




# KIT DISCHARGE NON-RETURN VALVE (2") PLUNGER ASSEMBLY

100419

 <p><b>Installation and servicing of Danfoss Turbocor® compressors by qualified and product trained personnel only. Follow these instructions and sound refrigeration/electrical/servicing practices relating to installation, commissioning, maintenance and service.</b></p>			
<p>Consult the appropriate DTC Service Manual on <a href="http://turbocor.danfoss.com">turbocor.danfoss.com</a> for detailed service instructions.</p>	<p><b>Never power compressor without covers in place and secured.</b></p> <p><b>Removing the mains input cover will expose you to a voltage hazard of up to 575V. Ensure the mains input power is off and locked out before removing cover.</b></p> <p><b>Before removing top cover, wait at least 20 minutes after isolating AC power to allow the high voltage capacitors to discharge.</b></p>	<p>Always wear appropriately rated safety equipment when working around equipment and/or components energized with high voltage.</p> <p><b>This equipment contains hazardous voltages that can cause serious injury or death.</b></p>	<p><b>Recover all refrigerant from compressor in accordance with local codes and ensure pressure is fully vented before the removal of refrigerant containing components.</b></p>

1 - Introduction:

DISCHARGE NON-RETURN VALVE (2") PLUNGER ASSEMBLY Removal and Installation Instructions.

2 - Removing Refrigerant from Compressor:

- Recover refrigerant from compressor in accordance with local codes and practices.

3 - Removal Instructions:

1. Remove four M10 x 30 Screws and spring washer which secure the flange to the compressor discharge port.
2. Gently remove non return valve.
3. Remove the 'O' Ring placed between the flange and the compressor discharge port.
4. Inspect the valve body and flange inside the surface to ensure that the valve operating area is clean and free of all contamination or wear materials.

4 - Installation Instructions:






- Note: It is far more desirable to take care in installation identifying and inspecting 'O' Rings than to repeatedly overhaul components with faulty seals.
1. Ensure that the area used for installations is clean and free from all contamination.



2. Remove each 'O' Ring that is to be installed from its package and inspect it for defects such as blemishes, abrasions, cuts, or punctures.
3. Prior to installation, lubricate the 'O' Ring, and all the surfaces that they must slide over with a light coat of the LUBRICATION-SUPER 'O' LUBE-2G, which has already been shipped with your 'O' Rings.
4. Assembly must be made with care so that the 'O' Ring is properly placed in the groove and not damaged as the housing is closed.
5. Avoid rolling or twisting the 'O' Ring when maneuvering it into place on the check valve.
6. Insert the lower spring retainer into the lower body of the valve body, aligning the mating holes of the retainer with the single mating hole of the inner valve.
7. Fit the check valve spring tip into the mating hole. To facilitate assembly, hold the spring and retainer together to fit the spring tip more easily retain in place.
8. Align the spring end into the upper retainer mating hole. Make sure the notches are face up. The retainer will fit tightly into the body of valve.
9. Fit the Check valve (poppet) into the four notches of the retainer.
10. Insert the slotted snap ring into the grooved collar of the valve body to secure the poppet assembly in place. If not secure, retry again - use a small screwdriver to pry off the snap ring.
11. Screw the Schrader valve to the top of valve. Tighten half - Union and cap.
12. Screw four bolts and lock washers into four corners of the valve body.
13. Torque the bolts to a maximum 22 Nm.
14. Carry out a leak test then start the compressor.

5 - Kit Contents

Kit numbers	Compressor models
100419	ALL TT MODELS

QTY	Part(s) Description	Picture(s)
1	PLUNGER ASSEMBLY, NON-RETURN VALVE (2") DISCHARGE (R22& R134a)	
1	'O' RING #2-239-C1278-80 (Suction)	
1	'O' RING #2-236-C1278-80 (Discharge)	
1	'O' RING #2-215-C1278-80 (Economizer)	
1	LUBRICATION-SUPER 'O' LUBE-2G	

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