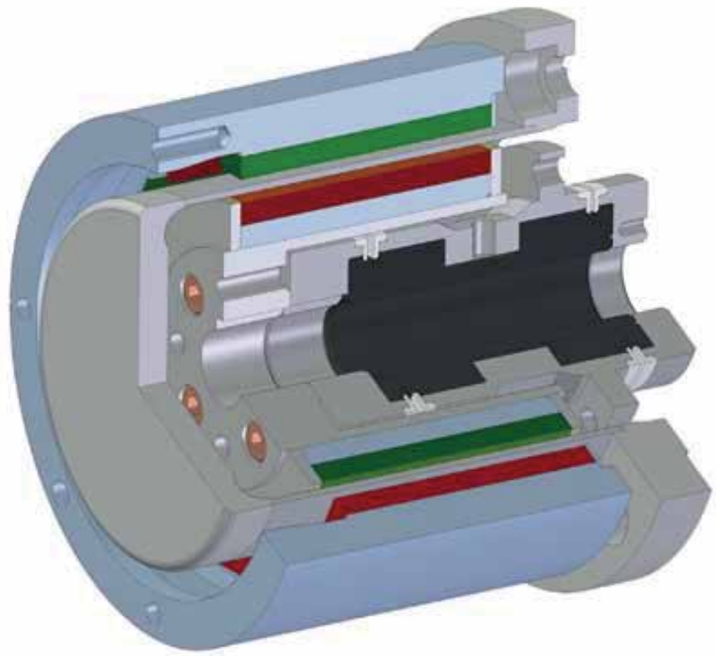


magnetic coupling

Shaft Sealing Systems

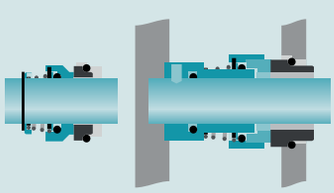
Approx. 95% of all pump failures are caused by an incorrect or defective shaft seal. In order to avoid premature failures and to increase the service life, a careful selection of sealings based on customer requirements is essential. For standard applications various types of mechanical seals are used, meeting the operating conditions.

For executions free from leakage, on demand magnetic couplings are available with low eddy current losses. For early malfunction detection suitable sensors optionally will be used.

Advantages

- **High Process Reliability**
  - maintenance free
  - use of quality brands exclusively
- **Energy-Efficiency**
  - low power losses

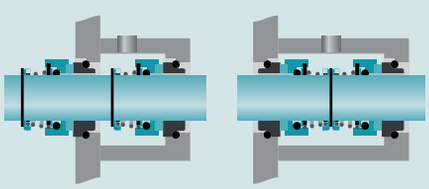
Single-acting mechanical seals



unbalanced
max. 25 bar, 120°C

balanced
max. 40 bar, 160°C

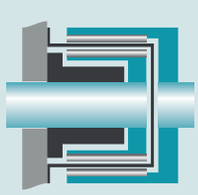
Double-acting mechanical seals



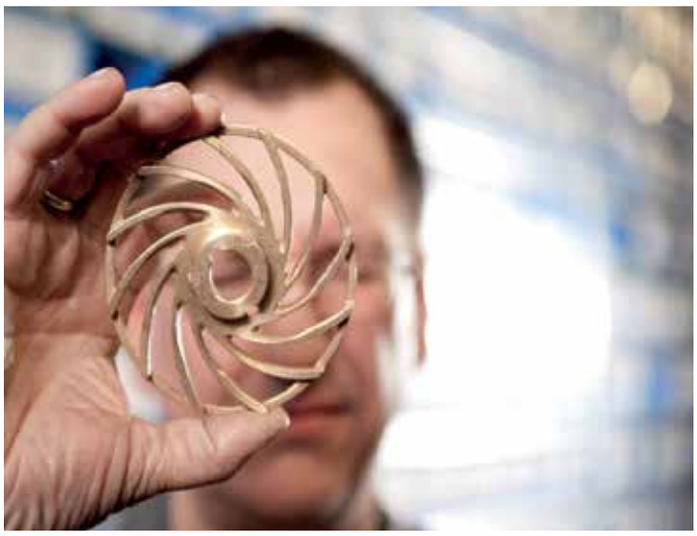
Tandem arrangement
max. 16 bar, 120°C

Back-to-back arrangement
max. 16 bar, 120°C

Magnetic coupling



max. 40 bar, 220° C



Materials

Casings

0.6025	EN-GJL-250	grey cast iron
0.7040	EN-GJS-400-15	nodular cast iron
2.1050.01	G-CUSn 10	bronze
1.4301	X 5 CrNi18 10	stainless steel
1.4581	G X 5 CrNiMoNb 19 11 2	stainless steel
1.4517.01	G X 3 CrNiMoN 25 6 3	super duplex

Impellers

0.6025	EN-GJL-250	grey cast iron
0.7050	EN-GJS-500-7	nodular cast iron
2.1052.01	G-CUSn 12	bronze
1.4301	X 5 CrNi18 10	stainless steel
1.4517.01	G X 3 CrNiMoCuN 25 6 3 3	super duplex

Shafts

1.4057	X 22 CrNi 16 2	stainless steel
1.4301	X 5 CrNi 18 10	stainless steel
1.4460	X 4 CrNiMoN 27 5 2	stainless steel
1.4462	X 2 CrNiMoN 22 5 3	stainless steel
1.4501	X 2 CrNiMoCuWN 25 7 4	super duplex

Additional material executions and coatings on request

Certificates

- **Certification reports according to**
  - EN 10204 - 2.2
  - EN 10204 - 3.1
- **Test certificates according to**
  - EN 9906 II
- **Inspection and approval acc. to classification societies specifications**
- **Special tests according to customer requirements**