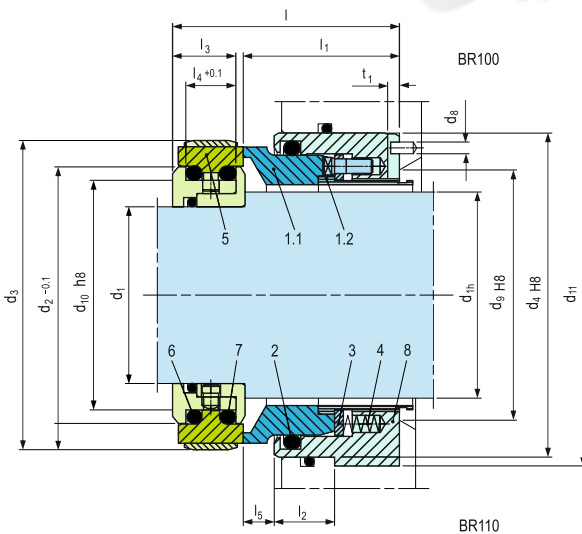


**sealmatic**<sup>®</sup>

## Sealmatic Delivers BRS Seal For Coal Ash Slurry On A Jeumont Schneider Pump At Reliance Power Plant

A slurry is a mixture of solid particles suspended in a liquid medium (coal ash). In most industrial applications, the suspended solid particles are denser than the liquid. Slurries can, therefore, be categorized as non-settling or settling slurries based on the solid particle size. Coal-fired power plants generate more than fifty percent of the world's electricity. In doing so, they burn hundreds of millions of tons of coal. A very fine powder like material, known as fly ash, is driven out of the boiler with the flue gases. Coarse ash particles that are too large to be carried up with the smoke collect at the bottom of the boiler and are called bottom ash. Together, fly ash and bottom ash are known as coal ash. Conveying wetted ash to ponds or hoppers using slurry pumps exposes the mechanical seals to extreme operating conditions including a highly abrasive environment, large particles, high pressure, temperature and vibration. This makes the mechanical seals susceptible to failure, causes unplanned downtime and leads to high operating costs. Hence a correct mechanical seal selection is therefore of paramount importance in ensuring continuous, trouble-free operation.

Sealmatic has designed a rugged BRS seal to meet such aggressive operating conditions at the Reliance Power Plant.



### 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.

API SPEC Q1 . API . ISO 9001:2015 . EU 1935:2004 . ATEX - 2014/34/EU . ISO 9001:2015 . ISO 14001:2015 . BS-OHSAS 18001:2007 . PED-CE

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