

The invention relates to the mechanical engineering, particularly to the low-speed friction pairs, and can be used for restoring the operating capacity, increasing the resource and reliability of the plane and round surfaces of the “chamber-piston” type friction pairs, functioning at low speeds of relative displacement for advancement and dosage of liquid and pasty products including solid particles.

The low-speed friction pair comprises a cylinder (1) and a piston (2), wherein, in both or in one of them, there are made indentations (3) retaining the solid inclusions of the transported material. The dimensions of the indentations (3) are given depending on the dimensions of the solid inclusions of the transported material in the following limits:

$$a \geq (2 \dots 50) D_{s.i.}$$

$$b = (0,1 \dots 0,5) a$$

$$r_{\min} = D_{s.i.},$$

where:

a – the diameter of the indentation;

b – the depth of the indentation;

r_{\min} – the minimum radius of curvature of the indentation;

$D_{s.i.}$ – the diameter of the medium length of the solid inclusions.

Claims: 4

Fig.: 2

