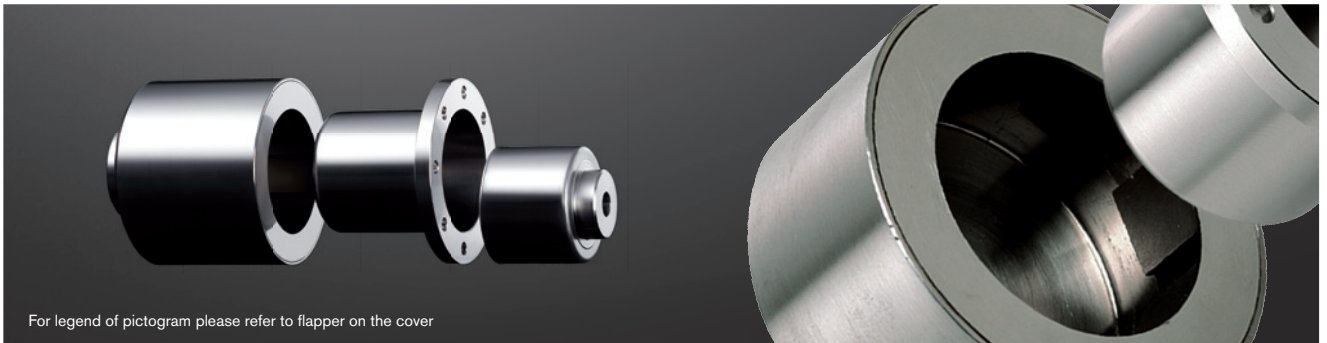


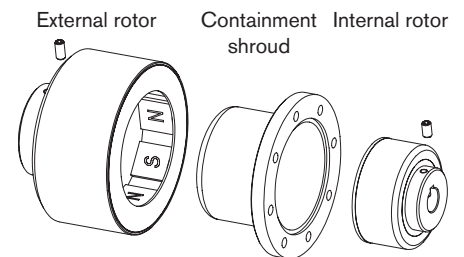
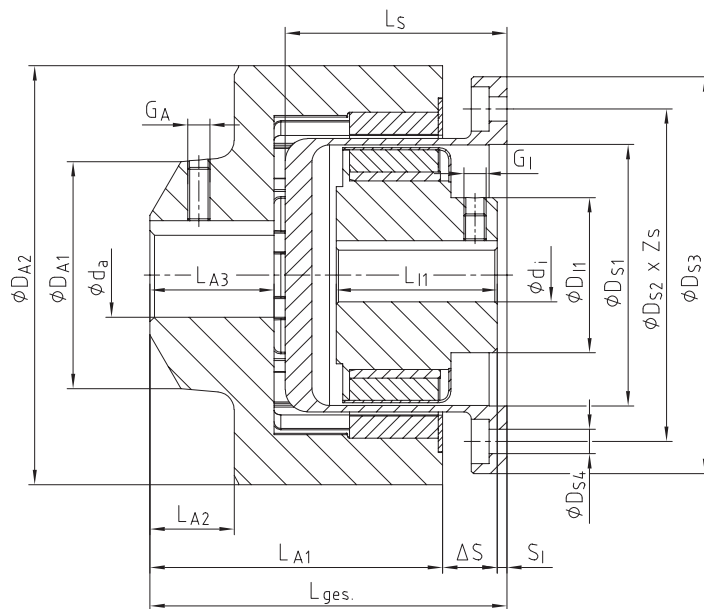
MINEX®-S

Magnetic couplings

Containment shroud – material stainless steel



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 ¹⁾ di		D _{I1}	L _{I1}	G _I	S _I		D _{S1}	D _{S2}	D _{S3}	D _{S4}	Z _S	L _S
min.	max.	min.	max.											
SA 22/4	0,15	5	9	20	20	M3	2,0	2,0	21,5	38	46	4,5	8	29
SA 34/10	1	5	12	20	22	M3	2,0	5,5	34	46	55	4,5	4	30,5
SA 46/6	3	8	16	28	33	M4	6,5	7,0	46	64	78	4,5	8	45
SA 60/8	7	12	22	35	36,3	M5	1,7	5,5	59	75	89	5,5	8	50
SB 60/8	14			36	56	M5	0,0	4,0						

Technical data – External rotor and general

Size	Dimensions [mm]											
	External rotor									General		
	Finish bore ¹⁾ da		D _{A1}	D _{A2}	G _A	L _{A1}	L _{A2}	L _{A3}	ΔS	L _{total}		
min.	max.	min.								max.		
SA 22/4	5	11	18	38	M4	35	8,5	11	5	42	42	
SA 34/10	5	14	22	53	M4	38,8	10,5	13	5,3	46	49,5	
SA 46/6	5	24	40	69,5	M5	53	16	22	9	69	69,5	
SA 60/8	9	32	50	94,5	M6	66	19	28	12	80	83,3	
SB 60/8	9	38			M8	93,3	15	30				105,2

¹⁾ Bore H7 with keyway to DIN 6885, sheet 1 [JS9]

Ordering example:	MINEX® SA 60/8	NdFeB	d _i Ø20mm	d _a Ø24mm
	Coupling size	NdFeB – t _{max.} = 150 °C Sm2Co17 – t _{max.} = 300 °C	Finish bore (H7), feather keyway acc. to DIN 6885 sheet 1 (JS9)	

Examples of application

MINEX® couplings with containment shroud made of stainless steel are the most common type for pump drives and other applications with liquids in the lower performance range. Subject to their high resistance to pressure and temperature they cover a wide application range. The magnetic rotors are available from stock in an unbored or pilot bored design. If requested, the parts can be finish bored according to ISO fit H7 with feather keyway to DIN 6885, sheet 1- JS9.

Inside the rotating magnetic field metallic containment shrouds generally cause losses of eddy current which are converted into heat and which may require cooling measures. On applications with pumps the heat produced can basically be dissipated by the medium to be pumped. If higher pressure resistance than covered by the KTR standard is required, KTR provide for customized special solutions.

Typical applications: gear pumps, centrifugal pumps, screw spindle pumps, agitators, PU foaming lines.

Use in explosive applications

MINEX® couplings with containment shroud made of stainless steel 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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If the couplings operate in hazardous locations, the user has to provide for special measures. Please read through our information included in the respective Type Examination Certificate and the operating and mounting instructions at www.ktr.com.



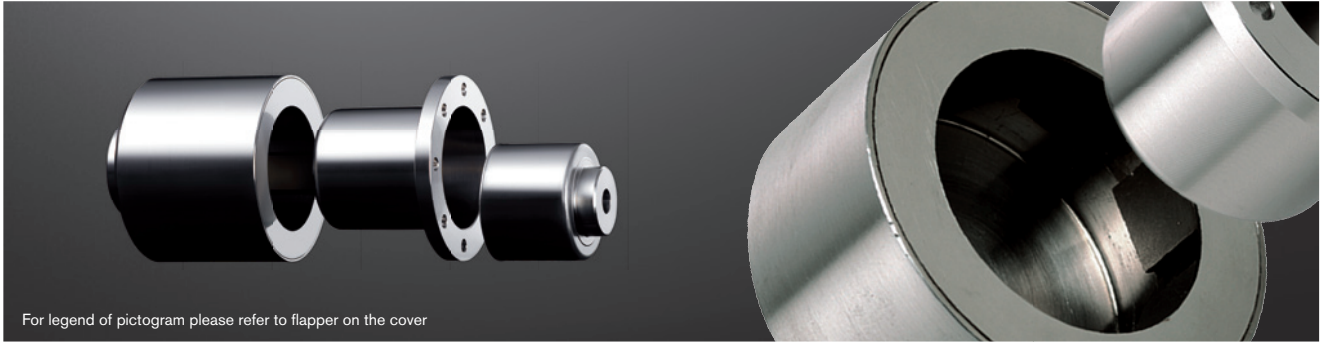
Technical data – Materials, temperature and pressure resistance

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 _{max.} [°C]	Hub	Cont. shroud	P _N /P _{max.} [bar]	Hub	Magnets	t _{max.} [°C]
SA 22/4	0,15	1.4462	NdFeB	150	1.4571	1.4571	60/90	S355J2G3	NdFeB	150
SA 34/10	1	1.4462	NdFeB	150	1.4571	1.4571	16/24	S355J2G3	NdFeB	150
SA 46/6	3	1.4571	Sm2Co17	300	1.4571	1.4571	16/24	S355J2G3	Sm2Co17	300
SA 60/8	7	1.4571	Sm2Co17	300	1.4571	1.4571	40/60	S355J2G3	Sm2Co17*	300
SB 60/8	14	1.4571	Sm2Co17	300	1.4571	1.4571	40/60	S355J2G3	Sm2Co17*	300

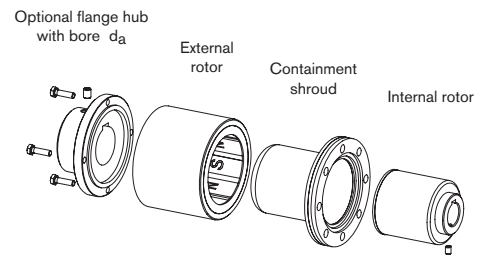
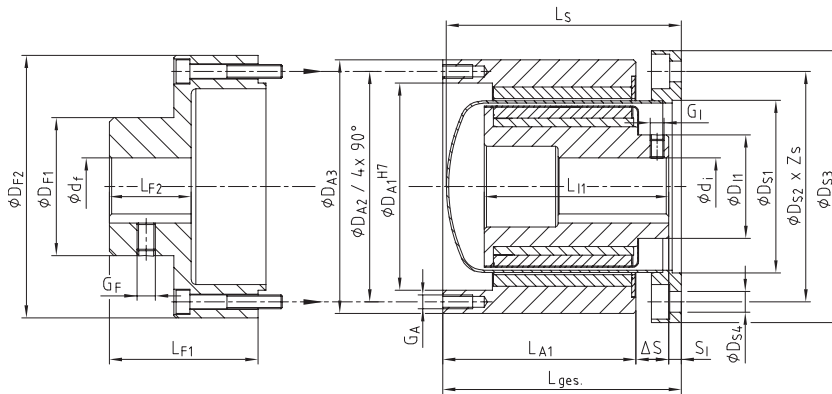
*) External rotor alternatively available with magnets made of NdFeB (t_{max.}=150°C)

MINEX®-S Magnetic couplings

Containment shroud – material Hastelloy



For legend of pictogram please refer to flapper on the cover



Technical data – Materials, temperature and pressure resistance

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 _{max.} [°C]	Hub	Cont. shroud	P _N /P _{max.} [bar]	Hub	Magnets	t _{max.} [°C]
SA 75/10	10	1.4571	Sm2Co17	300	1.4571	2.4602**	25/37,5	S355J2G3	Sm2Co17*	300
SB 75/10	24	1.4571	Sm2Co17	300	1.4571	2.4602**	25/37,5	S355J2G3	Sm2Co17*	300
SC 75/10	40	1.4571	Sm2Co17	300	1.4571	2.4602**	25/37,5	S355J2G3	Sm2Co17*	300
SA 110/16	25	1.4571	Sm2Co17	300	1.4571	2.4856	25/37,5	S355J2G3	Sm2Co17*	300
SB 110/16	60	1.4571	Sm2Co17	300	1.4571	2.4856	25/37,5	S355J2G3	Sm2Co17*	300
SC 110/16	95	1.4571	Sm2Co17	300	1.4571	2.4856	25/37,5	S355J2G3	Sm2Co17*	300
SB 135/20	100	1.4571	Sm2Co17	300	1.4571	2.4856	25/37,5	S355J2G3	Sm2Co17*	300
SC 135/20	145	1.4571	Sm2Co17	300	1.4571	2.4856	25/37,5	S355J2G3	Sm2Co17*	300
SD 135/20	200	1.4571	Sm2Co17	300	1.4571	2.4856	25/37,5	S355J2G3	Sm2Co17*	300
SC 165/24	210	1.4571	Sm2Co17	300	1.4571	2.4856	25/37,5	S355J2G3	Sm2Co17	300
SD 165/24	280	1.4571	Sm2Co17	300	1.4571	2.4856	25/37,5	S355J2G3	Sm2Co17	300
SE 165/24	370	1.4571	Sm2Co17	300	1.4571	2.4856	25/37,5	S355J2G3	Sm2Co17	300
SD 200/30	430	1.4571	Sm2Co17	300	1.4571	2.4856	16/24	S355J2G3	Sm2Co17	300
SE 200/30	550	1.4571	Sm2Co17	300	1.4571	2.4856	16/24	S355J2G3	Sm2Co17	300
SD 250/38	670	1.4571	Sm2Co17	300	1.4571	2.4856	16/24	S355J2G3	Sm2Co17	300
SE 250/38	820	1.4571	Sm2Co17	300	1.4571	2.4856	16/24	S355J2G3	Sm2Co17	300
SF 250/38	1000	1.4571	Sm2Co17	300	1.4571	2.4856	16/24	S355J2G3	Sm2Co17	300

*) External rotor alternatively available with magnets made of NdFeB (t_{max.} = 150°)

**) Containment shroud size 75 alternatively available made of stainless steel 1.4571 (P_N/P_{MAX} = 16/24 bar)

Ordering example:	MINEX® SB 75/10	NdFeB	d _i Ø20mm	d _a Ø24mm	Hastelloy
	Coupling size	NdFeB – t _{max.} = 150 °C Sm2Co17 – t _{max.} = 300 °C	Finish bore (H7), feather keyway acc. to DIN 6885 sheet 1 (JS9)	Containment shroud type stainl. steel 1.4571 or Hastelloy	

Examples of application

MINEX® couplings with containment shroud made of Hastelloy are the most common type for pump drives and other applications with liquids in the average and higher performance range. Subject to their high resistance to pressure and temperature they cover a wide application range.

Inside the rotating magnetic field metallic containment shrouds generally cause losses of eddy current which are converted into heat and which may require cooling measures. On applications with pumps the heat produced can basically be dissipated by the medium to be pumped. If higher pressure resistance than covered by the KTR standard is required, KTR provide for customized special solutions.

Typical applications: gear pumps, centrifugal pumps, screw spindle pumps, agitators, PU foaming lines.

Use in explosive applications

MINEX® couplings with containment shroud made of stainless steel 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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If the couplings operate in hazardous locations, the user has to provide for special measures. Please read through our information included in the respective Type Examination Certificate and the operating and mounting instructions at www.ktr.com.



Technical data – External rotor and general																												
Size	Dimensions [mm]																											
	Internal rotor						Containment shroud						External rotor						Flange hub						General			
	Finish bore ¹⁾		D _{I1}	L _{I1}	G _I	S _I		D _{S1}	D _{S2}	D _{S3}	D _{S4}	Z _S	L _S	D _{A1}	D _{A2}	D _{A3}	L _{A1}	G _A	d _f max.	D _{F1}	D _{F2}	L _{F1}	L _{F2}	G _F	ΔS	Overall length ²⁾ incl. flange hub		
	d _i min.	d _i max.				min.	max.																			min.	max.	min.
SA 75/10			39,5			46,5											41,3								12,2	140	164,5	
SB 75/10	12	32	45	58	M6	4	26,5	75	100	118	9	8	102	90	100	110	61,3	M6	42	60	114	64,5	35,5	M8	14,2	166,5	166,5	
SC 75/10			80			4,0											83,8											
SA 110/16			45			55,0											41,3									177,5		
SB 110/16	14	55	80	65	M8	4	35,0	110	133	153	9	12	115	126	135	145	61,3	M6	55	85	150	99,5	59,5	M10	18,7	183,5	214,5	
SC 110/16			85			15,0											81,3									203,5		
SB 135/20			65			50,5											70,3											
SC 135/20	20	70	90	85	M10	4	30,5	135	158	178	9	16	139	150	160	170	90,3	M6	70	100	170	65,5	48,5	M12	18,2	190,5	204,5	
SD 135/20			110			8,0											110,3								20,7	200,5		
SC 165/24			85			61,5											90,3									18,2		
SD 165/24	24	80	110	110	M12	6	39,0	163,5	192	218	11	12	170	180	188	198	110,3	M6	75	110	198	77	60	M16	20,7	233	247	
SE 165/24			130			19,0											130,3										234	
SD 200/30			135			24,0											130,3											
SE 200/30	38	90	130		M16	6		200	252	278	11	12	180	212	222	232		M6	80	120	232	120	98	M12	25,7	282	300	
SD 250/38			115			46,0											110,3										282	
SE 250/38	38	100	165	135	M16	6	26,0	255	285	315	13,5	12	182	272	282	292	130,3	M6	100	150	300	140	93	M16	25,7	302	322	
SF 250/38			155			6,0											150,3										322	

¹⁾ Bore H7 with keyway to DIN 6885, sheet 1 (JS9)

²⁾ * Total length excl. flange hub = LS