

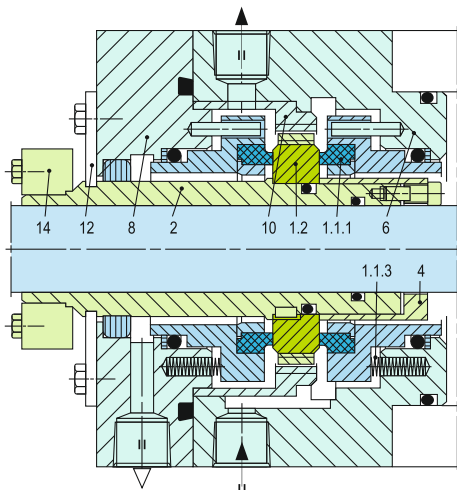
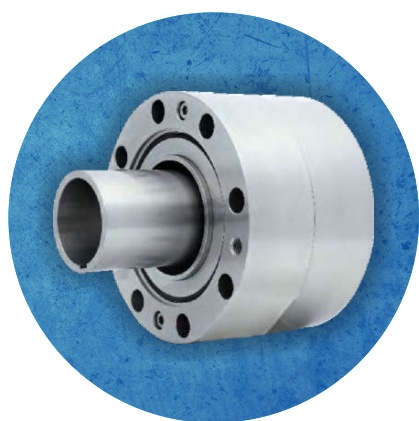


## Sealmatic delivers mechanical seals for boiler feed and booster pumps to Az-Zour North Gas-Fired Combined Cycle Power Plant

Mechanical seals are an essential component of a power plant. Critical rotary equipments, typically such as pumps, agitators, coal mills and compressors; carrying gases and liquids require robust and demanding mechanical seals.

Fossil-fueled power plants are defined as coal, gas or oil-fueled power plants that are equipped with a flue gas desulfurization plant. Mechanical seals at these plants are often exposed to highly fluctuating thermal and mechanical stress. Machine reliability and low susceptibility to failure are the crucial criteria in all of these applications. The machinery must be rugged enough to withstand high pressures, temperatures and sliding velocities. The machinery also has to deal with different media, such as river, sea or ultra-pure water in feed pumps and cooling circuits. Equipment in flue gas desulfurization must be designed to be resistant against abrasive and corrosive lime milk suspensions and slurries. Our SB, B750, CTX and BR mechanical seals are utilized in cooling water, condensate, main feed and suspension pumps.

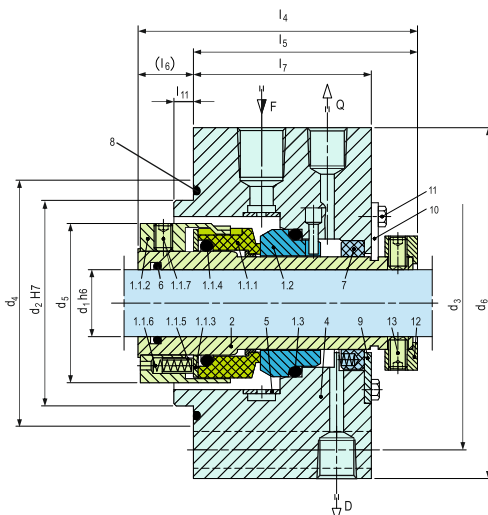
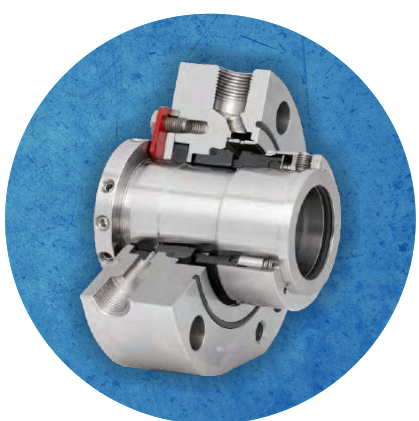
### SBF(V)-D / SBP(V)-D Dual Seals



#### Performance Capabilities

Sizes:  $d_1^*$  = Upto 250 mm (Upto 10.000")  
Pressure:  $p_1$  = 150 bar (2,175 PSI)  
Temperature:  $t$  = 200 °C (392 °F)  
Speed = 60 m/s (197 ft/s)  
\* Other sizes on request

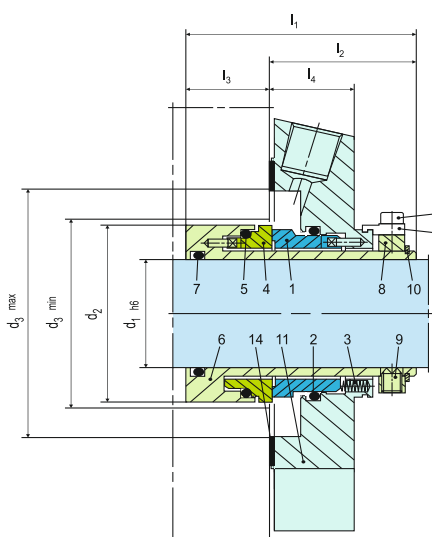
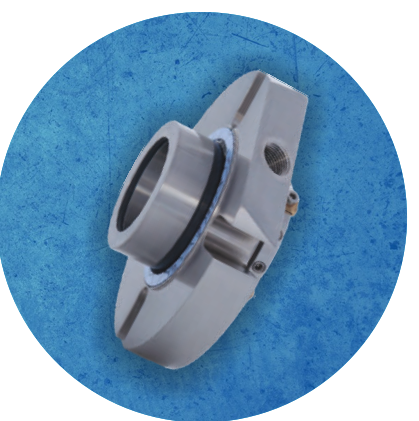
### B750VN Single Seals



#### Performance Capabilities

Sizes:  $d$  = Upto 110 mm (Upto 4.250")\*  
Pressure:  $p_1$  = 40 bar (580 PSI)  
Temperature:  $t$  = -40 °C...+220 °C (-40 °F...+428 °F)  
Speed = 23 m/s (75 ft/s)  
Permissible axial movement:  $\pm 2.0 \dots 4.0$  mm depending on diameter and installation situation  
\* Other sizes on request

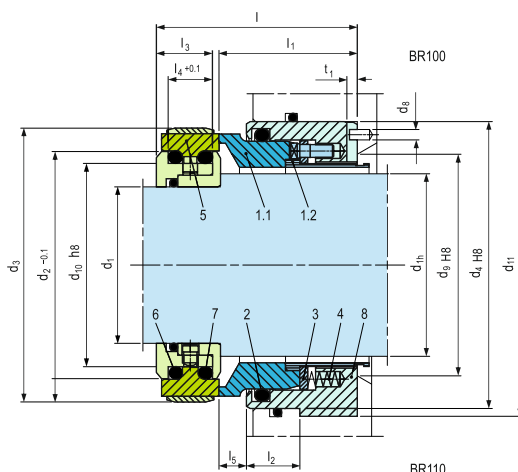
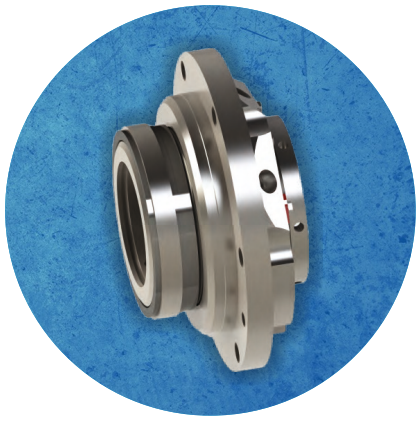
### CTX Single Seals



#### Performance Capabilities

CTX-ASP, -ABPN, -ASTN, -ABTN, -ASQN, -ABQN  
Sizes:  $d_1$  = 1.000" ... 3.750"  
Other sizes on request  
Temperature:  $t$  = -40 °C ...+220 °C (-40 °F ...+428 °F)  
(Check O-ring resistance)  
**Sliding face material combination BQ1**  
Pressure:  $p_1$  = 25 bar (363 PSI)  
Speed = 16 m/s (52 ft/s)  
**Sliding face material combination Q1Q1 or U2Q1**  
Pressure:  $p_1$  = 12 bar (175 PSI)  
Speed = 10 m/s (33 ft/s)  
Permissible axial movement:  $\pm 1.0$  mm,  $d_1 \geq 75$  mm  $\pm 1.5$  mm

### BR Single & Dual Seals



#### Performance Capabilities

Sizes:  $d_N$  = Upto 270 mm (Upto 10.625")  
Pressure:  $p_1^*$  = 16 bar (230 PSI)  
Temperature:  $t$  = -20 °C ...+160 °C (-4 °F ...+320 °F)  
Speed = 10 m/s (33 ft/s)  
\*) For operation under vacuum it is necessary to arrange for quenching on the atmosphere side.

