

Pin and Bush Couplings REB ... DCS

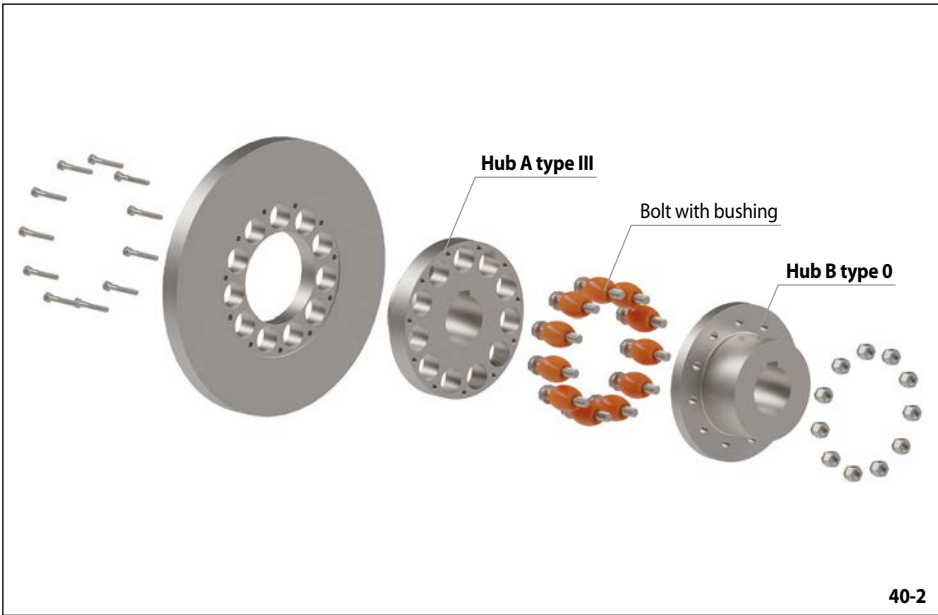
torsional elastic
with brake disc



40-1

Features

- Nominal torques up to 112 000 Nm
- Compensation of axial, radial and angular misalignments
- Coupling and brake disc matched to RINGSPANN brake systems
- Adsorbs vibrations
- Fail-safe in the event of the failure of the bushings
- Easy replacement of bushings without disassembly of the coupling halves
- Maintenance free, no lubrication necessary
- Typical applications: Belt drives, ventilators, general mechanical engineering



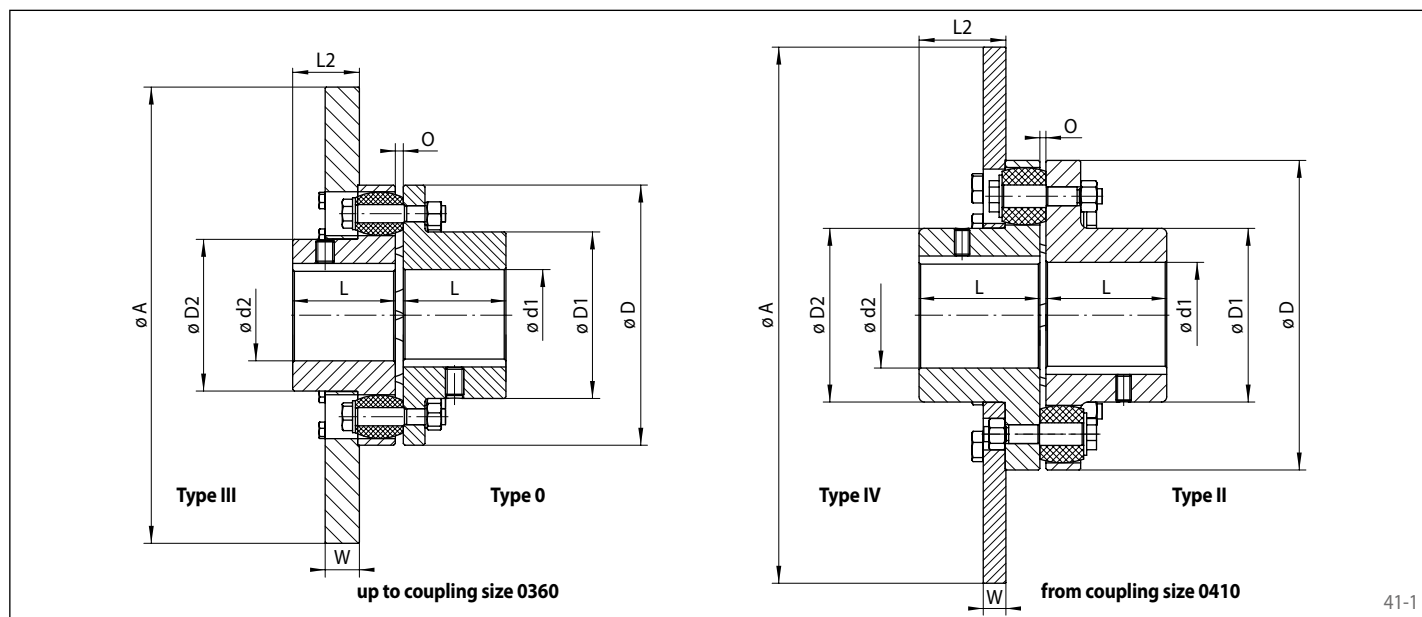
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Order example

	Code
Coupling design	REB
Coupling size	0228
Type	DCS
Material of the hub: • Cast iron	GJL
Hub A, type: • 0, standard, pin hub (up to size 0360) • II, standard, pin and bush hub (from size 0410)	0 2
Hub A, design: • finish bored with keyway • roughbored	FB VA
Bore diameter hub A	080
Hub B, type: • III, with brake disc, bush hub (up to size 0360) • IV, with brake disc, pin and bush hub (from size 0410)	3 4
Hub B, design: • finish bored with keyway • roughbored	FB VA
Bore diameter hub B	060
Material of bushings: • NR 80 Shore-A • PU 92 Shore-A • HTrans	NR80 PU92 HT00
Brake disc size and material *	SOKE
REB 0228 DCS-GJL-0FB080-3FB060-NR80-SOKE	
* see table "Brake discs and order code"	

torsional elastic
with brake disc



Coupling size	Max. speed n_{max}	Pilot bore d1/d2	Min. bore d1/d2			Max. bore d1/d2			D	D1	D2	L	O	Permissible misalignments		
			Hub type 0	Hub type II	Hub type III + IV (with brake disc)	Hub type 0	Hub type II	Hub type III + IV (with brake disc)						Axial mm	Radial mm	Angular °
0228	3000	26	28	-	28	100	-	90	228	146	133	90	4-10	3,0	0,60	1,0
0252	2700	36	38	-	38	115	-	105	252	167	156	100	4-10	3,0	0,60	1,0
0285	2400	46	48	-	48	125	-	115	285	186	170	110	4-10	3,0	0,70	1,0
0320	2100	53	55	-	55	135	-	125	320	212	196	125	4-10	3,0	0,70	1,0
0360	1900	63	65	-	65	150	-	135	360	232	212	140	4-12	4,0	0,90	1,0
0410	1700	73	-	75	75	-	160	160	410	230	-	160	4-12	4,0	1,10	1,0
0450	1500	86	-	85	85	-	180	180	450	260	-	180	4-12	4,0	1,10	0,5
0500	1350	93	-	95	95	-	200	200	500	290	-	200	4-12	4,0	1,10	0,4
0560	1200	93	-	95	95	-	225	225	560	320	-	220	4-8	2,0	1,50	0,3
0630	1050	98	-	100	100	-	250	250	630	355	-	240	4-8	2,0	1,50	0,3
0710	950	98	-	100	100	-	260	260	710	385	-	260	5-9	2,0	1,80	0,3

Brake discs and ordering code

Material	ø A x W	Coupling size										
	mm	0228	0252	0285	0320	0360	0410	0450	0500	0560	0630	0710
Steel	400 x 30	SOFE										
	450 x 30	SOHE	SOHE	SOHE								
	500 x 30	SOIE	SOIE	SOIE	SOIE							
	560 x 30	SOKE	SOKE	SOKE	SOKE	SOKE						
	630 x 30		SOLE	SOLE	SOLE	SOLE	SOLE	SOLE				
	710 x 30				SOME	SOME	SOME	SOME	SOME			
	800 x 30							SONE	SONE	SONE	SONE	SONE
	900 x 30									SOOE	SOOE	SOOE
	1000 x 30										SOPE	SOPE
Nodular cast iron	300 x 12,5	G0CA	G0CA									
	355 x 12,5	G0EA	G0EA	G0EA								
	355 x 25	G0ED	G0ED	G0ED								
	430 x 12,5	G0GA	G0GA	G0GA	G0GA	G0GA						
	430 x 25			G0GD	G0GD	G0GD						
	520 x 12,5				G0JA	G0JA	G0JA					
	520 x 25				G0JD	G0JD	G0JD					
	630 x 25					G0LD	G0LD	G0LD	G0LD			
	710 x 25							G0MD	G0MD	G0MD		
	800 x 25							G0ND	G0ND	G0ND	G0ND	
	900 x 25									G0OD	G0OD	G0OD
	1000 x 25										G0PD	G0PD

Bushings



Bushing NR 80 Shore-A

Material: Natural rubber
 Hardness: 80 ±5 Shore -A
 Temperature range: -45 °C to +70 °C
 Colour: black

Coupling size	Nominal torque T_{KN} Nm	Nominal power at 100 min^{-1} P_{K100} kW	Max. torque $T_{K \max}$ Nm	Alternating torque T_{KW} Nm	Torsional stiffness $C_{T \text{ dyn}}$ Nm/rad x 10^3			Relative damping ψ at 0,5 T_{KN}
					1,0 T_{KN}	0,5 T_{KN}	0,25 T_{KN}	
0228	2050	21	6100	410	406	225	119	1,4
0252	3060	32	9200	614	689	382	202	
0285	4550	48	13600	910	1052	547	272	
0320	6000	64	18200	1220	5045	1894	814	
0360	8900	93	26700	1780	6653	2498	1073	
0410	12000	126	36100	2410	8066	3029	1301	
0450	18600	195	55500	3720	13973	5247	2254	
0500	25800	270	77000	5160	21481	8066	3465	
0560	31000	325	93000	6201	19199	7209	3097	
0630	41900	440	125500	8400	29671	11141	4786	
0710	75000	785	225000	15000	45968	17260	7415	



Bushing PU 92 Shore-A

Material: Polyurethane
 Hardness: 92 ±5 Shore-A
 Temperature range: -30 °C to +80 °C
 Colour: orange

Coupling size	Nominal torque T_{KN} Nm	Nominal power at 100 min^{-1} P_{K100} kW	Max. torque $T_{K \max}$ Nm	Alternating torque T_{KW} Nm	Torsional stiffness $C_{T \text{ dyn}}$ Nm/rad x 10^3			Relative damping ψ at 0,5 T_{KN}
					1,0 T_{KN}	0,5 T_{KN}	0,25 T_{KN}	
0228	3000	31,5	9000	602	326	264	193	0,5
0252	4580	48,0	13700	917	562	455	333	
0285	6800	72,0	20600	1375	893	721	559	
0320	9100	96,0	27500	1834	2035	1093	686	
0360	13300	139,5	39900	2664	2660	1429	897	
0410	18000	189,0	54000	3610	3225	1732	1088	
0450	27900	292,5	83500	5587	5651	3034	1906	
0500	38600	405,0	116000	7736	8687	4665	2930	
0560	46500	487,5	139500	9311	7764	4169	2619	
0630	63000	660,0	189000	12606	11999	6443	4048	
0710	112000	1177,5	337000	22490	18590	9982	6271	

Bushings



Bushing HTrans

Material: Polyurethane
Hardness: 55 ±2 Shore-D
Temperature range: -30 °C to +120 °C
Colour: white

Coupling size	Nominal torque T _{KN} Nm	Nominal power at 100 min ⁻¹ P _{K100} kW	Max. torque T _{K max} Nm	Alter-nating torque T _{KW} Nm	Torsional stiffness C _{T dyn} Nm/rad x 10 ³			Relative damp-ing ψ at 0,5 T _{KN}
					1,0 T _{KN}	0,5 T _{KN}	0,25 T _{KN}	
0228	5 000	53	15 100	1 012	668	583	475	0,43
0252	7 600	80	22 900	1 528	1 143	997	813	
0285	11 400	120	34 300	2 292	1 444	1 197	952	
0320	15 200	160	45 800	3 056	2 159	1 790	1 424	
0360	22 200	233	66 500	4 450	2 836	2 351	1 871	