

4-WAY REVERSING VALVES

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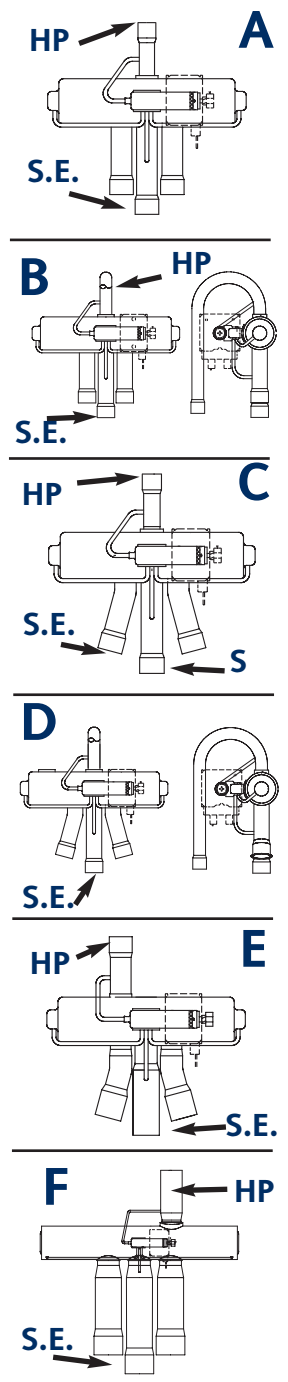
The 4-way Reversing Valve is the key component to provide Heating and Cooling from the system to the air conditioned space by reversing the flow direction of refrigerant. It is used at room air conditioners, packaged and central air conditioners. The reversing Valves are designed for Heat Pump Systems with capacity from 3kW to 580kW. They are suitable for most refrigerants as R407C - R410A - R134A.

The valve design guarantees a minimum pressure drop and very low risk of leakage. The models offer a wide range of connection sizes, configurations and capacity for specific applications. The standard models are available in small quantities per box providing increased flexibility.

V-Series - Part Numbers and Technical Features

Styles

Part Number	R407C kW min/max (US ton min/max)	R410A kW min/max (US ton min/max)	R134A kW min/max (US ton min/max)	C.T.S.				Style	Mass (W/O coil)	Qty/box	Coil
				S.E.C.		Discharge					
				mm	Inch	mm	Inch				
V0-406050100	1,34 / 3,02 (0,38 / 0,86)	1,55 / 3,83 (0,44 / 1,09)	1,16 / 2,36 (0,33 / 0,67)	9,64	3/8	8,12	5/16	B	210	36	LDL/LDK
V1-408050100	1,41 / 4,57 (0,40 / 1,30)	1,76 / 5,98 (0,50 / 1,70)	1,41 / 3,87 (0,40 / 1,10)	12,84	1/2	8,01	5/16	A	285	36	LDL/LDK
V1-408060100	1,41 / 4,57 (0,40 / 1,30)	1,76 / 5,98 (0,50 / 1,70)	1,41 / 3,87 (0,40 / 1,10)	12,84	1/2	9,67	3/8	A	285	36	LDL/LDK
V1-406060100	1,41 / 4,57 (0,40 / 1,30)	1,76 / 5,98 (0,50 / 1,70)	1,41 / 3,87 (0,40 / 1,10)	9,64	3/8	9,67	3/8	A	285	36	LDL/LDK
V1-406050100	1,41 / 4,57 (0,40 / 1,30)	1,76 / 5,98 (0,50 / 1,70)	1,41 / 3,87 (0,40 / 1,10)	9,64	3/8	8,01	5/16	A	285	36	LDL/LDK
V1-406050200	1,41 / 4,57 (0,4 / 1,3)	1,76 / 5,98 (0,50 / 1,70)	1,41 / 3,87 (0,4 / 1,1)	9,64	3/8	8,12	5/16	B	310	36	LDL/LDK
V1-406060200	1,41 / 4,57 (0,4 / 1,3)	1,76 / 5,98 (0,50 / 1,70)	1,41 / 3,87 (0,4 / 1,1)	9,64	3/8	9,67	3/8	B	310	36	LDL/LDK
V2-408060100	2,81 / 6,33 (0,8 / 1,8)	3,17 / 7,74 (0,90 / 2,20)	2,46 / 4,92 (0,7 / 1,4)	12,84	1/2	9,67	3/8	A	285	36	LDL/LDK
V2-408060200	2,81 / 6,33 (0,8 / 1,8)	3,17 / 7,74 (0,90 / 2,20)	2,46 / 4,92 (0,7 / 1,4)	12,84	1/2	9,67	3/8	B	310	36	LDL/LDK
V2-410060300	3,87 / 7,03 (1,1 / 2,0)	4,57 / 8,79 (1,30 / 2,50)	3,17 / 5,63 (0,9 / 1,6)	16,03	5/8	9,67	3/8	C	315	36	LDL/LDK
V2-410060400	3,87 / 7,03 (1,1 / 2,0)	4,57 / 8,79 (1,30 / 2,50)	3,17 / 5,63 (0,9 / 1,6)	16,03	5/8	9,67	3/8	D	335	36	LDL/LDK
V3-410080700	3,87 / 9,50 (1,1 / 2,7)	4,57 / 11,96 (1,30 / 3,40)	3,17 / 7,39 (0,9 / 2,1)	16,03	5/8	12,84	1/2	E	310	36	LDL/LDK
V3-4100H0700	3,87 / 9,50 (1,1 / 2,7)	4,57 / 11,96 (1,30 / 3,40)	3,17 / 7,39 (0,9 / 2,1)	16,03	5/8	12,70 O.D.	1/2 O.D.	E	310	36	LDL/LDK
V3-412080800	3,87 / 9,85 (1,1 / 2,8)	4,57 / 12,31 (1,30 / 3,50)	3,17 / 7,74 (0,9 / 2,2)	19,18	3/4	12,84	1/2	E	350	36	LDL/LDK
V6-414120100	3,87 / 18,99 (1,1 / 5,4)	4,57 / 23,92 (1,30 / 6,80)	3,17 / 14,77 (0,9 / 4,2)	22,36	7/8	19,18	3/4	A	810	18	LDL/LDK
V6-414100100	3,87 / 18,99 (1,1 / 5,4)	4,57 / 23,92 (1,30 / 6,80)	3,17 / 14,77 (0,9 / 4,2)	22,36	7/8	16,03	5/8	A	810	18	LDL/LDK
V6-414080100	3,87 / 18,99 (1,1 / 5,4)	4,57 / 23,92 (1,30 / 6,80)	3,17 / 14,77 (0,9 / 4,2)	22,36	7/8	12,83	1/2	A	810	18	LDL/LDK
V6-412080100	3,87 / 18,99 (1,1 / 5,4)	4,57 / 23,92 (1,30 / 6,80)	3,17 / 14,77 (0,9 / 4,2)	19,18	3/4	12,83	1/2	A	745	18	LDL/LDK
V10-414080100	11,25 / 33,06 (3,2 / 9,4)	13,01 / 41,85 (3,70 / 11,90)	9,85 / 26,03 (2,8 / 7,4)	22,35	7/8	12,83	1/2	A	1.200	12	LDL/LDK
V10-414120100	11,25 / 33,06 (3,2 / 9,4)	13,01 / 41,85 (3,70 / 11,90)	9,85 / 26,03 (2,8 / 7,4)	22,35	7/8	19,18	3/4	A	1.200	12	LDL/LDK
V10-414140400	11,25 / 33,06 (3,2 / 9,4)	13,01 / 41,85 (3,70 / 11,90)	9,85 / 26,03 (2,8 / 7,4)	22,35	7/8	22,36	7/8	A	1.220	12	LDL/LDK
V10-418140100	11,25 / 37,63 (3,2 / 10,7)	13,01 / 47,48 (3,70 / 13,50)	9,85 / 29,54 (2,8 / 8,4)	28,78	1 1/8	22,36	7/8	A	1.310	12	LDL/LDK
V10-418120100	11,25 / 37,63 (3,2 / 10,7)	13,01 / 47,48 (3,70 / 13,50)	9,85 / 29,54 (2,8 / 8,4)	28,78	1 1/8	19,18	3/4	A	1.310	12	LDL/LDK
V10-414100100	11,25 / 33,06 (3,2 / 9,4)	13,01 / 41,85 (3,70 / 11,90)	9,85 / 26,03 (2,8 / 7,4)	22,35	7/8	16,03	5/8	A	1.200	12	LDL/LDK
V10-414120200	17,23 / 33,06 (4,9 / 9,4)	19,73 / 41,85 (5,61 / 11,90)	14,42 / 26,03 (4,1 / 7,4)	22,35	7/8	19,18	3/4	A	1.190	12	LDL/LDK
V10-4180M0200	17,23 / 37,63 (4,9 / 10,7)	19,73 / 47,48 (5,61 / 13,50)	14,42 / 29,54 (4,1 / 8,4)	28,78	1 1/8	19,05 O.D.	3/4 O.D.	A	1.300	12	LDL/LDK
V10-418100200	17,23 / 37,63 (4,9 / 10,7)	19,73 / 47,48 (5,61 / 13,50)	14,42 / 29,54 (4,1 / 8,4)	28,78	1 1/8	16,03	5/8	A	1.300	12	LDL/LDK
V10-418120200	17,23 / 37,63 (4,9 / 10,7)	19,73 / 47,48 (5,61 / 13,50)	14,42 / 29,54 (4,1 / 8,4)	28,78	1 1/8	19,18	3/4	A	1.300	12	LDL/LDK
V10-418140200	17,23 / 37,63 (4,9 / 10,7)	19,73 / 47,48 (5,61 / 13,50)	14,42 / 29,54 (4,1 / 8,4)	28,78	1 1/8	22,36	7/8	A	1.300	12	LDL/LDK
V12-4220T0200	22,86 / 46,78 (6,5 / 13,3)	26,38 / 58,91 (7,50 / 16,75)	18,99 / 36,93 (5,4 / 10,5)	35,13	1 3/8	28,58 O.D.	1 1/8 O.D.	F	2.030	6	LDL/LDK



Legenda

HP: High Pressure; S: Suction;
S.E.: Connected to High Pressure when Solenoid is Energized

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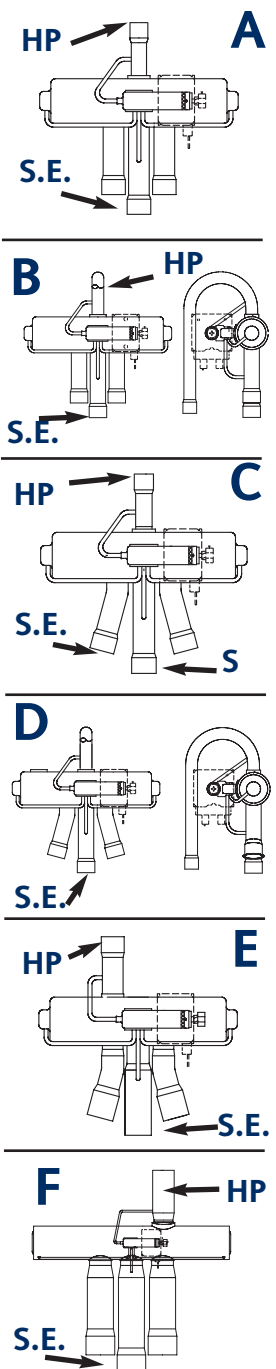
The 4-way Reversing Valve is the key component to provide Heating and Cooling from the system to the air conditioned space by reversing the flow direction of refrigerant. It is used at room air conditioners, packaged and central air conditioners. The reversing Valves are designed for Heat Pump Systems with capacity from 3kW to 580kW. They are suitable for most refrigerants as R407C - R410A - R134A.

The valve design guarantees a minimum pressure drop and very low risk of leakage. The models offer a wide range of connection sizes, configurations and capacity for specific applications. The standard models are available in small quantities per box providing increased flexibility.

N-Series - Part Numbers and Technical Features

Part Number	R407C kW min/max (US ton min/max)	R410A kW min/max (US ton min/max)	R134A kW min/max (US ton min/max)	C.T.S.				Style	Mass (W/O coil)	Qty/box	Coil
				S.E.C.		Discharge					
				mm	Inch	mm	Inch				
N15C00S *	15,83 / 54,51 (4,50 / 15,50)	15,83 / 61,55 (4,50 / 17,50)	12,31 / 40,80 (3,50 / 11,60)	28,80	1 1/8	22,40	7/8	A	1.260		LDL/LDK
N20C00G *	17,59 / 72,45 (5,00 / 20,60)	17,60 / 81,60 (5,00 / 23,20)	13,72 / 54,16 (3,90 / 15,40)	32,00	1 1/4	25,60	1	A	3.100	1	LDL/LDK
N20C10G	17,59 / 72,45 (5,00 / 20,60)	17,60 / 81,60 (5,00 / 23,20)	13,72 / 54,16 (3,90 / 15,40)	32,00	1 1/4	25,60	1	A	3.200	1	LDL/LDK
N20C01G *	17,59 / 72,45 (5,00 / 20,60)	17,60 / 81,60 (5,00 / 23,20)	13,72 / 54,16 (3,90 / 15,40)	34,90	1 3/8	28,60	1 1/8	A	3.100	1	LDL/LDK
N20C11G	17,59 / 72,45 (5,00 / 20,60)	17,60 / 81,60 (5,00 / 23,20)	13,72 / 54,16 (3,90 / 15,40)	34,90	1 3/8	28,60	1 1/8	A	3.200	1	LDL/LDK
N30C00G *	26,38 / 108,68 (7,50 / 30,90)	26,40 / 122,40 (7,51 / 34,80)	20,40 / 81,24 (5,80 / 23,10)	38,30	1 1/2	32,00	1 1/4	A	3.200	1	LDL/LDK
N30C10G	26,38 / 108,68 (7,50 / 30,90)	26,40 / 122,40 (7,51 / 34,80)	20,40 / 81,24 (5,80 / 23,10)	38,30	1 1/2	32,00	1 1/4	A	3.300	1	LDL/LDK
N40C10G	35,17 / 144,90 (10,00 / 41,20)	35,20 / 163,20 (10,01 / 46,40)	27,08 / 108,32 (7,70 / 30,80)	45,00	1 7/8	38,10	1 1/2	A	7.500	1	LDL/LDK
N50C10G	35,17 / 181,13 (10,00 / 51,50)	35,20 / 204,00 (10,01 / 58,00)	27,08 / 135,40 (7,70 / 38,50)	54,20	2 1/7	38,10	1 1/2	A	7.600	1	LDL/LDK

Styles

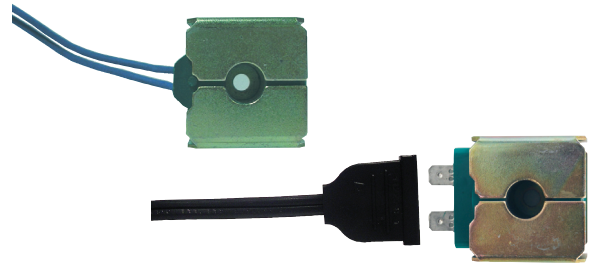


VH-Series - Part Numbers and Technical Features

Part Number	R407C kW min/max (US ton min/max)	R410A kW min/max (US ton min/max)	R134A kW min/max (US ton min/max)	C.T.S.				Style	Mass (W/O coil)	Qty/box	Coil
				S.E.C.		Discharge					
				mm	Inch	mm	Inch				
VH10120	17,59 / 72,45 (5,00 / 20,60)	--- / ---	13,72 / 54,16 (3,90 / 15,40)	31,80	1 1/4	25,40	1	A	3.100	1	LDL/LDK
VH10122	17,59 / 72,45 (5,00 / 20,60)	--- / ---	13,72 / 54,16 (3,90 / 15,40)	34,90	1 3/8	28,60	1 1/8	A	3.100	1	LDL/LDK
VH15120 *	26,38 / 108,68 (7,50 / 30,90)	--- / ---	20,40 / 81,24 (5,80 / 23,10)	38,30	1 1/2	32,00	1 1/4	A	3.200	1	LDL/LDK
VH15122	26,38 / 108,68 (7,50 / 30,90)	--- / ---	20,40 / 81,24 (5,80 / 23,10)	38,30	1 1/2	32,00	1 1/4	A	3.300	1	LDL/LDK
VH20321	35,17 / 144,90 (10,00 / 41,20)	--- / ---	27,08 / 108,32 (7,70 / 30,80)	44,90	1 3/4	38,10	1 1/2	A	7.500	1	LDL/LDK
VH20322	35,17 / 144,90 (10,00 / 41,20)	--- / ---	27,08 / 108,32 (7,70 / 30,80)	41,30	1 5/8	41,30	1 5/8	A	7.500	1	LDL/LDK
VH90120	35,17 / 181,13 (10,00 / 51,50)	--- / ---	27,08 / 135,40 (7,70 / 38,50)	54,20	2 1/8	38,10	1 1/2	A	7.600	1	LDL/LDK
VH91120	42,20 / 217,35 (12,00 / 61,80)	--- / ---	32,36 / 162,49 (9,20 / 46,20)	66,70	2 5/8	41,50	1 5/8	A	8.200	1	LDL/LDK
VH32085	70,34 / 289,80 (20,00 / 82,40)	--- / ---	54,16 / 216,65 (15,40 / 61,60)	Flange RBK 65A	Flange RBK 65A	Flange RBK 50A	Flange RBK 50A		55.000	1	LDL/LDK
VH32123	105,51 / 436,11 (30,00 / 124,00)	--- / ---	81,24 / 324,97 (23,10 / 92,40)	Flange RBK 65A	Flange RBK 65A	Flange RBK 50A	Flange RBK 50A		73.000	1	LDL/LDK
VH32163	140,68 / 579,60 (40,00 / 164,80)	--- / ---	108,32 / 432,59 (30,80 / 123,00)	Flange RBK 65A	Flange RBK 65A	Flange RBK 50A	Flange RBK 50A		82.000	1	LDL/LDK

Legenda

HP: High Pressure; S: Suction;
S.E.: Connected to High Pressure when Solenoid is Energized



RANCO offers Type LDK and LDL solenoid coils for use with the entire range of RANCO Heat Pump Reversing Valves. These color coded epoxy encapsulated, continuous duty, moisture resistant magnetic coils are designed to operate the pilot valve controlling the Reversing Valves listed above.

LDK Solenoid Coils - Part Numbers and Technical Features

Coil Type	Color	Voltage	Frequency	Wattage 50/60 Hz	UL Thermal Class	Cable Length	
						mm	inch
LDK-11	Red	24 V~	50/60 Hz	5/4	A	1200	48
LDK-31	Black	120 V~	50/60 Hz	5/4	A	1200	48
LDK-41	Green	208 / 240 V~	50/60 Hz	5/4	A	1200	48
LDK-51	Blue	277 V~	50/60 Hz	5/4	A	1200	48
LDK-73	Yellow	12 V $\overline{\text{DC}}$	-	10	F	1200	48
LDK-83	Orange	24 V $\overline{\text{DC}}$	-	10	F	1200	48

LDL Solenoid Coils - Part Numbers and Technical Features

Coil Type	Color	Voltage	Frequency	Wattage 50/60 Hz	UL Thermal Class	Cable Length	
						mm	inch
LDL-11	Red	24 V~	50/60 Hz	5/4	A	1200	48
LDL-31	Black	120 V~	50/60 Hz	5/4	A	1200	48
LDL-41	Green	208 / 240 V~	50/60 Hz	5/4	A	1200	48
LDL-51	Blue	277 V~	50/60 Hz	5/4	A	1200	48