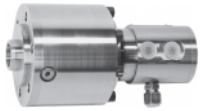

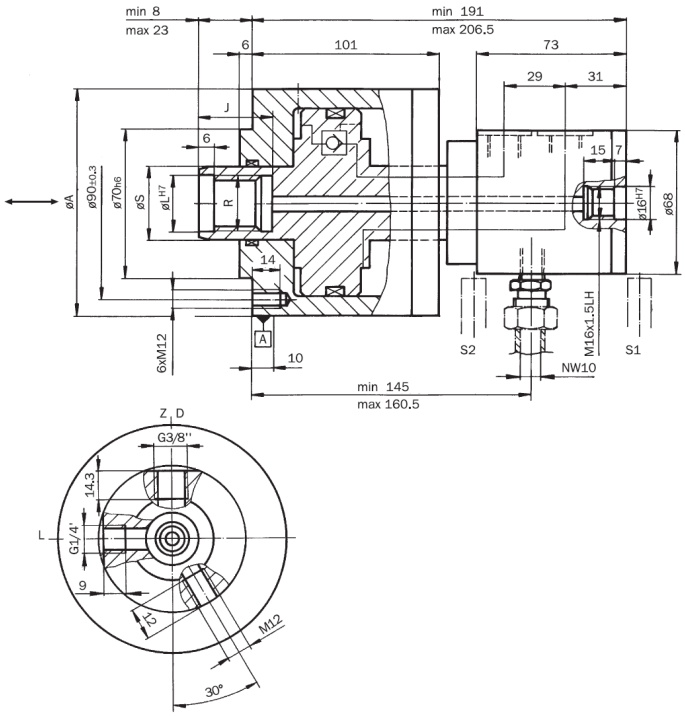

Application

OSKL rotating hydraulic cylinders are primarily designed for actuating SSK gripper, but are also suitable for operating other clamping and chucking systems.

Design Features

OSKL hydraulic cylinders comprise the rotating cylinder body and a hydraulic rotary transmission leadthrough which moves axially with the piston. Clamping and release are
per formed hydraulically. In the event of a hydraulic supply failure, a pilot controlled check valve maintains the pressure in the clamping direction and thus the clamping force. The residual clamping pressure in the cylinder can be checked by way of the test connection provided. If the hydraulic supply remains switched off for a prolonged period while the tools are in the spindle, ensure that the weights of the tool and the draw bar are held by a spring element.

In comparison to clamping systems operating with plate
springs, the clamping forces of OSKL hydraulic cylinders are infinitely variable throughout the wide pressure range. No axial forces act upon the spindle bearings during release and ejection of the tools as the rotating cylinder body is permanently fixed to the spindle.

The central hole permits the supply of compressed air or coolant lubricant; a threaded connection is provided for the Deublin rotary lead-in 1106, which does not, however, allow dry running.

The external edges of the hydraulic rotary transmission leadthrough, in conjunction with inductive proximity switches to be installed on the machine side, are suitable for monitoring the clamping and release position.

Install horizontally or vertically with the hydraulic transmission leadthrough pointing upwards.

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