

DAMPING WITH SPIRAL GROOVE TECHNOLOGY

An industrial shock absorber of conventional design squeezes the oil out by the throttle bores which are inserted on one side of a bushing. The oil will be force-diverted and enormously strained by the high velocities of hitting. Pressure peaks are producing vibration and are reducing the service life of elements involved at the damping process. The damping behaviour will be destinated by the number of throttle bores, the energy consumption is restricted.

The exhausting channel of the PowerStop is directly inserted in the piston as spiral groove. During damping the piston dives into the oil bath and picks up over the exhausting channel the oil to be squeezed. The mechanical strain of the oil remains low because of the rotary rising spiral groove. The section form allows a continuous throttle activity and guarantees a smooth damping. The result is a maximum energy consumption across the entire damping stroke!

