



# MAGNETIC COUPLINGS

Permanent magnetic couplings are essential for environmentally compatible drive solutions. The use of a magnetic coupling is recommended for applications where the fluid must not come into contact with the external environment, eliminating problems of leakage. In applications with critical, highly toxic or aggressive media, hermetically sealed drives are inevitable. DST permanent magnetic couplings offer a reliable alternative to conventional dynamic seals due to their contactless and leakage-free torque transmission in pumps and agitators.

## FEATURES

### PERFORMANCE

Standard: 1 - 1,200 Nm

Customer specific: 0.1 - > 10,000 Nm

### APPLICATIONS

- Process engineering
- Chemical industry
- Pharmaceutical industry
- Industrial furnaces
- Water management
- Compressors
- Dosing technology
- Hydraulics
- Petrochemistry
- Ship industry

### HIGHLIGHTS

- ATEX compliance
- More than 1,000 magnet configurations
- Customer specific solutions
- Contactless torque transmission
- Hermetic separation of the driving and driven side
- Resistant to aggressive media
- Maintenance-free

### MATERIALS

Optimally matched to the various media, the wetted parts of the magnetic coupling are made of different materials:

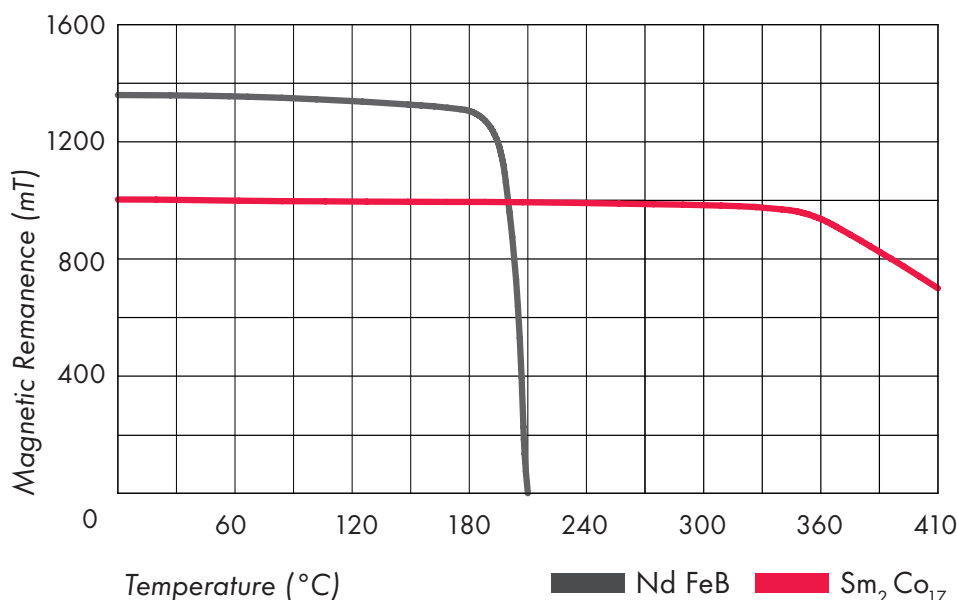
- 1.4301, 1.4401, 1.4404, 1.4435, 1.4462, 1.4539, 1.4980
- 3.7165 Titanium Grade 5, Hastelloy C-4, C-22, C-276
- PTFE, PFA, TFM

## STANDARD CONSTRUCTION RANGES

Type	Power	Drawing No.
DST 27/1	1 Nm	D055M0017
DST 27/2	2 Nm	D055M0018
DST 45/4	4 Nm	D055M0013
DST 45/6	6 Nm	D055M0062
DST 45/8	8 Nm	D055M0015
DST 60/7	7 Nm	D055M0075
DST 60/10	10 Nm	D055M0136
DST 60/14	14 Nm	D055M0076
DST 60/22	22 Nm	D055M0077
DST 75/10	10 Nm	D055M0022
DST 75/20	20 Nm	D055M0028
DST 75/30	30 Nm	D055M0036
DST 75/40	40 Nm	D055M0044
DST 75/60	60 Nm	D055M0061
DST 110/22	22 Nm	D055M0024
DST 110/50	50 Nm	D055M0031
DST 110/80	80 Nm	D055M0039
DST 110/100	100 Nm	D055M0083

Type	Power	Drawing No.
DST 135/85	85 Nm	D055M0026
DST 135/100	100 Nm	D055M0063
DST 135/135	135 Nm	D055M0033
DST 135/180	180 Nm	D055M0041
DST 135/220	220 Nm	D055M0010
DST 165/140	140 Nm	D055M0027
DST 165/200	200 Nm	D055M0034
DST 165/275	275 Nm	D055M0042
DST 165/365	365 Nm	D055M0047
DST 200/550	550 Nm	D055M0112
DST 200/700	700 Nm	D055M0113
DST 200/850	850 Nm	D055M0114
DST 200/1000	1000 Nm	D055M0115
DST 200/1200	1200 Nm	D055M0203

All DST standard couplings are also available with encapsulated outer rotor and as version for bearing.



Temperature curve of Sm<sub>2</sub>Co<sub>17</sub> and Nd FeB magnets.  
 Sm<sub>2</sub>Co<sub>17</sub> magnets are suitable for temperatures up to appr. 350°C.  
 (higher temperatures for both magnets upon request)