

AKV/AKVH—Electric Expansion Valves



AKV and AKVH valves are pulse modulating electric expansion valves. and feature a wide range of replaceable coils for both DC and AC, quiet and energy efficient operation, a long operating life, and the ability to operate as both as expansion and solenoid valves. AKV valves are designed for R-22/R-407C, R-404A/R-507, R-410A, R-134a, R-407A, R-23, and more and should be paired with a Danfoss BJ, BX, BT, or BU coil (page 8). AKVH valves are designed for CO₂ and should be paired with a high MOPD BX or BJ coil (page 8).

AKV Valves for Florinated Refrigerants

Danfoss Type	Rated Capacity (tons)			Solder ODF Connection (in.)		Danfoss Code No.
	R-22	R-134a	R-404A	Inlet (in.)	Outlet (in.)	
AKV 10-1	0.3	0.3	0.23	3/8	1/2	068F1210
AKV 10-2	0.5	0.4	0.37	3/8	1/2	068F1213
AKV 10-3	0.7	0.6	0.57	3/8	1/2	068F1216
AKV 10-4	1.2	1	0.88	3/8	1/2	068F1219
AKV 10-5	1.8	1.5	1.39	3/8	1/2	068F1222
AKV 10-6	2.9	2.4	2.22	3/8	1/2	068F1225
AKV 10-7	4.6	3.8	3.55	1/2	5/8	068F1228
AKV 15-1	7.3	6	5.57	3/4	3/4	068F5035
AKV 15-2	11.6	9.6	8.93	3/4	3/4	068F5036
AKV 15-3	18.3	15.2	14.05	7/8	7/8	068F5037
AKV 15-4	29	24.1	22.26	1 1/8	1 1/8	068F5038

Rated capacities are based on condensing temperature of 90 °F, liquid temperature of 82 °F, and evaporating temperature of 40 °F.

AKV valves should be paired with standard BJ/BX coils (page 8)

AKVH Valves for CO₂

Danfoss Type	Rated Capacity CO ₂ (tons)		Solder ODF Connection (in.)		Danfoss Code No.
	Refrigeration	Freezing	Inlet (in.)	Outlet (in.)	
AKVH 10-1	0.3	0.6	3/8	1/2	068F4079
AKVH 10-2	0.5	1	3/8	1/2	068F4080
AKVH 10-3	0.7	1.5	3/8	1/2	068F4081
AKVH 10-4	1.2	2.5	3/8	1/2	068F4082
AKVH 10-5	1.9	3.9	3/8	1/2	068F4083
AKVH 10-6	3	6.2	3/8	1/2	068F4084

AKVH valves should be paired with high MOPD BJ/BX coils (page 8).

AKV/AKVH Orifices and Filter/Gasket Kits

Description	Danfoss Code No.
AKV 10 Orifice Kit #0–#3	068F5283
AKV 10 Orifice Kit #4–#6	068F5284
AKV 10 Orifice Kit #7–#8	068F5285
AKV 15 Orifice Kit #1	068F5265
AKV 15 Orifice Kit #2	068F5266
AKV 15 Orifice Kit #3	068F5267
AKV 15 Orifice Kit #4–#6	068F5268
AKV 10 Armature Kit	068F0541
AKV 15 Armature Kit	068F5045
Filter and Gasket Set	068F0540