

HYDRAULIC GATE DAMPER

Radial-dampers with geared wheel, to suit Mod 4 gate rack, have been especially designed for sliding gates. For safety reasons a radial-damper should be fitted on all ascending gates to control the opening or closing speed over the complete distance in the even of manual operation during a power failure.

The radial damper is fixed to the door post

or near the drive unit. The geared wheel must be in mesh with the rack transmitting the power from the drive unit. The load on the damper M may not exceed 7 Nm:

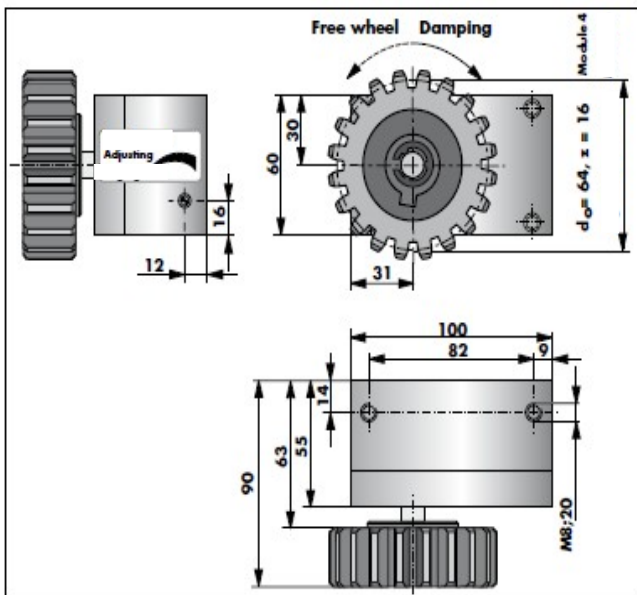
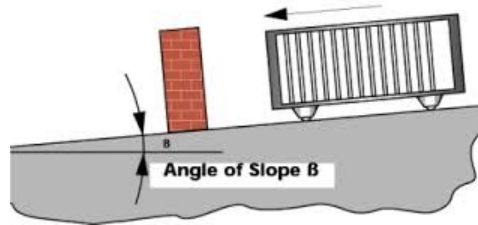
$$M \text{ [Nm]} = G \times \sin\beta \times 0.032$$

{G = weight of the gate in N
β = ascent in degrees}

The diagram below shows

the direction in which the toothed wheel usually rotates. You can change the damping direction by removing the lock washer from the axle and taking off the toothed wheel. Now it is put back on the axle the other way round and secured again. Take care not to damage the inner shaft seals which protect the free wheel.

The closing speed can continuously be varied by the adjustment screw.



The double radial dampers offer higher damping forces than a normal radial damper (the damping is 12.2 Nm) with only a height increase of 19mm.

