Discharge Temperature Control Valve (DTC)

INSTALLATION INSTRUCTIONS
SD-473 / 12132021

IMPORTANT! Always refer to the application guidelines from the compressor manufacturer for detailed installation and application instructions (for example: Copeland AE-1383 R5 and AE-1425 R4.)

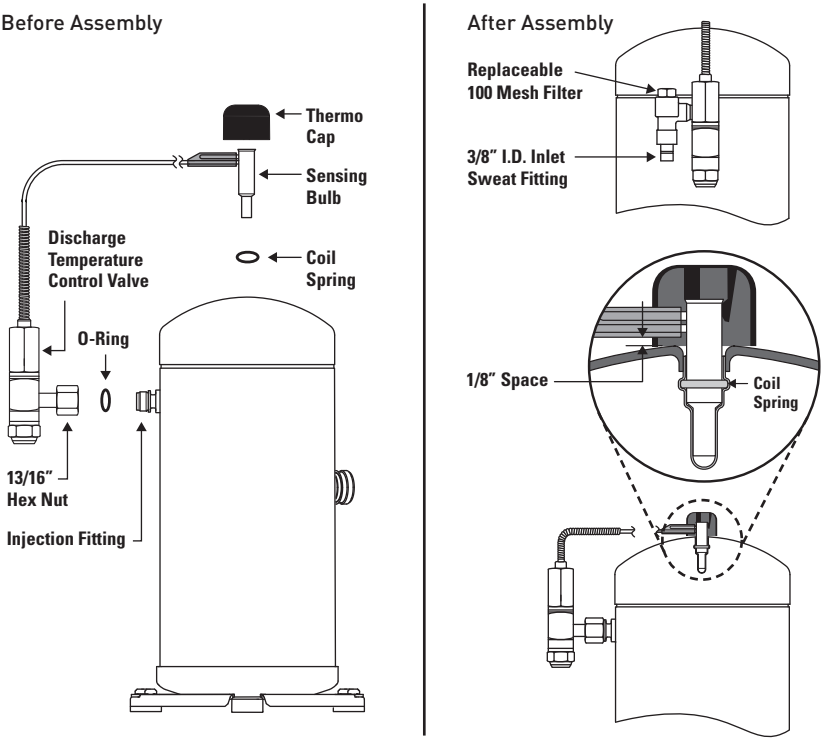
Sporlan Item Number	Valve Type	Temperature Setting °F	Inlet Connection	Outlet Connection	Compressor Manufacturer Part Number Cross Reference	
					OEM Kit Part Number	Aftermarket Kit Part Number
155149	Y1183	193	3/8" ODF Elbow with Serviceable Strainer	11/16"-16 RL	510-0472-00	998-0500-00
168929	Y1183-5	250	3/8" ODF Elbow with Serviceable Strainer	1"-14 RL	510-0472-08	998-0231-06/07/09 998-0500-03/11 998-1000-52
169005	Y1183-6	250	3/8" ODF Elbow with Serviceable Strainer	3/8" ODM	510-0894-00	998-0746-00
155150	Y1183-1	193	1/4" SAE Elbow with Strainer	11/16"-16 RL	510-0472-01	998-0500-01
155438	Y1183	250	3/8" ODF Elbow with Serviceable Strainer	11/16"-16 RL	510-0959-00	998-0862-00 998-0500-12

DTC VALVE ASSEMBLY

1. Verify that the coil spring is properly seated in the compressor's sensing bulb well groove as shown. This part is supplied by the compressor manufacturer and is required for proper installation.
2. Mount DTC valve to the compressor's injection fitting.
   a. For DTC valves with mechanical outlet connections, thread valve onto the injection fitting using the gasket provided and torque to a value of 216-240 in-lbs.
   b. For DTC valves with copper sweat outlet connections, valve should be inserted all the way to the stop on the injection fitting prior to brazing. Note that the injection tubing design of some compressors may include o-rings. A wet rag or other suitable form of heat protection should be used when brazing the DTC valve to the injection line to prevent damage to the compressor or valve.
3. Press fit the sensing bulb into the sensing bulb well on the top of the compressor. The sensing bulb should bottom out in the compressor's sensing bulb well.
4. Snap the thermo cap onto the sensing bulb.
5. The heat shrink protected sensing bulb capillary tube should be approximately 1/8" off the top of the compressor as shown.

6. The sensing bulb temperature should not exceed 293°F during operation.
7. Ensure liquid refrigerant is available to the DTC valve inlet prior to starting the compressor. Failure to supply liquid refrigerant to the DTC valve will result in damage to the valve and the compressor.

Bulb and Cap Assembly



⚠ WARNING – USER RESPONSIBILITY

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