

540RA 9T7TVLC

540RA Series Refrigerant Solenoid Valves

The 540RA is a 2-way, normally open diaphragm valve used for liquid, suction and hot gas service.

Features

- Single coil family fits all valve sizes
- Can be brazed into the line without disassembly
- Extended ends for easy installation
- Low pressure differential required for full opening
- Field serviceable parts available

Specifications

Maximum fluid temperature.....250°F (121°C)
Maximum working pressure.....500 psig (35 Bar)
Maximum operating pressure differential.....250 psig (17 bar)
UL/CUL file number.....MP604

Model number nomenclature *- Example: 540RA 8T5VLC*

Valve series	Design series	Port size	Connection type	Connection size	Valve configuration	*Coil	Sequential identifier	Customer special	Pack type
540R	A	8	T	5		VLC			
Normally Open Refrigerant Solenoid Valve	Diaphram Design	In 1/16"	T = Copper Extended Ends	In 1/8"	M = Manual Opening Stem T = Mounting Stud (Omit for Std. Valve)	VLC = Valve Less Coil For Valves with Coil See Coil Nomenclature on Coil Catalog Page	Blank Thru -99	G = Customer Special (Omit for Standard)	B1 = Bulk Pack (Omit for Individual Pack)

* Valves are shipped without the solenoid coils (VLC = Valve Less Coil). See coil assemblies for availability. Valves require a DM, MM or ASC2 type coil assembly.

540RA Series Refrigerant Solenoid Valves

Valve config.	Port size (in)	Connection size & type	Nominal liquid capacity - tons (kw)						Model number	Item number
			R-22	R-134a	R-404a / R-507	R-407c	R-448a / R-449a	R-450a / R-513a		
Standard Valve	1/2	5/8" ODF	15.6 (54.9)	12.1 (42.6)	10.3 (36.2)	14.8 (52.1)	15.7 (55.1)	10.8 (37.8)	**540RA 8T5VLC**	**060392**
Standard Valve	9/16	7/8" ODF	30.5 (107.3)	21.0 (74.0)	20.1 (70.7)	29.0 (102.0)	30.6 (107.7)	21.0 (74.0)	**540RA 9T7VLC**	**060395**
Standard Valve	3/4	7/8" ODF	34.9 (122.7)	27.1 (95.3)	23.0 (80.9)	33.2 (116.8)	35.0 (123.2)	24.1 (84.6)	**540RA 12T7VLC**	**060397**
Standard Valve		1-1/8" ODF							**540RA 12T9VLC**	**060398**
Standard Valve	1	1-1/8" ODF	58.0 (203.9)	45.0 (158.3)	38.3 (134.7)	55.2 (194.1)	58.2 (204.8)	40.0 (140.6)	**540RA 16T9VLC**	**060399**
Standard Valve	1-1/4	1-5/8" ODF	95.4 (335.5)	70.9 (249.4)	65.7 (231.1)	90.8 (319.3)	95.8 (336.8)	65.8 (231.3)	**540RA 20T13VLC**	**060402**
Mounting Stud	1/2	5/8" ODF	15.6 (54.9)	12.1 (42.6)	10.3 (36.2)	14.8 (52.1)	15.7 (55.1)	10.8 (37.8)	**540RA 8T5TVLC**	**046265**
Mounting Stud	9/16	5/8" ODF	23.3 (81.9)	18.0 (63.3)	15.3 (53.8)	22.1 (77.2)	23.4 (82.3)	16.1 (56.5)	**540RA 9T5TVLC**	**046266**
Mounting Stud		7/8" ODF	30.5 (107.3)	21.0 (74.0)	20.1 (70.7)	29.0 (102.0)	30.6 (107.7)	21.0 (74.0)	**540RA 9T7TVLC**	**046268**
Mounting Stud	3/4	7/8" ODF	34.9 (122.7)	27.1 (95.3)	23.0 (80.9)	33.2 (116.8)	35.0 (123.2)	24.1 (84.6)	**540RA 12T7TVLC**	**046269**
Mounting Stud	1	1-1/8" ODF	58.0 (203.9)	45.0 (158.3)	38.3 (134.7)	55.2 (194.1)	58.2 (204.8)	40.0 (140.6)	**540RA 16T9TVLC**	**046270**
Mounting Stud	1-1/4	1-3/8" ODF	95.4 (335.5)	70.9 (249.4)	65.7 (231.1)	90.8 (319.3)	95.8 (336.8)	65.8 (231.3)	**540RA 20T11TVLC**	**047953**

NOTE: Capacities based on 100°F liquid and 40°F saturated evaporator per ARI standard 760-87. All ratings are based on largest connection size.

540RA series parts list

Description	Model number	Item number
Complete kits		
540RA 8 Solenoid Valve Repair Kit (K), Enclosing Tube Assembly and Gasket, Plunger and Spring, Hold Down Spring, Body Gasket and Diaphragm Assembly	**KS-30328**	**060633**
540RA 9 Solenoid Valve Repair Kit (K), Enclosing Tube Assembly and Gasket, Plunger and Spring, Hold Down Spring, Body Gasket and Diaphragm Assembly	**KS-30329**	**060634**
540RA 12 Solenoid Valve Repair Kit (K), Enclosing Tube Assembly and Gasket, Plunger and Spring, Hold Down Spring, Body Gasket and Diaphragm Assembly	**KS-30330**	**060635**
540RA 16 Solenoid Valve Repair Kit (K), Enclosing Tube and Gasket, Plunger and Spring, Hold Down Spring, Body Gasket and Diaphragm Assembly	**KS-30331**	**060636**
540RA 20 Solenoid Valve Repair Kit (K), Enclosing Tube and Gasket, Plunger and Spring, Hold Down Spring, Body Gasket and Diaphragm Assembly	**KS-30332**	**060637**
Gasket kit		
240RA and 540RA Gasket Kit (G)	**KG-10028**	**054356**
Tool kits		
100RB, 240RA and 540RA Solenoid Valve Universal (2/3 hole) Spanner Wrench (Included in complete valve kit)	**X-11981-1**	**027451**
Magnetic Solenoid Tool closes a normally open solenoid valve in the de-energized state, incorporates a spanner wrench for easy disassembly of solenoid valve series 500RB, 540RA and provides an orifice to manually adjust opening stem.	**Solenoid tool**	**066019**

Exploded view & parts kit data

Valve repair kit

(K) indicates part is supplied in valve repair kit.

Gasket kit

(G) indicates gasket is supplied in gasket kit.

