



500RB 4T3VLC

500RB SERIES REFRIGERANT SOLENOID VALVES

The 500RB is a pilot-operated, normally open valve used for liquid, suction and hot gas service.

FEATURES

- Single coil family fits all valve sizes
- Extended ends for easy installation
- Low pressure differential required for full opening
- PTFE O-ring for superior external sealing
- Optional SAE, ODF, NPTF and ODF inlet with ODM outlet
- Field serviceable parts available

SPECIFICATIONS

Maximum Fluid Temperature..... 250°F (121°C)
 Maximum Working Pressure..... 680 psig (47 bar)
 Maximum Operating Pressure Differential 275 psig (19 bar)
 UL/CUL File Number MP604

MODEL NUMBER NOMENCLATURE - Example: 500RB 4T3VLC

VALVE SERIES	DESIGN SERIES	PORT SIZE	CONNECTION TYPE	CONNECTION SIZE	*COIL	SEQUENTIAL IDENTIFIER	CUSTOMER SPECIAL	PACK TYPE
500R	B	4	T	3	VLC			
Pilot-Operated Normally Open Refrigerant Solenoid Valves	Piston Design	In 1/16" Increments	F = SAE P = NPTF S = ODF Inlet/ODM Outlet T = ODF (Copper Extended Fittings)	Connection Size In 1/8" Increments	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 coil.

500RB SERIES REFRIGERANT SOLENOID VALVES

PORT SIZE (IN)	CONNECTION SIZE & TYPE	NOMINAL LIQUID CAPACITY - TONS (kW)									MODEL NUMBER	ITEM NUMBER	
		R-22	R-134a	R-290	R-404A / R-507	R-407C	R410A	R-448A / R-449A	R-450A / R-513A	R-744			
1/8	1/4" SAE											500RB 2F2VLC	063274
	1/4" ODF	3.6 (12.7)	2.7 (9.6)	3.8 (13.4)	2.3 (8.2)	3.4 (11.9)	3.4 (11.9)	3.6 (12.7)	2.5 (8.7)	8.2 (28.7)	500RB 2T2VLC	063278	
	3/8" ODF										500RB 2T3VLC	063280	
3/16	1/2" SAE	4.8 (16.9)	3.6 (12.7)	5.0 (17.6)	3.1 (10.9)	4.5 (15.9)	4.5 (15.9)	4.8 (17.0)	3.3 (11.6)	10.9 (38.2)	500RB 3F4VLC	063286	
1/4	1/4" ODF	8.0 (28.0)	6.0 (21.1)	8.3 (29.2)	5.1 (18.0)	7.5 (26.3)	7.5 (26.3)	8.0 (28.1)	5.5 (19.3)	18.0 (63.3)	500RB 4T2VLC	063304	
	3/8" SAE	4.8 (16.9)	3.6 (12.7)	5.0 (17.6)	3.1 (10.9)	4.5 (15.9)	4.5 (15.9)	4.8 (17.0)	3.3 (11.6)	18.0 (63.3)	500RB 4F3VLC	063294	
	3/8" NPTF										500RB 4P3VLC	063298	
	3/8" ODF										500RB 4T3VLC	063306	
	1/2" ODF X 5/8" ODM	8.0 (28.0)	6.0 (21.1)	8.3 (29.2)	5.1 (18.0)	7.5 (26.3)	7.5 (26.3)	8.0 (28.1)	5.5 (19.3)	18.0 (63.3)	500RB 4S4VLC	063302	
	1/2" ODF										500RB 4T4VLC	063308	
	5/8" ODF										500RB 4T5VLC	063310	
5/16	3/8" NPTF										500RB 5P3VLC	063316	
	3/8" ODF										500RB 5T3VLC	063322	
	1/2" SAE										500RB 5F4VLC	063312	
	1/2" ODF X 5/8" ODM	8.2 (21.8)	6.2 (21.8)	8.6 (30.1)	5.3 (18.6)	7.7 (27.2)	7.7 (27.2)	8.3 (29.0)	5.7 (19.9)	18.7 (65.5)	500RB 5S4VLC	063318	
	5/8" SAE										500RB 5F5VLC	063314	
	5/8" ODF										500RB 5S5VLC	063320	

500RB SERIES REFRIGERANT SOLENOID VALVES (CONTINUED)

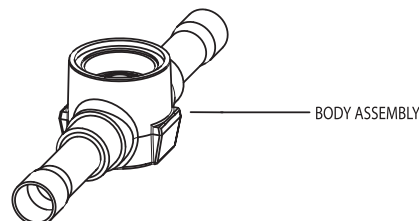
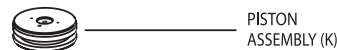
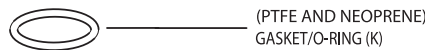
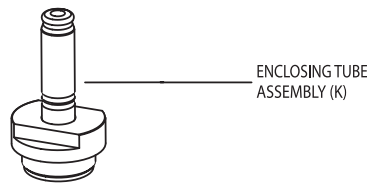
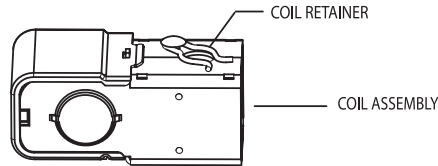
PORT SIZE (IN)	CONNECTION SIZE & TYPE	NOMINAL LIQUID CAPACITY - TONS (kW)									MODEL NUMBER	ITEM NUMBER
		R-22	R-134a	R-290	R-404A / R-507	R-407C	R410A	R-448A / R-449A	R-450A / R-513A	R-744		
3/4	3/8" NPTF	9.5 (33.3)	7.2 (25.2)	9.9 (34.7)	6.1 (21.5)	8.9 (31.4)	8.9 (31.4)	9.5 (33.5)	6.5 (23.0)	21.5 (75.6)	500RB 6P3VLC	063331
	1/2" ODF X 5/8" ODM										500RB 6S4VLC	063333
	5/8" SAE										500RB 6F5VLC	063329
	5/8" ODF										500RB 6S5VLC	063335
	1/2" ODF										500RB 6T4VLC	063339
7/16	1/2" ODF	17.0 (59.8)	12.7 (44.6)	—	11.1 (39.0)	16.2 (57.0)	15.7 (55.2)	17.1 (60.0)	11.7 (41.2)	37.7 (132.3)	500RB 7T4VLC	064064
	5/8" ODF X 7/8" ODM										500RB 7S5VLC	064038

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.

EXPLODED VIEW & PARTS KIT DATA

500RB SERIES PART KITS

DESCRIPTION	MODEL NUMBER	ITEM NUMBER
500RB 2 - 500RB 6 Solenoid Valve Repair Kit (K), Enclosing Tube Assembly and Gasket (PTFE and Neoprene) and Piston Assembly	KS-30353	064268
500RB 7 Solenoid Valve Repair Kit (K), Enclosing Tube Assembly and Gasket (PTFE and Neoprene) and Piston Assembly	KS-30355	064264
200RB 2 - 200RB 6 and 500RB Solenoid Valve Gasket Kit, 12 PTFE and 12 Neoprene O-Rings	KG-10025	049190
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



VALVE REPAIR KIT

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



Detailed product drawings

Extended capacity tables

