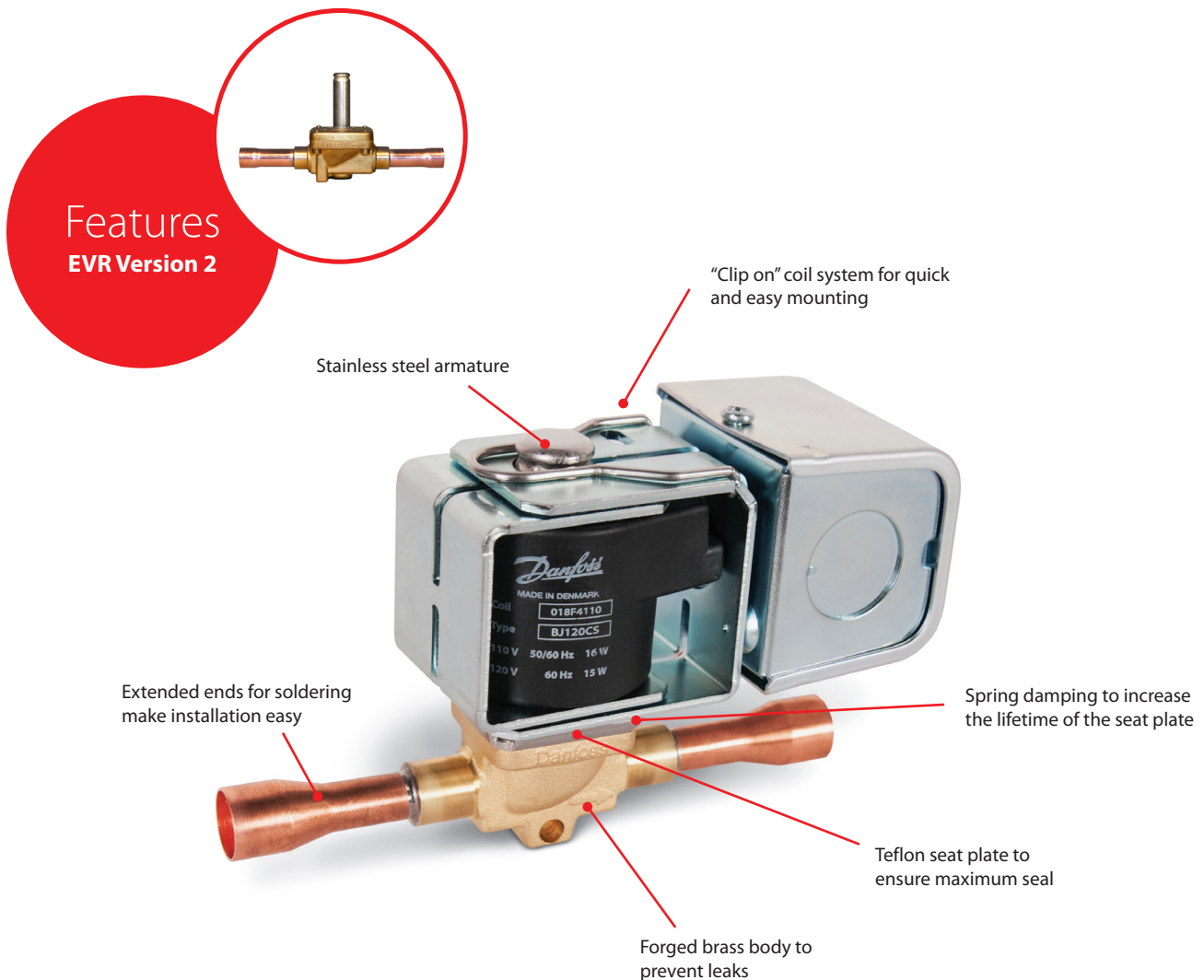


## EVR Version 2 - Solenoid Valves

EVR Version 2 solenoid valves are direct or servo-operated solenoid valves for liquid, suction, and hot gas lines. They are suitable for all refrigeration, freezing, and air conditioning applications and are compatible with fluorinated refrigerants. The valves can be delivered as normally open or closed as well as with or without manual operation.



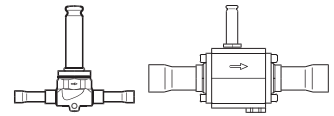
### Facts

#### Applications:

- Traditional refrigeration
- Freezers
- Air conditioning units
- Commercial refrigeration
- Supermarket Refrigeration
- Refrigerants: Use with any fluorinated refrigerant
- Maximum working pressure:
  - EVR 2–EVR 8: 655 psig
  - EVR 10: 655 psig
  - EVR 15–EVR 40: 655 psig
- Temperature range:  $-40^{\circ}\text{F}$  to  $+220^{\circ}\text{F}$
- Connections:
  - Flare connections up to  $\frac{5}{8}$  inch
  - Solder connections up to  $2\frac{1}{8}$  inch
- Available in normally open and normally closed
- Available with or without manual stem
- Coil available with junction box (NEMA 2) and conduit boss (NEMA 4)

# Technical data and ordering

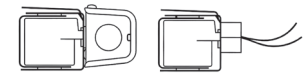
## EVR Version 2 Solenoid valves



Danfoss Type	Rated capacity (liquid tons)			Solder ODF connection (in.)	Port size (in.)	Max. working pressure (psig)	Danfoss Code No. <sup>1</sup>	
	R-22	R-134a	R-404A				with manual stem	without manual stem
	R-407C		R-507A					
EVR 3	1.66	1.54	1.07	¼	⅜	655		<b>032F1206</b>
EVR 3	1.66	1.54	1.07	⅜	⅜	655		<b>032F1204</b>
EVR 6	5.47	5.07	3.51	⅜	15/64	655	<b>032L7116</b>	<b>032L7115</b>
EVR 6	5.47	5.07	3.51	½	15/64	655	<b>032L7144</b>	<b>032L1209</b>
EVR 8	6.52	6.03	4.18	½	5/16	655	<b>032L7148</b>	<b>032L7121</b>
EVR 10	11.50	10.64	7.38	5/8	3/8	655	<b>032L7149</b>	<b>032L1214</b>
EVR 15	17.71	16.39	11.37	5/8	9/16	655		<b>032L1228</b>
EVR 18	23.18	21.46	14.88	7/8	19/32	655	<b>032L1004</b>	
EVR 20	36.76	34.04	23.60	7/8	7/8	655	<b>032L1254</b>	<b>032L1240</b>
EVR 22	41.93	38.82	26.92	1 1/8	15/16	655	<b>032L7137</b>	<b>032L7145</b>
EVR 25	60.19	55.72	38.64	1 3/8	1	655	<b>032L2207</b>	<b>032L2208</b>
EVR 32	102.85	95.23	66.03	1 5/8	7/8	655	<b>032L1103</b>	<b>032L1104</b>

<sup>1</sup> Valve body is normally closed (NC) and excludes coil. Additional code nos. available in Coolselector or contact Danfoss.

## Coils for Solenoid Valves

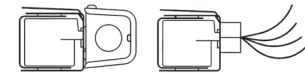


Voltage (V)	Frequency (Hz)	Power consumption (W)	Danfoss Type (junction box) <sup>2</sup>	Length of wire (in.)	Danfoss Code no.	Danfoss Type (conduit boss) <sup>3</sup>	Length of wire (in.)	Danfoss Code No.
24	50/60	14	BJ024CS	7	<b>018F4100</b>	BX024CS	18	<b>018F4102</b>
110	50/60	16	BJ120CS	7	<b>018F4110</b>	BX120CS	18	<b>018F4112</b>
120	60	15						
208-240	60	14	BJ240CS	7	<b>018F4120</b>	BX240CS	18	<b>018F4122</b>
230	50	17						

<sup>2</sup> Enclosure rating for BJ coils is NEMA 2 ~ IP 12-32

<sup>3</sup> Enclosure rating for BX coils is NEMA 4 ~ IP 54

## Dual Voltage/Dual Frequency Coil



Coil Type	Voltage (V)	Frequency (Hz)	Power consumption (W)	Danfoss Type (junction box) <sup>4</sup>	Length of wire (in.)	Danfoss Code no.	Danfoss Type (conduit boss) <sup>5</sup>	Length of wire (in.)	Danfoss Code No.
EVR	110	50	12	BT240CS	7	<b>018F4180</b>	BU240CS	7	<b>018F4181</b>
	110-120	60							
	230	50							
	208-240	60							

<sup>4</sup> Enclosure rating for BT coils is NEMA 2 ~ IP 12-32

<sup>5</sup> Enclosure rating for BU coils is NEMA 4 ~ IP 54

## Spare Parts and Accessories

Description	Version(s) applied to	Type(s) applied to	Danfoss Code No.
Permanent magnet coil for servicing and testing	1, 2	all	<b>018F0091</b>
Service kit (NC); O-ring, (4) screws, armature assembly, rubber gasket, compression spring	1, 2	EVR 3	<b>032F0181</b>
Seal kit; O-ring for armature tube, rubber gasket, O-ring for steel cover, support ring	1	EVR 6, 8	<b>032F8165</b>
Service kit (NC); diaphragm, O-ring for armature tube, (4) screws T20, (4) screws T15, armature assembly, rubber gasket, O-ring for steel cover, support ring, compression spring	1	EVR 6, 8	<b>032F8166</b>
Seal kit; O-ring, rubber gasket, support ring	2	EVR 6, 8	<b>032L0548</b>
Service kit (NC); diaphragm, O-ring, (4) screws, armature assembly, rubber gasket, support ring, compression ring	2	EVR 6, 8	<b>032L0550</b>
Service kit (NC); diaphragm assembly, O-ring, (4) screws, armature assembly, rubber gasket, compression spring	1	EVR 10	<b>032F0185</b>
Service kit (NC); diaphragm, O-ring, (4) screws, armature assembly, rubber gasket, support ring, compression ring	2	EVR 10	<b>032L0552</b>
Seal kit; O-ring for armature tube, (3) rubber gasket (1 ea. for EVR 10, 15, 20) (4) refrigeration gasket (2 ea. for EVR 15, 20)	1	EVR 10, 15, 20	<b>032F8196</b>
Service kit (NC); diaphragm, O-ring, (4) screws, armature assembly, rubber gasket, (2) refrigeration gasket (flange connections), compression ring	2	EVR 15, 18, 20, 22	<b>032L0554</b>
Service kit (NC); diaphragm assembly, O-ring, (4) screws, armature assembly, rubber gasket, refrigeration gasket, compression spring	1	EVR 15, 18	<b>032F0187</b>
Service kit (NC); diaphragm assembly, O-ring, (4) screws, armature assembly, rubber gasket, refrigeration gasket, compression spring	1	EVR 20, 22	<b>032F0189</b>
Manual spindle	1	EVR 20, 22	<b>032F0193</b>
Seal kit; (2) Al. gasket, (3) O-rings, rubber gasket	1, 2	EVR 25	<b>032F2326</b>
Piston service kit; (2) O-ring, compression spring, piston assembly, insert block, rubber gasket, piston ring	1, 2	EVR 25	<b>032F3236</b>
Piston service kit; (4) O-rings, Al. gasket, piston assembly, insert block, gasket, piston ring, compression spring, refrigeration gasket	1, 2	EVR 32	<b>042H0172</b>
Pilot service kit; (2) Al. gaskets, O-ring, orifice, armature tube assembly, armature, armature assembly, compression spring	1, 2	EVR 25, 32	<b>042H0165</b>
Seal kit; (3) O-rings, (2) Al. gaskets	1, 2	EVR 32	<b>032F2327</b>

To determine the version of EVR, read the code number engraved on the armature. Codes beginning with 032F, 032G and 042H are V1; codes beginning with 032L are V2.