

Pneumatic shock absorber of the drilling rig consists of a housing, driving and driven drive wheels. The teeth of the driving wheel are made in the form of radial protrusions with one straight surface along the radius of the wheel, and the second - in the form of a quarter of a circle. The driven wheel is made in the form of an end part of a hollow drive cylinder containing pneumatic cylinders located on the inner walls of the hollow drive cylinder, which are rigidly connected to it, a partition that is rigidly and hermetically connected to the drive cylinder, tubes that are rigidly and hermetically connected to the pneumatic cylinders and the partition and contain channels for the passage of compressed air into the pneumatic cylinders. The pneumatic cylinders contain pistons and rolling bearings fixed to them, and the teeth of the driving wheel during rotation rest on these bearings and, compressing the air in the pneumatic cylinders with the pistons, transmit torque through compressed air to the hollow drive cylinder and the drill rod.