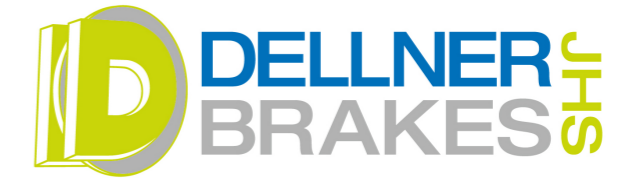


# Rotor lock



hält



Customer-specific solutions – based on sound and proven components – are one of our principles evident in many areas of our company. The JHS-R240 series is a perfect example of this.

Margot Bucher, Office Administration



JHS-R240

JHS-R240-154



JHS-R240-M



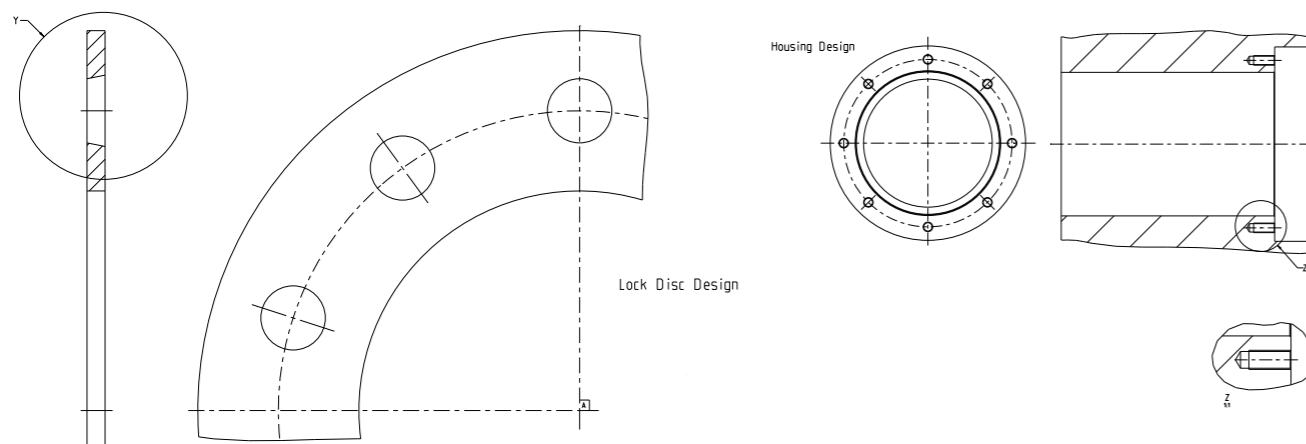
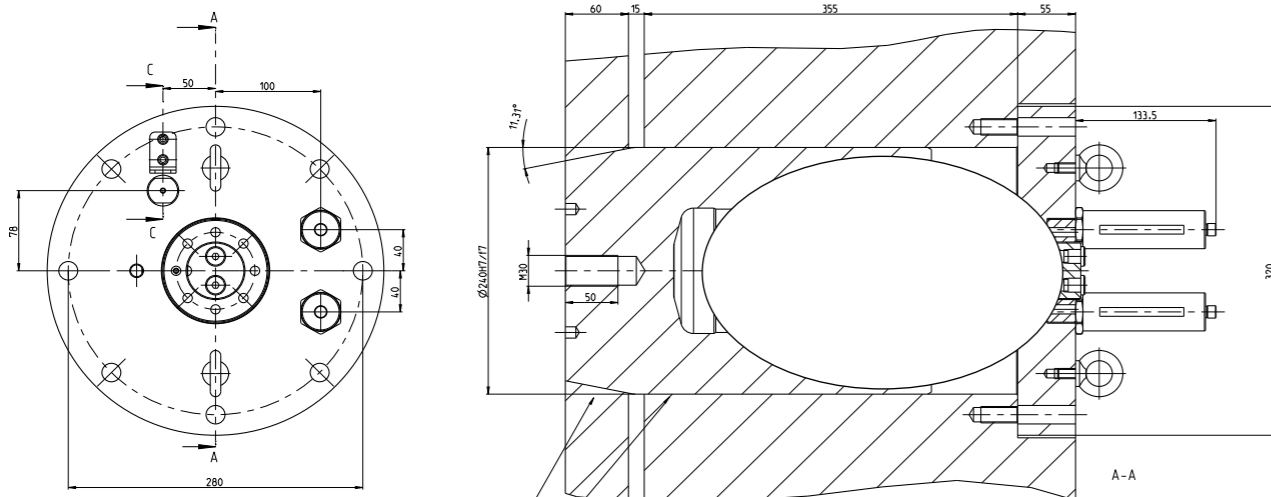
- Hydraulic operation
- Standard design
- Monitoring and display of end position "rotor locked/rotor unlocked"
- Low-maintenance design



## JHS-R240

The rotor lock is used for safety purposes during maintenance operations to stop the rotor mechanically. A bolt is being extended and engages the rotor lock disc.

The respective end position of the lock bolt is monitored and a corresponding signal transmitted to the turbine control. This allows safe maintenance work.



TYPE JHS-R240	
Weight	150 kg
Outer dimensions (in lock position) $\varnothing$ 320 x 495 mm	
Full stroke*	80 mm
Max. lateral force $F_L$	4600 kN
Operating pressure p (max)	250 bar
Max. force fore stroke $F_+$	283 kN
Max. force back stroke $F_-$	187 kN
Piston diameter	120,0 mm
Piston area fore stroke	113,1 cm <sup>2</sup>
Piston area back stroke	74,6 cm <sup>2</sup>
Oil volume per 1 mm stroke	11,3 cm <sup>3</sup>
Oil volume per 75 mm stroke	848,2 cm <sup>3</sup>
Time for activation	35 s
Temperature range	-40 / +60 °C
Pressure connection port	2 x G1/4

\* different strokes on request

### LOCK TORQUE

Lock torque formular:

$$M_L = a \times F_L \times D_{eff} / 2$$

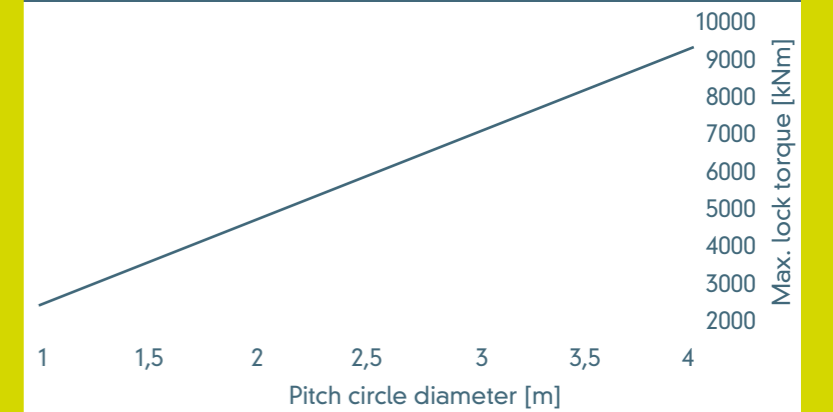
$M_L$  = Locking torque [kNm]

a = Number of rotor locks acting on the disc

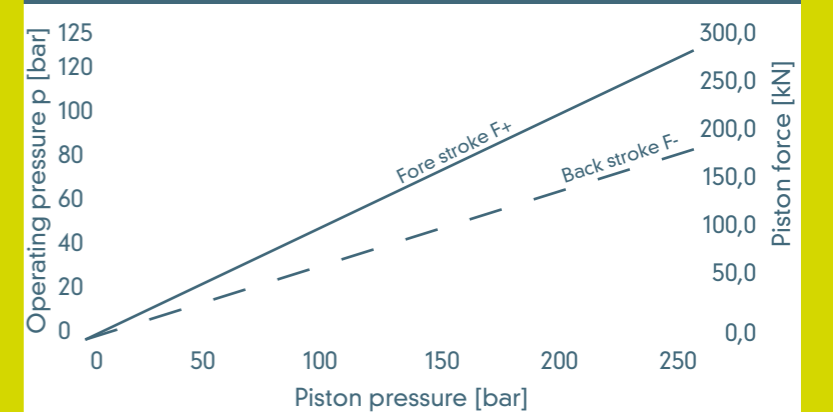
$F_L$  = Max. lateral force for the rotor lock [kN]

$D_{eff}$  = Effective pitch circle diameter [m]

### LOCK TORQUE



### PISTON FORCE



### OPTIONS

- With redundant lock switches as back up
- Position locking plate
- Hydraulically operated systems provided with check valves