

7.1.1 DTC Valve Specifications

Set Point: $89.4^{\circ}\text{C} \pm 2.4^{\circ}\text{C}$ ($193^{\circ}\text{F} \pm 5^{\circ}\text{F}$)

Liquid Line Connection: $3/8"$

7.1.2 Valve Installation

The valve bulb must be installed in the top cap thermal well to adequately control scroll temperatures. The valve should be tightened on the injection fitting to a torque of 24-27 Nm (216-245 in. lbs.) It is recommended the valve is located perpendicular to the compressor orientation however it will function properly in any orientation. The capillary tube connecting the valve to the bulb should be positioned at least 13 mm away from the side of the scroll to avoid contact during operation.

The DTC Valve is supplied with an insulating cap which is applied to the top of the compressor, the valve cap could be replaced with thermal grease. This grease should be applied (minimum of 6 mm thick) to insulate and protect the valve. It is recommended to spread a thin film of thermal grease around the DTC Valve bulb before installing into the top cap well. We also recommend that a shut off valve in the liquid line is installed before the DTC valve, for ease of service.

7.1.3 Compressor or Valve Service

Replacing a ZF compressor using the DTC Valve: We recommend replacing both the DTC Valve and the compressor at the same time. If you wish to use the existing DTC Valve, the valve filter should be cleaned and/or replaced.

Replacing a capillary tube on a ZF compressor: The DTC Valve is not backward compatible on compressors with no thermal well in the top cap.

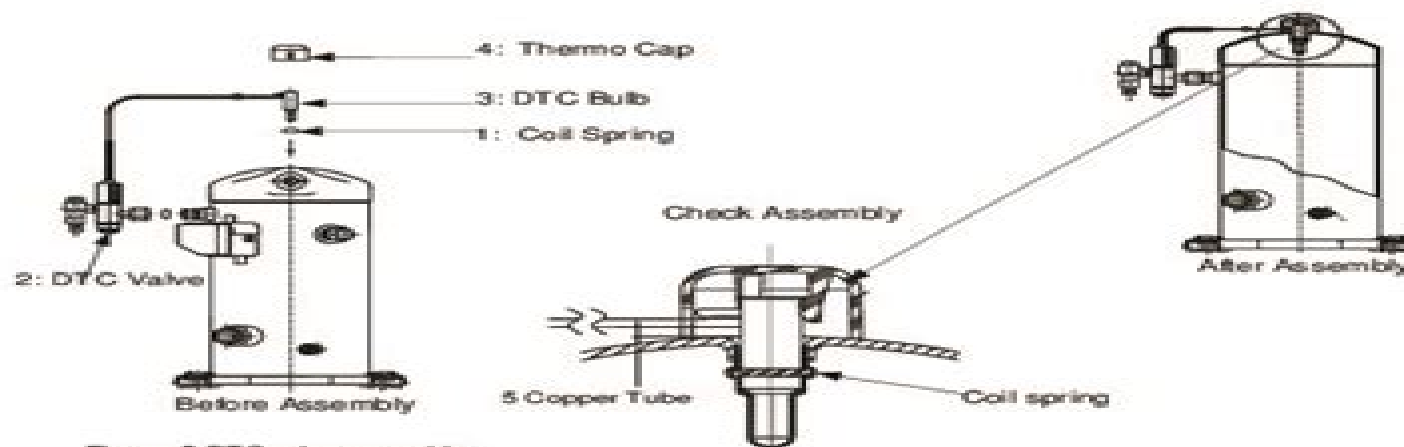


Figure 2 DTC valve assembly

Assembly Procedure

- 1 Verify Coil Spring is seated in the "Groove" located in the well on top of the compressor.
- 2 Thread the Discharge Temperature (DTC) valve onto the injection stub on the side of the compressor.
The Torque setting should be 24-27N/M (216-240 in/Lbs)
- 3 Press the DTC bulb into the well on top of the compressor until the DTC bottoms out in the well.
- 4 Snap the Thermo. cap onto the DTC bulb on top of the compressor
- 5 The copper tube from the DTC bulb should be approximately 0.125mm (1/8") from the top of the compressor

R22 Copeland Digital Scroll Compressor Manual

Siddappa N.Byrareddy



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The Enigmatic Realm of **R22 Copeland Digital Scroll Compressor Manual**: Unleashing the Language is Inner Magic

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Table of Contents R22 Copeland Digital Scroll Compressor Manual

1. Understanding the eBook R22 Copeland Digital Scroll Compressor Manual
 - The Rise of Digital Reading R22 Copeland Digital Scroll Compressor Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying R22 Copeland Digital Scroll Compressor Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an R22 Copeland Digital Scroll Compressor Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from R22 Copeland Digital Scroll Compressor Manual
 - Personalized Recommendations
 - R22 Copeland Digital Scroll Compressor Manual User Reviews and Ratings
 - R22 Copeland Digital Scroll Compressor Manual and Bestseller Lists

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 - R22 Copeland Digital Scroll Compressor Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of R22 Copeland Digital Scroll Compressor Manual
 - Highlighting and Note-Taking R22 Copeland Digital Scroll Compressor Manual
 - Interactive Elements R22 Copeland Digital Scroll Compressor Manual
8. Staying Engaged with R22 Copeland Digital Scroll Compressor Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers R22 Copeland Digital Scroll Compressor Manual
9. Balancing eBooks and Physical Books R22 Copeland Digital Scroll Compressor Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection R22 Copeland Digital Scroll Compressor Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine R22 Copeland Digital Scroll Compressor Manual
 - Setting Reading Goals R22 Copeland Digital Scroll Compressor Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of R22 Copeland Digital Scroll Compressor Manual
 - Fact-Checking eBook Content of R22 Copeland Digital Scroll Compressor Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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