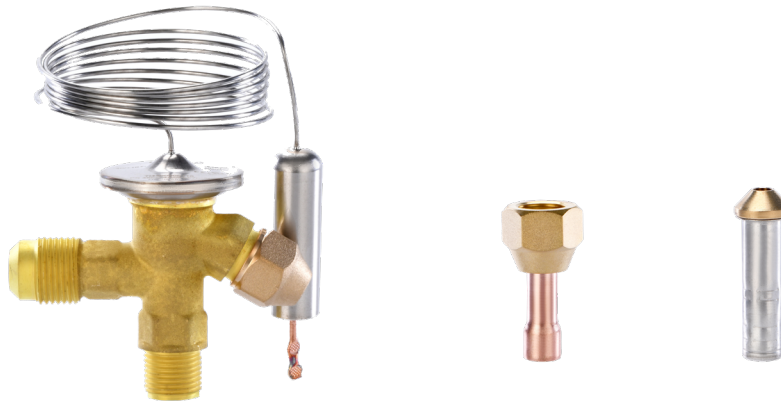


Thermostatic Expansion Valves



CO Series - Changeable Orifice



Description

The Ranco® CO Series Thermostatic Expansion Valves (TXV) are designed with a replaceable port component that allows changeability to the nominal capacity. The valve 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

- Replaceable port components for variability, matching and maintenance
- Adjustable superheat degree design
- Power head uses continuous laser welding, providing high welding strength and a long diaphragm life
- Available Maximum Operating Pressure (MOP) function
- Weld and screw connections
- 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	R134A, R404A, R407C, R448A, R449A, R22, R410A and R507
Maximum working pressure	667 PSI (4.6 MPa)
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 and Cross Reference

Ranco Part Numbers	Danfoss (T2 / TE2)	DiversiTech	Sanhua (RFKH)	Inlet	Outlet		Ext.		Connection Type	Refrigerants
				Flare	Flare	Solder	Flare	Solder	In/Out/Ext. Pressure Equal.	
				(inch)	(inch)	(inch)	(inch)	(inch)		
RTXVCO-FF-2	068Z3206	TXVH-22	RFKH 01-6.0-22	3/8	1/2	-	-	-	Flare / Flare	R-22
RTXVCO-FFF-2	068Z3209	TXVHE-22	RFKH01E-6.0-13		1/2	-	1/4	-	Flare / Flare / Flare	
RTXVCO-FS-2	068Z3281	TXVH-22-4S	RFKH01-6.0-07		-	1/2	-	-	Flare / Solder	
RTXVCO-FSS-2	068Z3284	TXVHE-22-4S	RFKH01E-6.0-08		-	1/2	-	1/4	Flare / Solder / Solder	
RTXVCO-FF-3	068Z3496		RFKH02-6.3-24	3/8	1/2	-	-	-	Flare / Flare	R-407C
RTXVCO-FFF-3	068Z3501		RFKH02E-6.3-20		1/2	-	1/4	-	Flare / Flare / Flare	
RTXVCO-FS-3	068Z3329		RFKH02-6.3-32		-	1/2	-	-	Flare / Solder	
RTXVCO-FSS-3	068Z3446		RFKH02E-6.3-18		-	1/2	-	1/4	Flare / Solder / Solder	
RTXVCO-FF-5	068Z3400	TXVH-404A-507	RFKH03-4.8-21	3/8	1/2	-	-	-	Flare / Flare	R-404A / R-507
RTXVCO-FFF-5	068Z3403	TXVHE-404A-507	RFKH03E-4.8-15		1/2	-	1/4	-	Flare / Flare / Flare	
RTXVCO-FS-5	068Z3414	TXVH-404A-507-4S	RFKH03-4.8-09		-	1/2	-	-	Flare / Solder	
RTXVCO-FSS-5	068Z3415	TXVHE-404A-507-4S	RFKH03E-4.8-10		-	1/2	-	1/4	Flare / Solder / Solder	
RTXVCO-FF-1	068Z3346	TXVH-134a	RFKH04-2.9-23	3/8	1/2	-	-	-	Flare / Flare	R-134A
RTXVCO-FFF-1	068Z3348	TXVHE-134a	RFKH04E-2.9-19		1/2	-	1/4	-	Flare / Flare / Flare	
RTXVCO-FS-1	068Z3383	TXVH-134a-4S	RFKH04-2.9-30		-	1/2	-	-	Flare / Solder	
RTXVCO-FSS-1	068Z3385	TXVHE-134a-4S	RFKH04E-2.9-31		-	1/2	-	1/4	Flare / Solder / Solder	
RTXVCO-FF-4			RFKH05-7.6-66	3/8	1/2	-	-	-	Flare / Flare	R-410A
RTXVCO-FFF-4			RFKH05E-7.6-33		1/2	-	1/4	-	Flare / Flare / Flare	
RTXVCO-FS-4			RFKH05-7.6-35		-	1/2	-	-	Flare / Solder	
RTXVCO-FSS-4			RFKH05E-7.6-34		-	1/2	-	1/4	Flare / Solder / Solder	
RTXVCO-FF-6	068Z3727		RFKH08-6.1-49	3/8	1/2	-	-	-	Flare / Flare	R-448A / R-449A
RTXVCO-FFF-6	068Z3728		RFKH08E-6.1-48		1/2	-	1/4	-	Flare / Flare / Flare	
RTXVCO-FS-6	068Z3729		RFKH08-6.1-51		-	1/2	-	-	Flare / Solder	
RTXVCO-FSS-6	068Z3730		RFKH08E-6.1-52		-	1/2	-	1/4	Flare / Solder / Solder	

RANCO Changeable Orifice Series (with MOP +15°C)										
Ranco	Danfoss (T2 / TE2)	DiversiTech	Sanhua	Inlet	Outlet		Ext.		Connection Type	Refrigerants
				Flare	Flare	Solder	Flare	Solder	In/Out/Ext. Pressure Equal.	
				(inch)	(inch)	(inch)	(inch)	(inch)		
RTXVCO-FFM-2	068Z3208		RFKH 01-6.0-205	3/8	1/2	-	-	-	Flare / Flare	R-22
RTXVCO-FFFM-2	068Z3211		RFKH01E-6.0-204		1/2	-	1/4	-	Flare / Flare / Flare	
RTXVCO-FSM-2	068Z3287		RFKH01-6.0-202		-	1/2	-	-	Flare / Solder	
RTXVCO-FSSM-2	068Z3290		RFKH01E-6.0-203		-	1/2	-	1/4	Flare / Solder / Solder	
RTXVCO-FFM-3	068Z3516		RFKH02-6.3-209	3/8	1/2	-	-	-	Flare / Flare	R-407C
RTXVCO-FFFM-3	068Z3517		RFKH02E-6.3-208		1/2	-	1/4	-	Flare / Flare / Flare	
RTXVCO-FSM-3	068Z3329		RFKH02-6.3-212		-	1/2	-	-	Flare / Solder	
RTXVCO-FSSM-3	068Z3447		RFKH02E-6.3-207		-	1/2	-	1/4	Flare / Solder / Solder	
RTXVCO-FFM-5	068Z3402		RFKH03-4.8-218	3/8	1/2	-	-	-	Flare / Flare	R-404A / R-507
RTXVCO-FFFM-5	068Z3405		RFKH03E-4.8-217		1/2	-	1/4	-	Flare / Flare / Flare	
RTXVCO-FSM-5	068Z3416		RFKH03-4.8-215		-	1/2	-	-	Flare / Solder	
RTXVCO-FSSM-5	068Z3417		RFKH03E-4.8-216		-	1/2	-	1/4	Flare / Solder / Solder	
RTXVCO-FFM-1	068Z3347		RFKH04-2.9-221	3/8	1/2	-	-	-	Flare / Flare	R-134A
RTXVCO-FFFM-1	068Z3349		RFKH04E-2.9-220		1/2	-	1/4	-	Flare / Flare / Flare	
RTXVCO-FSM-1	068Z3387		RFKH04-2.9-223		-	1/2	-	-	Flare / Solder	
RTXVCO-FSSM-1	068Z3389		RFKH04E-2.9-224		-	1/2	-	1/4	Flare / Solder / Solder	
RTXVCO-FFM-4			RFKH05-7.6-230	3/8	1/2	-	-	-	Flare / Flare	R-410A
RTXVCO-FFFM-4			RFKH05E-7.6-225		1/2	-	1/4	-	Flare / Flare / Flare	
RTXVCO-FSM-4			RFKH05-7.6-227		-	1/2	-	-	Flare / Solder	
RTXVCO-FSSM-4			RFKH05E-7.6-226		-	1/2	-	1/4	Flare / Solder / Solder	

Interchangeable Orifice										
Ranco	Danfoss	DiversiTech	Sanhua	Description	Nominal Capacity (tons)					
					R-134A	R-404A / R-507	R-407C	R-410A	R-22	R-448A / R-449A
RIO-0X	068-2002	TXVH-0X	RFKH-023-0X	0X cartridge	0.19	0.18	0.27	0.29	0.25	0.25
RIO-00	068-2003	TXVH-00	RFKH-023-00	00 cartridge	0.34	0.37	0.53	0.6	0.51	0.5
RIO-01	068-2010	TXVH-01	RFKH-023-01	01 cartridge	0.59	0.75	1.04	1.16	0.99	0.95
RIO-02	068-2015	TXVH-02	RFKH-023-02	02 cartridge	0.73	1.05	1.41	1.57	1.34	1.3
RIO-03	068-2006	TXVH-03	RFKH-023-03	03 cartridge	1.22	1.79	2.4	2.66	2.27	2.29
RIO-04	068-2007	TXVH-04	RFKH-023-04	04 cartridge	1.82	2.83	3.67	4.04	3.45	3.5
RIO-05	068-2008	TXVH-05	RFKH-023-05	05 cartridge	2.4	3.71	4.86	5.57	4.76	4.5
RIO-06	068-2009	TXVH-06	RFKH-023-06	06 cartridge	2.87	4.42	5.82	6.55	5.6	5.5

Inlet Adapter				
Ranco	Danfoss	DiversiTech	Sanhua	Description
RIA-00	068-2060	TXVH-3S-IN	RFKA-038-01	3/8" SAE x 3/8" ODF