

Government of India
Ministry of Railways
Research, Designs & Standards Organisation
Manak Nagar, Lucknow - 226 011

No.EL/3.2.61

24.4.1995

SPECIAL MAINTENACE INSTRUCTION NO. RDSO/ELRS/162
(REV.1)

1. OBJECT

Railways have reported cases of air leakage and damage to the relay valve body. Analysis had shown that this was due to improper lubrication of the relay valve. In order to overcome those problems, instructions were issued vide SMI No.RDSO/ELRS/162 dt 21.08.94 to use acid free clear petroleum jelly as per manufacturer's advise to the inner surface of the relay valve body. On further study of the characteristics of the petroleum jelly, it is noted that it tends to dissociation and get blown out under pneumatic pressure. Based on comparative results of relay valve operation with the use of petroleum jelly and lubricant molygraf-44. It has been established by M/s GEC, the manufacturer of the VCB, that molygraf-44 Lubricant equivalent to moly hole --(imported Lubricant) do not get blown out and provide satisfactory lubrication. With the use of Molygraf-44 frequent lubrication of the relay valve will also not be necessary. M/s GECAL has further advised that contact travel opened is also affected due to poor lubrication of relay valve which in turn results into ET2 flash over cases.

It has therefore become necessary to revise RDSO SMI No. RDSO/ELRS/162 dt 21.08.94. molgraph-44 is a silicone blaster base ---lithium stearate.

2. INSTRUCTIONS

Use molygraph- 44 In stead of petroleum jelly;

3. REFERENCE

This is as per the minutes of the meeting hold with M/s. GECAL & M/s RDSO on 10.03.95.

4. SOURCE OF SUPPLY FOR LUBRICATION

Molygraph -44 marketed by M/S

5. INSTRUCITON DRAWING

SK EL 4308.

6. **APPLICATIONS** - T0 CLASS OF LOCOMOTIVE:

All locomotive fitted with VCB of M/s. GEC make.

7. **AGENCY OF IMPLEMENTATION**

Sheds/Shops.


8. **PERIODICITY OF IMPLEMENTATION**

AOH .

9. **DISTRIBUTION**

As per list enclosed.

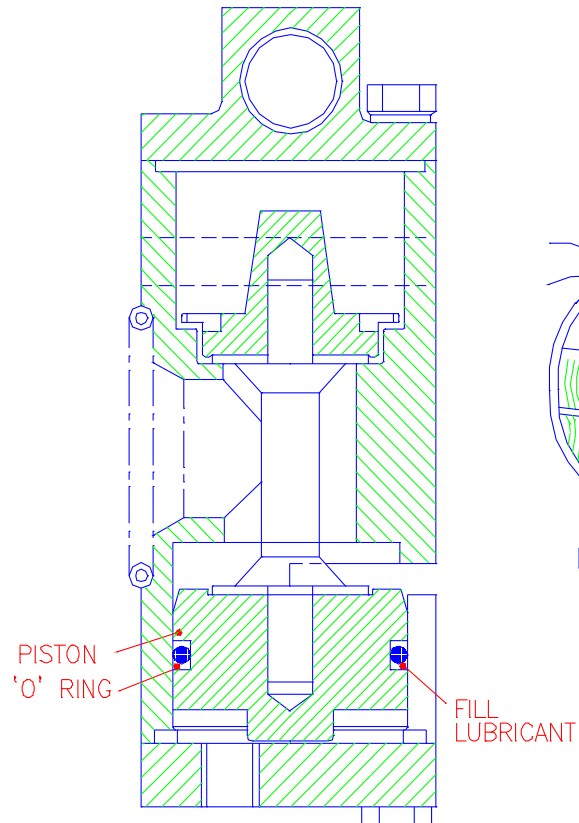
NOTE:- SMI No.RDSO/ELRS/162(Rev.1) supersedes SMI RDSO/ELRS/162



(ARUN SRIVASTAVA)

For Director General (Elect.)

Encl As above



AIR RELAY VALVE ASSY.

FIGURE-1

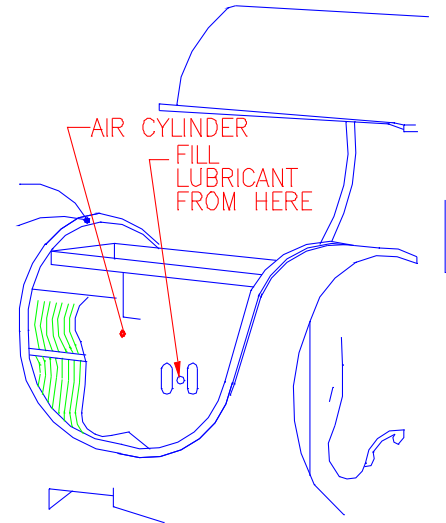


FIGURE-2

Dt.	9.94
D	AJA
T	
C	

REF:- GEC. DRAWING

SCALE:- NTS

APPROVED BY:-

FOR D.G.

AIR RELAY VALVE

RDSO.ELEC.DTE.

SKEL-4308