

Principle of operation

These parts operate on the basis of an interference fit between two conical rings crewed together. The outer ring expands and exerts a pressure on the part being held whilst the inner ring exerts a pressure on a shaft.

Assembly

Carefully clean all the components parts and then apply a light coating of oil to the contact surfaces. Place one part in the hub and insert the shaft, then tighten the screws in a uniform fashion until the prescribed torque is reached. The Torque (T) and Axial Force (F_{ax}) figures in the tables have been calculated for an oiled assembly.

Note:

Do not use Molybdenum Bisulphate based oils or greases as these can significantly reduce the frictional torque.

Dismantling

Unscrew the screws, inserting them in the extraction holes and increasing the pressure in a gradual and uniform manner until the cones are freed. When re-using the pieces, ensure that the screws and threaded holes are oiled.

Tolerance

A good machine-finish is sufficient.

Roughness

Maximum admissible roughness: Rt max 16µm

Recommended assembly tolerances

