**Claims:**

Claim 1: A low friction inlet nozzle for a turbo expander, comprising:

- a nozzle cover ring, wherein the nozzle cover ring comprises a face,
- a set of nozzle blades, wherein each nozzle blade comprises a nozzle first face and a nozzle second face,
- a set of pressure springs, and
- a set of axial loading bolts

Wherein the axial loading bolts are configured to accept all or at least a portion of the force which the set of pressure springs induces between the nozzle cover ring and the first face of the nozzle blades,

Thereby locating the first face of the nozzle blade at a predetermined distance away from the face of the nozzle cover ring.

Claim 2: The low friction inlet nozzle of claim 1, wherein the predetermined distance is between 0.02 and 0.04 mm.