

Seal Face Loading Element is the loaded component on mechanical seals, so, there is higher requirements on strong strength, higher elasticity limits, wear out resistance, anti-corrosive, heat and cold resistance etc. **1) Spring:** Spring pressed and screwed spring is the most popular used in mechanical seals and most of them made of stainless steel. Most manufacturer normally use SS304 and SS316, they can be applied to the corrosive and heat or cold environment. The corrode resistant of SS316 is better than SS304. 65Mn iron spring with surface plating, strong strength it applied to normal environment.

**2) Wavy spring:** The wavy spring which used in mechanical seals mainly made of thin steel strip. The normal material are SS302, SS316 and PH15-7Mo.

**3) Metal bellows:** Metal bellows include welded metal bellows and shaped by pressure bellows. There are three grades of materials used to produce welded bellows, classified by corrode grade: the primary grade is deposited and indurated stainless steel-AM350, middle grade INCONEL-X-750 and titanium alloy the top grade is Hastelloy C-276.