



**The design of the seals and their grooves:****a) Wipers:**

1. Approximate wiper configuration, but better - draw a simple sketch
2. The diameter of the cylinder rod, **d**, mm
3. Dimensions of the groove in the housing (boxes), **D, D1, L, L1**, etc., mm
4. Overall thickness (width) of wiper, mm

**b) Rod seals:**

1. Approximate rod seal configuration (collar cuff, chevron kit, a combination of ring and a back-up ring, etc.), but better - draw a simple sketch for each seal.
2. The diameter of the cylinder rod, **d**, mm
3. The dimensions of the groove/grooves, **D, D1, L, L1**, etc., mm
4. The guide elements (number, dimensions of the groove)

**c) Piston seals:**

1. Approximate configuration of seals (collar cuff, chevron kit, a combination of several elements, etc.), but better - draw a simple sketch for each seal
2. The diameter of the cylinder, **D**, mm
3. The dimensions of the groove/grooves, **d, d1, L, L1**, etc, mm
4. The guide elements (type, dimensions of the grooves)

**d) Shaft seals:**

1. Approximate shaft seal configuration, but better - draw a simple sketch for each seal
2. The diameter of the shaft, **d**, mm
3. Dimensions of the groove/grooves, **D, D1, L, L1**, etc., mm

**e) Static seals, Guide and Back-up rings:**

1. Approximate configuration of seals (O-ring, ring rectangular, etc.), but better - draw a simple sketch for each seal
2. The dimensions of the groove/grooves, mm
3. Application of sealants (hermetics, gasket eliminators)