UNITED TECHNOLOGIES CARRIER	Commercial Division Carrier Corporation	BULLETIN: CA-SB-17-70-12 DATE: 2/20/70 PAGE: 1 OF: 4
SERVICE BULLETIN		SUPERSEDE BULLETIN: DATE: PAGE: OF:
SUBJECT: SUCTION DAMPER TEFLON "V" RING PACKING		

PURPOSE

To transmit the recommended procedure for replacing a John Crane mechanical seal with a Teflon "V" ring packing.

MACHINES AFFECTED

17M,P 50 and 60 sizes equipped with a John Crane mechanical seal.

BACKGROUND

All 50 and 60 size machines built prior to 1964 used the John Crane mechanical type seal. The suction damper was redesigned to incorporate a Teflon "V" ring packing to seal the damper shaft and, in 1964, replaced the John Crane mechanical seal on 50 and 60 size machines.

PROCEDURE

A Teflon "V" ring packing, Carrier Part No. KK71HT021 or KK71HT020, is available from the Replacement Components Division. Two sets of "V" rings must be ordered for each conversion. To convert to a Teflon "V" ring type packing:

1) Remove the oil cup and adjoining pipe assembly.

2) Remove the stuffing box gland and existing seal ring.

3) Remove the old seal assembly and discard it.

4) Examine the stuffing box and damper shaft. The surface of the shaft must be smooth and free of rust.

5) Clean the existing oil cup hole with solvent or Locquic. Be sure it is absolutely free of dirt.

6) Fill about half of the hole with Devcon Type "A" plastic steel (see Figure 1). Be sure the Devcon is flush with the bore of the stuffing box. Let it dry thoroughly.

7) Screw in a 1/4" pipe plug.

NOTE: Be sure the inside of the bore is smooth at the spot where the plastic steel might protrude.

A new hole will have to be drilled to accommodate a grease fitting (reference Figure 2).

8) Locate the center of the tap drill hole. Drill it no more than 5/8" deep.

9) Drill a 1/8" hole just to the damper shaft. Use a magnetized drill to be sure all metal chips are removed from the hole. Drill the hole downwards at the largest angle possible starting it in the corner of the 7/16" hole.

10) Tap the 7/16" hole to accommodate a 1/4" Alemite grease fitting.

11) Insert a 1/4" Alemite grease fitting.

12) Insert the two Teflon "V" ring packings.

13) Reassemble the remainder of the damper shaft assembly.

14) Apply grease to the new grease fitting.

15) Remove the grease fitting and replace it with a 1/4" pipe plug to discourage haphazard lubrication. The damper shaft must be lubricated to prevent binding, but no more than once a month.

SERVICE BULLETIN

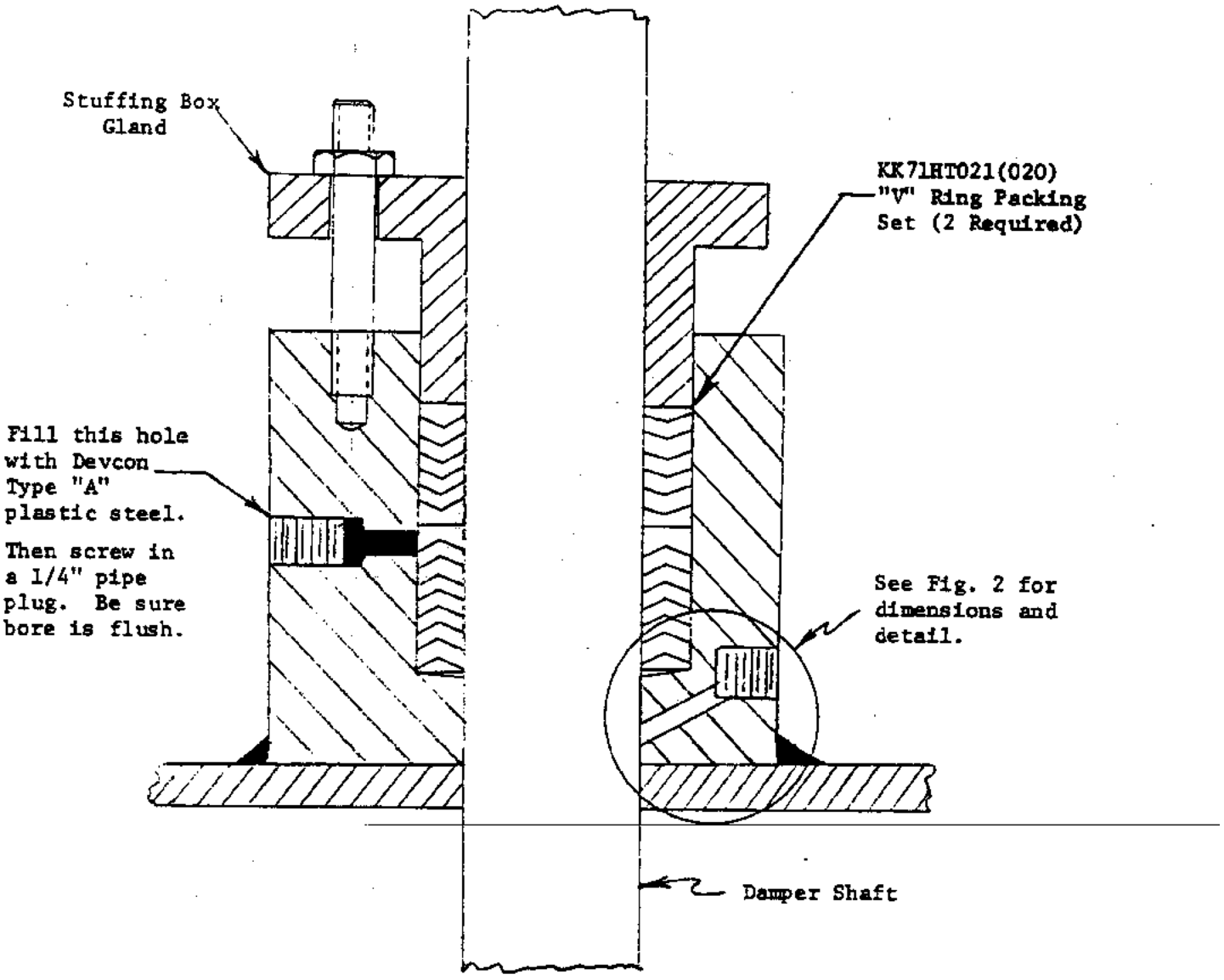

Fig. 1. Section Through Stuffing Box

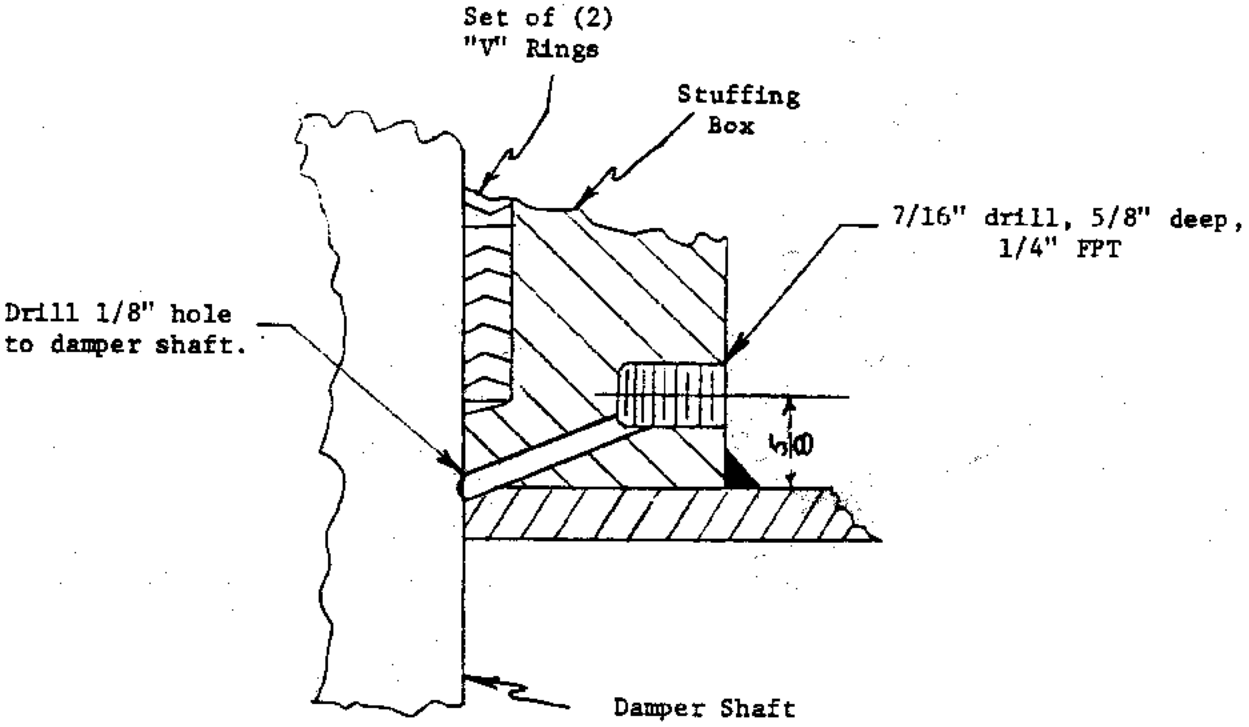

Fig. 2. Dimensions for Locating New Grease Fitting Hole