

## LABYRINTH SEALS

Figure 1 shows the type of labyrinth seal used to reduce to a minimum the steam leakage along the rotor, at the points where it passes through the interstage diaphragm.

The seal rings are made in halves and are carried in a groove machined in the diaphragm. Each half is backed by a garter spring to hold it in the correct position with relation to the rotor. Rotation is prevented by a suitably placed stop pin. Accurate finish of the low pressure side of the groove and the ring provides a steam tight joint at this point.

The sealing edges of these rings are machined to a thickness of about .010 inch and are of such material that slight rubs between them and the rotor are negligible. Hence they can be set with close running clearances without any sacrifice of reliability. The number of seals per ring varies with design conditions.

The following part list has been compiled to facilitate ordering spare or renewal parts by item number and name, together with the serial number of the turbine.

Item No.	Name
1	Seal Rings (In Halves)
2	Springs
3	Stop Pin
4	Spring Pin

