



sealmatic[®]

Sealmatic Delivers 55 Special Mechanical Seals To ITT Goulds For The SQM Industrial s.a. Project In Chile

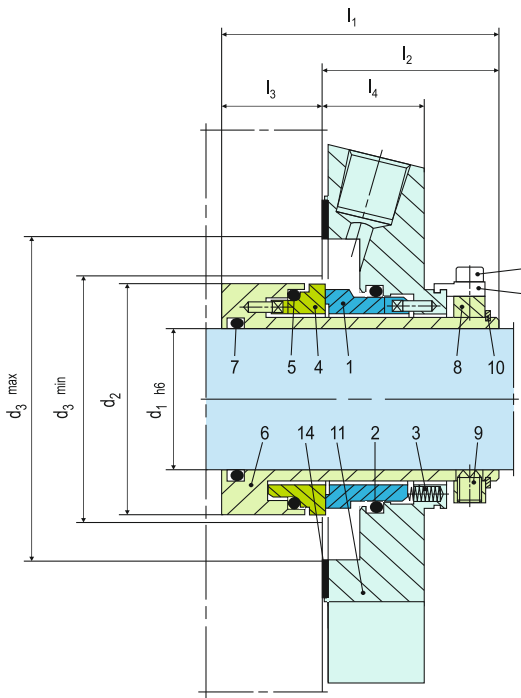
In the Atacama Desert, located between Chile's first and second regions, SQM has exclusive access to the world's best and largest reserves of caliche ore and brines. It possesses the most extensive reserves of iodine and nitrate, as well as the highest concentrations of lithium and potassium.

Sealmatic has delivered 55 mechanical seals of CTX and BRS design to SQM Industrial covering various applications such as Liquid Claro – Solids, Pulpa Salina Solids, Solucion de Litio, Licor Madre, Solución de Litio sin Boro etc.

The recovery of raw materials and the subsequent conditioning of the ores and minerals is often associated with abrasive and corrosive media with an extremely high solids content (slurries), sometimes combined with high temperatures and pressures. This creates a particularly stringent and robust requirement mechanical seal employed.

Sealmatic's CTX and BR mechanical seals fulfil such demanding operating conditions:

- Reliable and safe sealing of media containing high solids contents
- Resistant to erosion and corrosion from the most abrasive and/or corrosive media
- Media that may be detrimental to the health or present other hazards can be sealed in an environmentally friendly and operationally safe manner
- Reduced water consumption and thus lower operating costs



Performance Capabilities

CTX-ASPN, -ABPN, -ASTN, -ABTN, -ASQN, -ABQN
 Sizes: $d_1 = 1.000'' \dots 3.750''$

Other sizes on request
 Temperature: $t = -40^\circ\text{C} \dots +220^\circ\text{C} (-40^\circ\text{F} \dots +428^\circ\text{F})$
 (Check O-ring resistance)

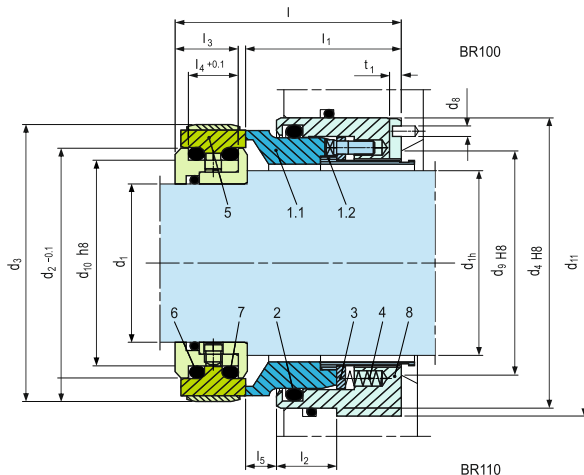
Sliding face material combination BQ1

Pressure: $p_1 = 25 \text{ bar (363 PSI)}$
 Speed = 16 m/s (52 ft/s)

Sliding face material combination Q1Q1 or U2Q1

Pressure: $p_1 = 12 \text{ bar (175 PSI)}$
 Speed = 10 m/s (33 ft/s)

Permissible axial movement: $\pm 1.0 \text{ mm}, d_1 \geq 75 \text{ mm}$
 $\pm 1.5 \text{ mm}$



Performance Capabilities

Sizes: $d_N = \text{Upto } 270 \text{ mm (Upto } 10.625'')$

Pressure: $p_1^*) = 16 \text{ bar (230 PSI)}$

Temperature: $t = -20^\circ\text{C} \dots +160^\circ\text{C}$
 $(-4^\circ\text{F} \dots +320^\circ\text{F})$

Speed = 10 m/s (33 ft/s)

*) For operation under vacuum it is necessary to arrange for quenching on the atmosphere side.

