Claims

1) Self lock mechanism for rotating actuators, allowing rotation from one side while denying rotation from the other side, comprising sets of rollers arranged between a housing and a valve connection part with a shape which will press one of the rollers in each set against the housing wall and cause locking if the mechanism is attempted to be twisted from the valve side and a motor connection part shaped so that it will press the rollers out of a locking position and against the valve connection part and transferring torque through the rollers, wherein the rollers in a set are separated and kept in place by a wing on the valve connection part.

2) Self lock mechanism for rotating actuators according to claim 1, wherein a release pin on the motor connection part which presses the roller out of the locking position also presses the roller against the wing, and in this way transfers torque through the mechanism and thereby renders a plurality of torque transfer pins on the valve connection part superfluous.

3) Self lock mechanism for rotating actuators according to claim 2, wherein the wing is given a kind of triangular shape where the sides in the “triangle” are not necessarily straight lines and where one of the tips in the triangle is fastened to the valve connection part while one side follows the inside of the housing, which prevents the roller from getting in contact with the housing wall when the release pin presses the roller against the wing.

4) Self lock mechanism for rotating actuators according to claim 1 where there are two or more sets of rollers, release pins and lock surfaces on the valve connection part, wherein the sets are arranged so relative to each other so forces from locking balance each other and thereby reduce wear on a plurality of bearings and make the mechanism easier to rotate from the motor side.