



Functional description

Each RSV-Rotator runs on the gerotor principle (hydraulic rotator with toothed washer construction).

The innovative drive system of the rotator is based on the interaction of a three-way driving unit.

Gear teeth ensure a positive connection between rotor (1a) and shaft. The rotator has an external gear. Pressure chambers arise from the interaction between this external gear and the internal gear of the rotoring (1b).

Distributor plates are on both sides of the rotor (1a and 1b). The distributor plates run the rotor. Due to the distributor plates the pressure chambers are alternately filled and emptied. The distributor plates in turn are filled and emptied by the connections. Due to the displacement principle the rotoring is moved eccentrically over the rotor. The rotoring rolls away over the rotor housing (1c) and consequently generates a torque. As a result the rotor turns.

The chokes are positioned proportionally on the distributor plates and thus provide an ideal contact force.

In that way wear is reduced to a minimum and durability is highly increased.

Due to the inversion of the flow direction the direction of the rotation changes.

In order to put the RSV-Rotators to the best possible use an operating pressure between at least 180 up to a maximum of 240 bar is recommended.

