DR.PUMP
& ENGINEERING
CO., LTD

When the pump fails!

ROTATING MECHANICAL SEAL FAILURE SYMPTOMS

Elastomer – Symptoms:

Extrusion & nibbling

4a32

Extrusion Nibbling

- Symptom
  - Extruded / nibbled O-rings
- Causes
  - Excessive tolerances / gap
  - Overpressure
  - O-ring material too soft for the application
- Types of failure
  - Incorrect application
  - Overpressure
  - Quality / design-related problem
  - Excessive material temperature limit
- Solutions
  - Appropriate selection of O-ring material
  - Suitable design of the O-ring groove
  - Sufficient cooling for the seal