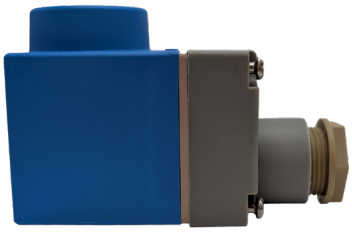
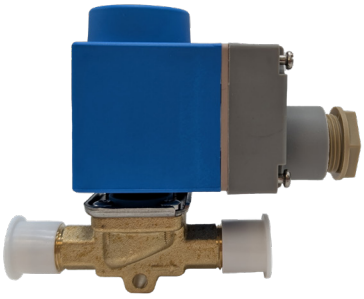
Solenoid Valves

EVR Series



Solenoid Coil

Solenoid Valve



Solenoid Valve and Coil

1 Year Limited Warranty

CE

Description

The Ranco® EVR Series Solenoid Valves are designed to be used in refrigeration and air conditioning systems for controlling refrigerant flow in liquid, suction and hot gas lines. These solenoid valves are compatible for use with a wide range of refrigerant types, including R134A, R404A, and R407C. The solenoid valves and coils are constructed using high-quality materials to ensure durability and reliable performance in HVACR applications.

Features and Benefits

- Designed to handle a maximum operating pressure differential (MOPD) of 3.0 MPa, making them suitable for high-pressure applications
- Compatible with HCFC and HFC refrigerants, including: R22/R407C, R404A/R507, R410A, R134A, R407A, and R23
- Valve bodies and solenoid coils are interchangeable, providing flexibility to meet any application requirement
- Offered in normally closed (NC) type, ensuring the valve remains closed when de-energized
- Valves are offered in flare (SAE) and solder (ODF) connection styles
- Flare (SAE) style connection valves are available in sizes up to 3/4”
- Solder (ODF) style connection valves are available in sizes up to 2-1/8”
- Solenoid coils are available with various power supplies, including AS and DC versions, with allowable voltage fluctuations of +10% to -15%

Applications

- HVAC systems
- Air conditioning systems
- Refrigeration systems
- Walk-in cold rooms and freezers
- Display freezers
- Heat pumps

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Specifications

Applicable Refrigerant	HCFC or HFC
Applicable Medium Temperature	-13°F to 221°F (-25°C to 105°C)
Applicable Ambient Tempertature of Solenoid	-13°F to 176°F (-25°C to 80°C)
Maximum Operating Pressure	3.0MPa
Standard Voltage of Solenoid	AC 380V, AC 220V, 50/60 Hz
Allowable Voltage Fluctuation For Solenoid	+10% to -15%
Connection of Solenoid	IP65 with Terminal Box

Connection Type				P (bar)		Max Operating Pressure (bar)	Kv(m3/h)
Model	**Flare**	**Model**	**Welded**	**Min**	**Max MOPD Liquid**		
RSV-EVR03-2FS	1/4” SAE	RSV-EVR03-2WO	1/4” ODF	0	30	40	0.27
RSV-EVR03-3FS	3/8” SAE	RSV-EVR03-3WO	3/8” ODF	0	30	40	0.27
RSV-EVR06-3FS	3/8” SAE	RSV-EVR06-3WO	3/8” ODF	0.05	30	40	0.8
RSV-EVR06-4FS	1/2” SAE	RSV-EVR06-4WO	1/2” ODF	0.05	30	40	0.8
RSV-EVR10-4FS	1/2” SAE	RSV-EVR10-4WO	1/2” ODF	0.05	30	40	1.9
RSV-EVR10-5FS	5/8” SAE	RSV-EVR10-5WO	5/8” ODF	0.05	30	40	1.9
RSV-EVR15-5FS	5/8” SAE	RSV-EVR15-5WO	5/8” ODF	0.05	30	40	2.6
RSV-EVR15-6FS	3/4” SAE	RSV-EVR15-6WO	3/4” ODF	0.05	30	40	2.6

Model	Nominal Refrigeration Capacity (kW)											
	Liquid				Vapor				Hot Gas			
	R22	R134a	R404A/R507	R407C	R22	R134A	R404A/R507	R407C	R22	R134A	R404A/R507	R407C
RSV-EVR03	5.40	5.00	3.80	5.08					2.50	2.00	2.00	2.43
RSV-EVR06	16.10	14.80	11.20	15.13	1.80	1.30	1.60	1.60	7.40	5.90	6.00	7.18
RSV-EVR10	38.20	35.30	26.70	35.91	4.30	3.10	3.90	3.69	17.50	13.90	14.30	16.99
RSV-EVR15	52.30	48.30	36.50	49.16	5.90	4.20	5.30	5.43	24.00	19.00	19.60	23.28

Solenoid Valve Replacement Information

Ranco Part Numbers	Connections Size (Imperial)	Connection Type	Description	Danfoss Part Numbers	Sanhua Part Numbers
RSV-EVR03-2FS	1/4”	SAE	EVR Solenoid Valve 1/4IN NC Flare SAE .27Kv	032F8107	MDF-08040
RSV-EVR03-3FS	3/8”	SAE	EVR Solenoid Valve 3/8IN NC Flare SAE .27Kv	032F8116	MDF-08041
RSV-EVR06-3FS	3/8”	SAE	EVR Solenoid Valve 3/8IN NC Flare SAE .8Kv	032F8072	MDF-08042
RSV-EVR06-4FS	1/2”	SAE	EVR Solenoid Valve 1/2IN NC Flare SAE .8Kv	032F8079	MDF-08043
RSV-EVR10-4FS	1/2”	SAE	EVR Solenoid Valve 1/2IN NC Flare SAE 1.9Kv	032F8095	MDF-08044
RSV-EVR10-5FS	5/8”	SAE	EVR Solenoid Valve 5/8IN NC Flare SAE 1.9Kv	032F8098	MDF-08045
RSV-EVR15-5FS	5/8”	SAE	EVR Solenoid Valve 5/8IN NC Flare SAE 2.6Kv	032F8101	MDF-08046
RSV-EVR15-6FS	3/4”	SAE	EVR Solenoid Valve 3/4IN NC Flare SAE 2.6Kv	032F8100	
RSV-EVR03-2SO	1/4”	ODF	EVR Solenoid Valve 1/4IN NC Solder ODF .27Kv	032F1206	MDF-08002
RSV-EVR03-3SO	3/8”	ODF	EVR Solenoid Valve 3/8IN NC Solder ODF .27Kv	032F1204	MDF-08003
RSV-EVR06-3SO	3/8”	ODF	EVR Solenoid Valve 3/8IN NC Solder ODF .8Kv	032F1212	MDF-08004
RSV-EVR06-4SO	1/2”	ODF	EVR Solenoid Valve 1/2IN NC Solder ODF .8Kv	032F1209	MDF-08005
RSV-EVR10-4SO	1/2”	ODF	EVR Solenoid Valve 1/2IN NC Solder ODF 1.9Kv	032F1217	MDF-08006
RSV-EVR10-5SO	5/8”	ODF	EVR Solenoid Valve 5/8IN NC Solder ODF 1.9Kv	032F1214	MDF-08007
RSV-EVR15-5SO	5/8”	ODF	EVR Solenoid Valve 5/8IN NC Solder ODF 2.6Kv	032F1228	MDF-08027
RSV-EVR15-6SO	3/4”	ODF	EVR Solenoid Valve 3/4IN NC Solder ODF 2.6Kv		
RSV-EVR-15-7SO	7/8”	ODF	EVR Solenoid Valve 7/8IN NC Solder ODF 2.6Kv	032F1225	MDF-08009
RSV-EVR-20-7SO	7/8”	ODF	EVR Solenoid Valve 7/8IN NC Solder ODF 5Kv	032F1240	MDF-08010
RSV-EVR-20-9SO	1-1/8”	ODF	EVR Solenoid Valve 1-1/8IN NC Solder ODF 5Kv	032F1244	MDF-08011
RSV-EVR-25-9SO	1-1/8”	ODF	EVR Solenoid Valve 1-1/8IN NC Solder ODF 10.5Kv	032F2201	MDF-08014
RSV-EVR-25-11SO	1-3/8”	ODF	EVR Solenoid Valve 1-3/8IN NC Solder ODF 10.5Kv	032F2208	MDF-08015
RSV-EVR-32-11SO	1-3/8”	ODF	EVR Solenoid Valve 1-3/8IN NC Solder ODF 16Kv		
RSV-EVR-40-13SO	1-5/8”	ODF	EVR Solenoid Valve 1-5/8IN NC Solder ODF 16Kv	042H1110	MDF-08018
RSV-EVR-32-13SO	1-5/8”	ODF	EVR Solenoid Valve 1-5/8IN NC Solder ODF 21Kv	042H1104	MDF-08017
RSV-EVR-40-17SO	2-1/8”	ODF	EVR Solenoid Valve 2-1/8IN NC Solder ODF 21Kv	042H1112	MDF-08019

Solenoid Coil Replacement Information

Ranco Part Numbers	Description	Danfoss Part Numbers	Sanhua Part Numbers
RSV-EVR-SC240VC	EVR Solenoid Coils AC240 Volt 50/60 Hz with 1M Cable 10W	018F6252	
RSV-EVR-SC024VT	EVR Solenoid Coils AC24 Volt 50/60 Hz with Terminal Box 10W	018F6707	MDF-60001
RSV-EVR-SC110VT	EVR Solenoid Coils AC110 Volt 50/60 Hz with Terminal Box 10W	018F6730	MDF-60002
RSV-EVR-SC240VT	EVR Solenoid Coils AC240 Volt 50/60 Hz with Terminal Box 10W	018F6702	MDF-60003
RSV-EVR-SC220VT	EVR Solenoid Coils AC220/230 Volt 50/60 Hz with Terminal Box 10W	018F6701	MDF-60003
RSV-EVR-SC024VDCT	EVR Solenoid Coils DC24 Volt with Terminal Box 20W	018F6857	MDF-60004