

A shock absorber with floating cylinder contains a working cylinder and an external reservoir for working fluid, a piston with a stock, a bypass valve and a valve of return. For increasing the stability of "even running" of the shock absorber and durability of the automobile between the cavity of working cylinder and cylindrical surface of the piston the floating cylinder is mounted with possibility of axial displacement. Inner cylinder face has radial longitudinal through grooves executed evenly along the circle. In this case, in upper and lower parts of floating cylinder supports are executed with possibility of interaction with upper and lower front surface of piston respectively.