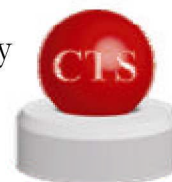


CTS-10459

1100, 1200 Vespel[®] Rotor Seal

Similar to: Agilent part number 0100-1853
Rheodyne part number 7750-020

Chromatography Technology
Services Corp.



Technical Data Sheet

1.0 Description

This is a Vespel[®] rotor seal designed to operate with the Agilent 1100 & 1200 HPLC systems. It replaces Agilent part number 0100-1853.

2.0 Specifications

Pressure

Max 6000psi (400bar) (with Stainless steel sample loop)

Max 5000psi (with PEEK sample loop)

Wetted Materials

Vespel[®]

Operating Range

4°C - 80°C

pH Range

0-10

3.0 Replacement Frequency

The rotor seal generally is not part of a required maintenance protocol. Indications that the rotor may need replaced are poor reproducibility of injection volume or a leak at the injection valve.

4.0 Installation Information

CTS's parts are designed to be compatible and interchangeable with the OEM parts. The following instructions are provided as a



general outline of the process to follow for correct installation. However, it is not intended to be exact or to replace the OEM process. Please refer to your instrument service or maintenance manual in order to follow the exact installation procedure for this part.

1. Remove all of the capillary lines attached to injection valve ports making sure to label or identify the position of each line prior to removal.
2. Remove the three set stator screws using an Allen wrench.
3. Remove the stator head, stator face, and ring.
4. Pull the rotor seal from the 3 set pins on the valve body.
5. Remove the isolation seal and replace the isolation seal if necessary (open or spring side facing the valve body).
6. Mount the new rotor seal with the grooves facing the stator. Line up the rotor seal so that the notch on the rotor seal's metal band aligns with the rotor pin.
7. Re-install the stator ring, stator face and stator head assembly.

8. Replace the three stator screws. Gradually tighten to each screw finger tight, alternating among the three while tightening down and then tighten each until secure or no more than 1/4 turn past fingertight.

5.0 Operating Recommendation:

The typical cause of failure at the rotor seal is wear of the Vesepel[®] material. A major cause of wear is the use of buffered mobile phases. To help improve the lifetime of the rotor seal it is recommended that the system and injection valve

be flushed with either the mobile phase without the buffer addition or with an aqueous solution. Be sure to toggle the valve through both the by-pass and inject positions to flush all of the mobile phase salts from the injection port.

6.0 Warranty

CTS warrants this product for 60 days from shipment. CTS warrants the product to be free of defects in material and workmanship. We will replace without cost a product which is shown to exhibit such defects. Returns can only be accepted if a **Return Authorization Number (RA)** is obtained prior to shipment. Please call in order to get an RA.

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Contact Us:

Irl Ph: 01 4523432

UK Ph: 08452 30 40 30

Web: www.carlstuart.com

Email: info@carlstuart.com

11975 Portland Ave. S.
Suite 116
Burnsville, MN 55337

800-682-6480
952-895-8292
ctshplc.com