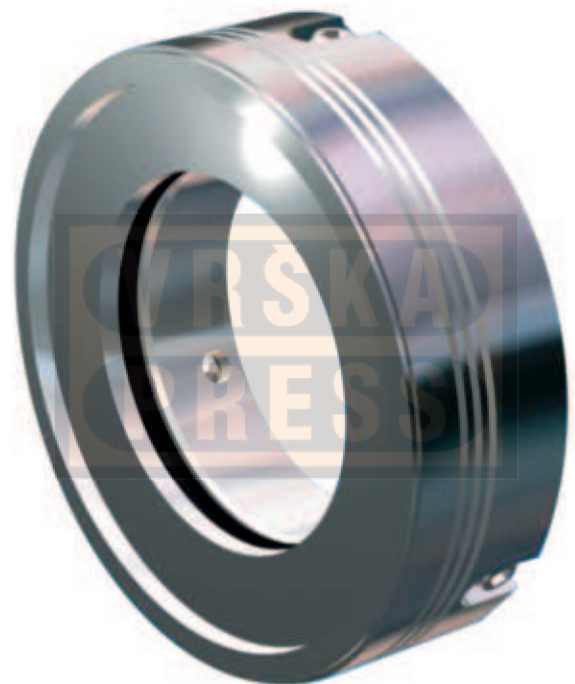


### LIMITING FACTORS

$D1 = 40 \dots 110 \text{ mm}$   
 $p1 = 16 \text{ bar}$   
 $t = 204 \text{ }^\circ\text{C}$   
 $V_g = 5 \text{ m/s}$   
 $pV = 45 \text{ bar m/s}$

### LIST OF ELEMENTS

1. Rotary seal ring
2. Stationary seat
3. Inserted sliding face
4. Secondary seal
5. Springs
6. Housing
7. Secondary sel
8. Fixing screw
9. Stationary seat with cooling chamber support
10. Cooling chamber



### Working conditions

A single, outer, balanced mechanical seal, designed for works in extremely hard industrial conditions. It has proven very reliable working with abrasive and crystallizing fluids at temperatures up to 204°C and pressures up to 16 bar.

### Design and constructive characteristics

Although it has a lot of important advantages, this type, like every other outer mechanical seal has faced heat bounding mounting conditions, because of the problem of heat removal from the mechanical seal faces. At this very type of mechanical seal this devastating -problem is solved by coolant (water) supply from an independent source. The coolant circulates through the cooling chamber, removing generated heat from the mechanical seals faces. In fact, this design where the stationary part of the mechanical seal is a cooling chamber at the same time (entirely separated from the working fluid) allows optimal conditions for mechanical seals work in extremely hard industrial conditions.