



## Sealmatic BR Mechanical Seals For Slurry Application

Slurry is a mixture of denser solids suspended in liquid, typically water. The most common usage of slurry is as a means of transporting solids or separating minerals, the liquid being a carrier that is pumped on a device such as slurry pump. The size of solid particles may vary from one micrometre up to hundreds of millimetres. Depending on the mixture, the slurry may be abrasive and corrosive. The application involved in slurry application are of harsh environment, the equipment undergoes high stress and thus require a further degree of reliability until they carry out their function in maximum safety and productivity.

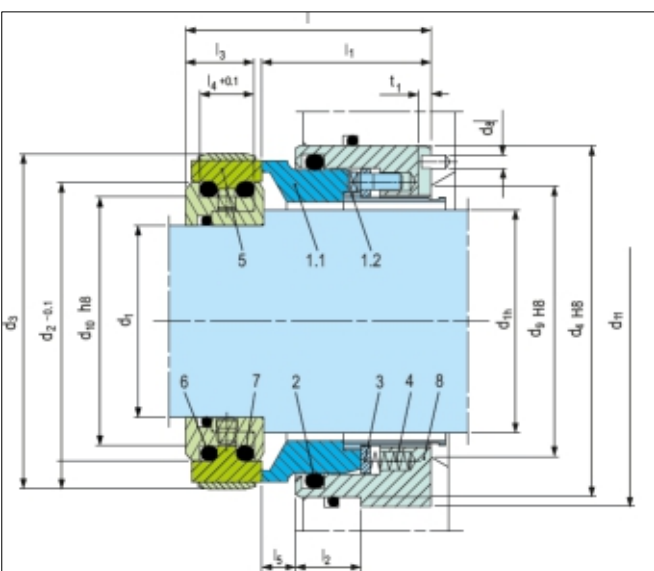
The sealing systems are specially designed for such application. Sealmatic mechanical seals are designed for higher capacities and performance, improvements to the structure design for increasing the stress resistance so that they can adapt more severe conditions. Hence increasing the productive life, growing the continuity of safety in the productive phase, and guaranteeing the perfect functionality of the equipment.

Operating Parameters							
Sr. No	Seal Type & Size	Media	Temperature	Speed (RPM)	Stuffing Box Pressure (kg/cm <sup>2</sup> )	Specific Gravity	Viscosity
1	91-BR2S100L/85-G913 (DE)	Viscous organic slurry with small abrasive particles	100° C	300	12 kg/cm <sup>2</sup>	0.9 – 1.1	50-100cP
2	91-BR2S100L/85-G914 (NDE)						

We are pleased to announce that Sealmatic type BR mechanical seal has been successfully installed for a slurry application. Thus, offering tailor made solutions, safety in operation and maintenance with a view to achieve highest safety standards.

### Sealmatic Type BR Mechanical Seal For Slurry Application

Type BR is a balanced mechanical seal mainly designed for slurry application. The shaft sleeve of the seal is specially designed to protect the springs from contamination. The seat design of type BR seal is rotary and designed behind the impeller. Moreover, O-ring is dynamically loaded to prevent shaft damage; the seal can also operate under vacuum without locking the seat.



#### Performance Capabilities

- Sizes: dN = Upto 270 mm (Upto 10.625")
- Pressure: p1\*) = 16 bar (230 PSI)
- Temperature: t = -20 °C ...+160 °C (-4 °F ...+320 °F)
- Speed = 10 m/s (33 ft/s)

#### Technical Features

- Accommodates shaft deflections due to stationary design
- Designed to handle media containing solids
- Can operate under vacuum without locking the seat
- Pumping device available for increased efficiency in circulation
- Springs are product protected to avoid contamination

### Design Variations Of Type BR Mechanical Seal

<p><b>BR200</b> Cartridge-type single seal with guide sleeve (Item no. 2) for use with quench. Insert (Item no. 1) either metal or silicon carbide.</p>	<p><b>BR300</b> Cartridge-type single seal. Insert (Item no. 1) either metal or silicon carbide. Optional without maintenance rinsing.</p>	<p><b>BRKS-D</b> Double seal in cartridge design for operation in barrier or buffer pressure (does not open if barrier pressure fails), available alternatively with a pumping screw for a higher rate of circulation. Torque transmission e.g. by shrink disk.</p>	<p><b>BRZ100</b> Single seal with cylindrical spring and type G76 seat. For installation in covers with installation dimensions according to EN 12756 B or U. Installation length <math>l_{i1}</math> corresponds to max. <math>l_{i2}</math>. Intermediate sizes on request.</p>
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