

2-Way Solenoid Valves Series 110, 200, 240

Normally Closed

Features

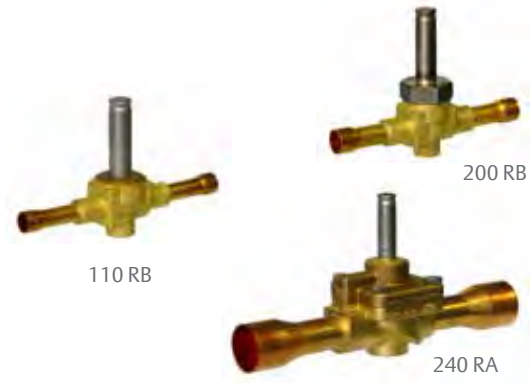
- Compact size
- No disassembly necessary for soldering

Standards

- 240 RA 16T11 and 20 are CE marked per PED

Accessories

- Actuation coil and cable assemblies available for various voltages, see 'Coils ESC and Cable Assemblies'



Capacity Data

Type	Nominal Capacity Q_n (kW)									Kv-Value m_3/h	Δp Min Bar
	Liquid										
	R134a	R22	R404A R507	R407C	R450A	R513A	R1234ze	R448A	R449A		
110 RB 2	3.5	3.8	2.5	3.6	2.6	2.7	2.3	3.8	3.7	0.2	0.05
200 RB 3	6.6	7.1	4.6	6.8	4.8	5.0	4.3	7.1	6.9	0.4	
200 RB 4	15.5	16.8	10.9	16.1	11.5	11.7	10.2	16.8	16.4	0.9	
200 RB 6	27.3	29.5	18.9	28.0	20.1	20.6	17.8	29.4	28.7	1.6	
240 RA 8	36.3	39.3	25.2	37.3	26.8	27.4	23.8	39.2	38.3	2.3	
240 RA 9	76.2	82.5	52.9	78.4	56.3	57.6	49.9	82.3	80.4	4.8	
240 RA 12	85.7	92.8	59.5	88.1	63	65	56	93	90	5.4	
240 RA 16	139.1	150.5	96.5	142.9	103	105	91	150	147	8.8	
240 RA 20	202.6	219.3	140.7	208.3	150	153	133	219	214	12.8	

Type	Nominal Capacity Q_n (kW)									Kv-Value m_3/h	Δp Min Bar
	Hot Gas										
	R134a	R22	R404A R507	R407C	R450A	R513A	R1234ze	R448A	R449A		
110 RB 2	1.6	2.0	1.7	2.1	1.4	1.5	1.3	2.0	2.0	0.2	0.05
200 RB 3	3.0	3.7	3.2	3.9	2.9	3.0	2.6	4.0	4.0	0.4	
200 RB 4	7.1	8.8	7.5	9.2	6.5	6.8	5.8	9.1	9.0	0.9	
200 RB 6	12.5	15.4	13.1	16.1	11.6	12.1	10.4	16.2	15.9	1.6	
240 RA 8	16.7	20.5	17.4	21.4	16.6	17.3	14.9	23.2	22.9	2.3	
240 RA 9	35.1	43.1	36.5	44.9	34.7	36.2	31.1	48.5	47.8	4.8	
240 RA 12	39.4	48.4	41.1	50.5	39.0	40.7	35.0	54.5	53.8	5.4	
240 RA 16	64.0	78.5	66.6	81.9	63.5	66.3	57.0	88.9	87.6	8.8	
240 RA 20	93.2	114.4	97.1	119.3	92.4	96.4	82.9	129.3	127.5	12.8	

Type	Nominal Capacity Q_n (kW)									Kv-Value m_3/h	Δp Min Bar
	Suction Gas										
	R134a	R22	R404A R507	R407C	R450A	R513A	R1234ze	R448A	R449A		
240 RA 8	4.2	5.6	4.6	5.2	3.7	4.0	3.4	5.1	5.0	2.3	0.05
240 RA 9	8.8	11.7	9.7	10.9	7.8	8.4	7.1	10.6	10.5	4.8	
240 RA 12	9.9	13.1	10.9	12.3	8.8	9.4	8.0	11.9	11.8	5.4	
240 RA 16	16.0	21.3	17.7	19.9	14.3	15.3	13.1	19.4	19.2	8.8	
240 RA 20	33.0	31.0	25.7	29.0	20.8	22.3	19.0	28.3	27.9	12.8	

Nominal Capacities at +38°C Condensing Temperature, +4°C Evaporating Temperature, Subcooling 1 K, Superheat 0K. 0.15 Bar Pressure Drop Between Valve Inlet and Outlet in Liquid Applications. 1 Bar Pressure Drop for Hot Gas Applications. +18 °C Suction Gas Temperature. Note: See "Controls Navigator" for Selection

Selection Guide

Type	Part No.	Connection Solder / ODF		
		mm	Inch	
110 RB 2	T2	801 217	6	
	T2	801 210		1/4
	T3	801 209	10	
200 RB 3	T3	801 239	10	
200 RB 4	T3	801 176	10	
	T3	801 190		3/8
	T4	801 178	12	
	T4	801 179		1/2
200 RB 6	T4	801 182	12	
	T4	801 183		1/2
	T5	801 186	16	5/8
240 RA 8	T5	801 160		5/8
	T7	801 143	22	7/8
240 RA 9	T5	801 161	16	5/8
	T7	801 162	22	7/8
	T9	801 142		1-1/8
240 RA 12	T7	801 163	22	7/8
	T9	801 144		1 1/8
240 RA 16	T9	801 164		1 1/8
	T11	801 166	35	1 3/8
240 RA 20	T11-M	801 172	35	1 3/8
	T13-M	801 224	42	
	T13-M	801 173		1 5/8
	T17-M	801 174	54	2 1/8

Special Versions:

- Manual stems standard on Series 240 RA 20.

Options:

- Actuation coils available for various voltages, see 'Coils ESC and Cable Assemblies'