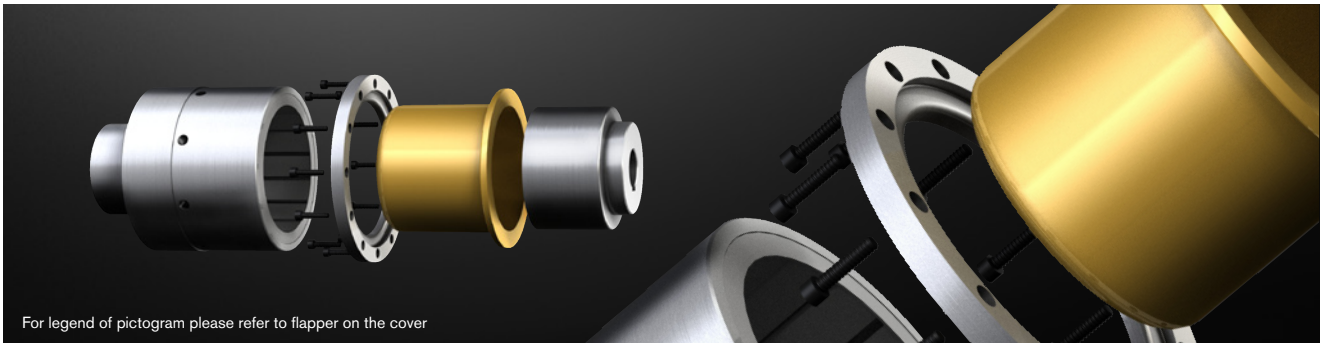


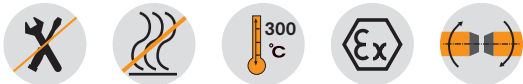
# MINEX®-S

## Magnetic couplings

### Containment shroud – material oxide ceramics



For legend of pictogram please refer to flapper on the cover



Technical data – Internal rotor and containment shroud														
Size	TK max. [Nm] with ~ 20 °C	Dimensions [mm]												
		Internal rotor						Containment shroud						
		Finish bore <sup>1)</sup> d <sub>f</sub>		D <sub>I1</sub>	L <sub>I1</sub>	G <sub>I</sub>	S <sub>I</sub>		D <sub>S1</sub>	D <sub>S2</sub>	D <sub>S3</sub>	D <sub>S4</sub>	Z <sub>S</sub>	L <sub>S</sub> = L <sub>total</sub>
min.	max.	min.	max.											
SA 110/16	30				45									
SB 110/16	70	14	55	72	65	M8	4	28,0	132	151	168	9	12	115
SC 110/16	100				85			9,0						
SB 135/20	110				65			46,5						
SC 135/20	155	20	70	90	85	M10	4	26,5	157	167	180	5,5	12	143
SD 135/20	210				110			4,0						
SC 165/24	220				85			28,0						
SD 165/24	300	24	90	110	110	M12	4	4,0	196	210	225	6,6	12	150
SE 165/24	390				130			17,0						185
SD 200/30	430													
SE 200/30	550	38	90	130	135	M16	4	4,0	229	246	265	9	12	185

Technical data – External rotor, flange hub and general														
Size	Dimensions [mm]													
	External rotor					Flange hub						General		
	DA1	DA2	DA3	LA1	GA	Max. finish bore <sup>1)</sup> d <sub>f</sub>	DF1	DF2	LF1	LF2	GF	ΔS	Total length* (incl. flange hub)	
												min.	max.	
SA 110/16				41,3										
SB 110/16	130	138	150	61,3	M6	55	85	153	87,5	45,5	M10	18,7	165,5	195,5
SC 110/16				81,3									191,5	196,5
SB 135/20				70,3									215	224
SC 135/20	158	167	176	90,3	M6	70	100	176	89	67	M12	18,2	215	224
SD 135/20				110,3								20,7	220	220
SC 165/24				90,3								18,5	225	230,5
SD 165/24	186	195	204	110,3	M6	75	110	204	94	70	M16	20,7	229	229
SE 165/24				130,3									260	260
SD 200/30														
SE 200/30	220	230	240	130,3	M6	80	120	240	120	88	M16	25,7	280	280

\* Total length excl. flange hub = LS

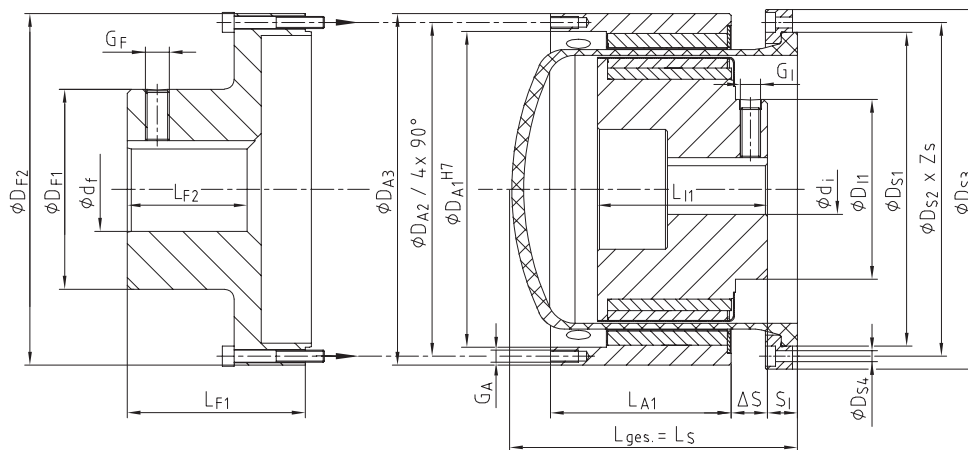
Technical data										
Size	TK max. [Nm] with 20 °C	Internal rotor			Containment shroud			External rotor (+ optional flange hub)		
		Standard material		Max. temperature	Standard material		Max. pressure	Standard material		Max. temperature
		Hub	Magnets	t <sub>max.</sub> [°C]	Hub	Cont. shroud	P <sub>N/P</sub> max. [bar]	Hub	Magnets	t <sub>max.</sub> [°C]
SA 110/16	25	1.4571	Sm2Co17	300	Aluminium	ZrO2MgO	25/37,5	S355J2G3	Sm2Co17	300
SB 110/16	60	1.4571	Sm2Co17	300	Aluminium	ZrO2MgO	25/37,5	S355J2G3	Sm2Co17	300
SC 110/16	95	1.4571	Sm2Co17	300	Aluminium	ZrO2MgO	25/37,5	S355J2G3	Sm2Co17	300
SB 135/20	100	1.4571	Sm2Co17	300	Aluminium	ZrO2MgO	25/37,5	S355J2G3	Sm2Co17	300
SC 135/20	145	1.4571	Sm2Co17	300	Aluminium	ZrO2MgO	25/37,5	S355J2G3	Sm2Co17	300
SD 135/20	200	1.4571	Sm2Co17	300	Aluminium	ZrO2MgO	25/37,5	S355J2G3	Sm2Co17	300
SC 165/24	210	1.4571	Sm2Co17	300	Aluminium	ZrO2MgO	25/37,5	S355J2G3	Sm2Co17	300
SD 165/24	280	1.4571	Sm2Co17	300	Aluminium	ZrO2MgO	25/37,5	S355J2G3	Sm2Co17	300
SE 165/24	370	1.4571	Sm2Co17	300	Aluminium	ZrO2MgO	25/37,5	S355J2G3	Sm2Co17	300
SD 200/30	430	1.4571	Sm2Co17	300	Aluminium	ZrO2MgO	25/37,5	S355J2G3	Sm2Co17	300
SE 200/30	550	1.4571	Sm2Co17	300	Aluminium	ZrO2MgO	25/37,5	S355J2G3	Sm2Co17	300

Ordering example:	MINEX® SB 135/20	NdFeB	d <sub>i</sub> Ø20mm	d <sub>a</sub> Ø24mm	Oxidkeramik ZrO <sub>2</sub> MgO
	Coupling size	NdFeB – t <sub>max.</sub> = 150 °C Sm2Co17 – t <sub>max.</sub> = 300 °C	Finish bore (H7), feather keyway acc. to DIN 6885 sheet 1 (JS9)		Containment shroud type

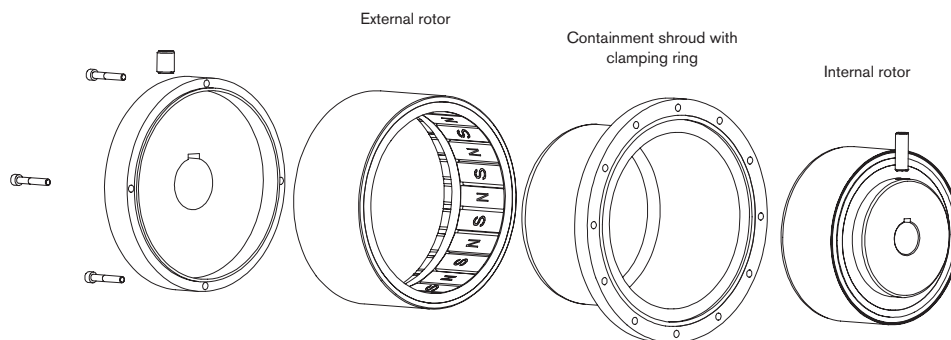
## Examples of application

Like with the types with containment shroud made of PEEK, MINEX® couplings with containment shroud made of ceramics are an economic, energy-efficient alternative to the types made of metal. Again they do not generate any eddy current losses and as a result do not generate any heat so that usually expensive cooling measures can be done without. Compared to PEEK, the containment shrouds made of ceramics are characterized by higher resistance to pressure and an excellent temperature resistance.

Typical applications: vacuum pumps, fan drives, compressors, agitators, PU foaming lines.



Optional flange hub with bore DA



## Use in explosive applications

MINEX® couplings with containment shrouds made of oxide ceramics are suitable for power transmission in drives in hazardous locations. They are certified and confirmed according to EC directive 94/9/EC (ATEX 95) as components of category II and thus suitable for the use in hazardous locations of zone 2G.

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Please read through our information included in the respective Type Examination Certificate and the operating and mounting instructions at [www.ktr.com](http://www.ktr.com).

