

250RA Series refrigerant solenoid valves

Enhanced reliability for high pressure A1 and A2L refrigerants



Ease of install and service:

Take-apart construction with repair kits and manual stem kits

Extended copper connections

Models available with mounting stud or manual opening stem

Braze into line without disassembly



Designed for multiple applications:

Compatible with all common A1 and A2L class refrigerants

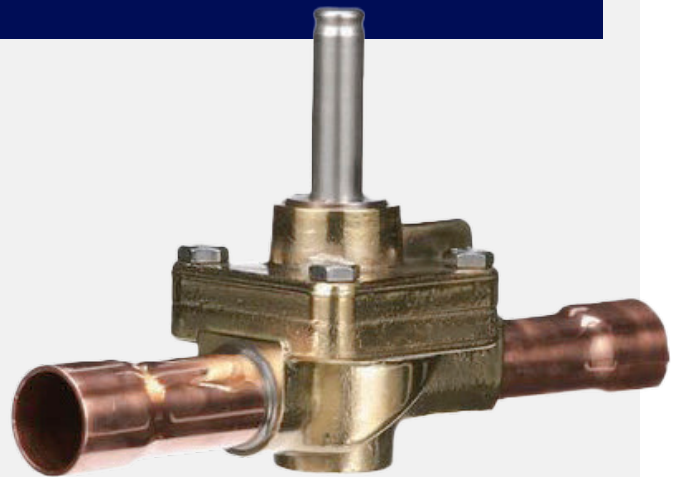
2-way, normally closed diaphragm valve for liquid, suction and hot gas applications

PTFE upgraded diaphragm design for high temperature and pressure applications

Low minimum opening pressure drop

High tolerance to dirt and debris

Backward compatible for 240RA Series



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Specifications:

Nominal R-410A liquid capacity range..... 14.6 to 89.1 tons
Maximum fluid temperature..... A1: 250°F (121°C)
.....A2L: 221°F (105°C)
Maximum working pressure.....680 psig (47 bar)
Maximum operating pressure differential.....300 psig (21 bar)
UL/CUL file numberMP604
Coils..... AM and ASC2/ASC2L coils fit all 250RA models

250RA series refrigerant solenoid valves:

Valve configuration	Port size (in)	Conn. size & type	Nominal liquid capacity - tons (kw)											Model number	Item number
			R-134a	R-22	R-32	R-404A / R-507	R-407A	R-407C	R-410A	R-448A / R-449A	R-450A / R-513A	R-454A	R-454B / R-452B		
Standard valve	1/2	5/8 ODF												250RA 8T5VLC-01	1838403
Mounting stud		5/8 ODF	12.1	15.6	21.2	10.3	11.0	14.8	14.6	15.7	10.8	14.5	14.1	250RA 8T5TVLC-01	183839
Manual opening stem		5/8 ODF	(42.6)	(54.9)	(74.6)	(36.2)	(38.8)	(52.1)	(51.2)	(55.1)	(37.8)	(51.0)	(49.6)	250RA 8T5MVLC-01	1840052
Manual opening stem		7/8 ODF												250RA 8T7MVLC-01	1840061
Standard valve	9/16	7/8 ODF												250RA 9T7VLC-01	1838420
Mounting stud		7/8 ODF	21.0	30.5	41.5	20.1	21.6	29.0	28.5	30.6	21.0	28.3	27.6	250RA 9T7TVLC-01	1838411
Manual opening stem		5/8 ODF	(74.0)	(107.3)	(145.9)	(70.7)	(75.9)	(102.0)	(100.2)	(107.7)	(74.0)	(99.6)	(97.0)	250RA 9T5MVLC-01	1840079
Manual opening stem		7/8 ODF												250RA 9T7MVLC-01	1840087
Standard valve	3/4	1-1/8 ODF												250RA 12T9VLC-01	1838340
Mounting stud		1-1/8 ODF	27.1	34.9	47.5	23.0	24.7	33.2	32.6	35.0	24.1	32.4	31.5	250RA 12T9TVLC-01	1838331
Manual opening stem		7/8 ODF	(95.3)	(122.7)	(166.9)	(80.9)	(86.9)	(116.8)	(114.6)	(123.2)	(84.6)	(114.0)	(111.0)	250RA 12T7MVLC-01	1839991
Manual opening stem		1-1/8 ODF												250RA 12T9MVLC-01	1840001
Standard valve	1	1-3/8 ODF												250RA 16T11VLC-01	1838366
Mounting stud		1-3/8 ODF	45.0	58.0	78.9	38.3	41.1	55.2	54.2	58.2	40.0	53.9	52.4	250RA 16T11TVLC-01	1838358
Manual opening stem		1-1/8 ODF	(158.3)	(203.9)	(277.4)	(134.7)	(144.4)	(194.1)	(190.5)	(204.8)	(140.6)	(189.4)	(184.4)	250RA 16T9MVLC-01	1840028
Manual opening stem		1-3/8 ODF												250RA 16T11MVLC-01	1840010
Standard valve	1-1/4	1-5/8 ODF												250RA 20T13VLC-01	1838382
Mounting stud		1-5/8 ODF	70.9	95.4	129.7	65.7	67.5	90.8	89.1	95.8	65.8	88.6	86.2	250RA 20T13TVLC-01	1838374
Manual opening stem		1-3/8 ODF	(249.4)	(335.5)	(456.3)	(231.1)	(237.5)	(319.3)	(313.4)	(336.8)	(231.3)	(311.6)	(303.3)	250RA 20T11MVLC-01	1840036
Manual opening stem		1-5/8 ODF												250RA 20T13MVLC-01	1840044

Note: Capacities based on 100°F liquid and 40°F saturated evaporator per AHRI standard 760. All ratings are based on largest connection size.

Cross reference:

Copeland	Danfoss	Sporlan
250RA 8	EVR 15	E14S (HP)
250RA 9	EVR 18	E19S (HP)
250RA 12	EVR 20	E25S (HP)
250RA 16	EVR 25	E35S (HP)
250RA 20	EVR 32	E42S (HP)