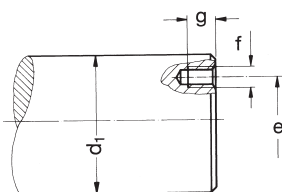
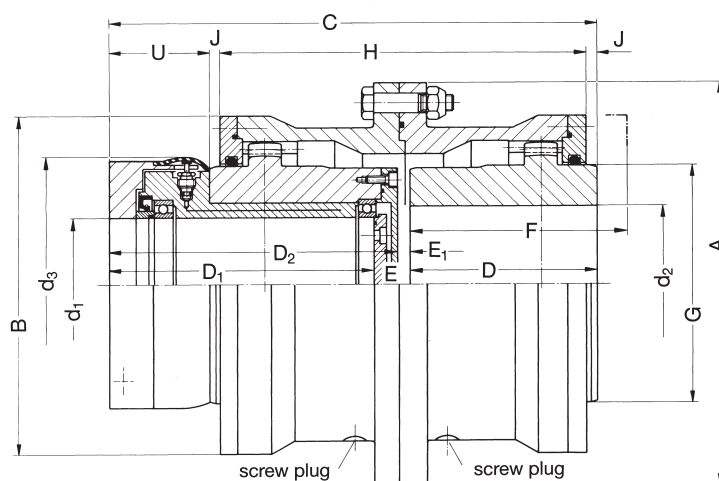


Curved Tooth Couplings SBk with HYGUARD® Safety Couplings BW

Table of Dimensions No. 243 086



In this version, the HYGUARD® BW safety element is combined with the curved tooth coupling of the SBk construction series. Contrary to the SB-design, this double engagement coupling only allows less angular offset, i.e. $\pm 0,75$ degrees, and ± 2 degrees for special designs. The sleeve is

centered over a combined tooth tip/tooth flank centering. Curved tooth couplings of the SBk-series are intended for grease lubrication. Serving as safety coupling, this combination is also suitable for heavy-duty drives.

1) Values for complete coupling with max. d_2

Shaft connecting dimensions to attach bearing cover			
Type BW	Pitch Circle Size	Size of Thread	Depth of Thread
Size	\varnothing mm	f Number	g mm
60	40	3xM8	15
70	50	4xM8	15
80	55	4xM8	15
90	60	4xM8	15
100	70	4xM8	20
110	75	4xM8	20
120	85	4xM8	20
130	100	4xM8	20
140	100	4xM8	20
150	120	4xM8	20
160	120	4xM10	20
170	125	4xM10	20
180	130	4xM10	20
190	140	4xM10	20
200	150	4xM12	25
220	170	6xM12	25

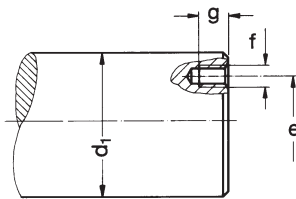
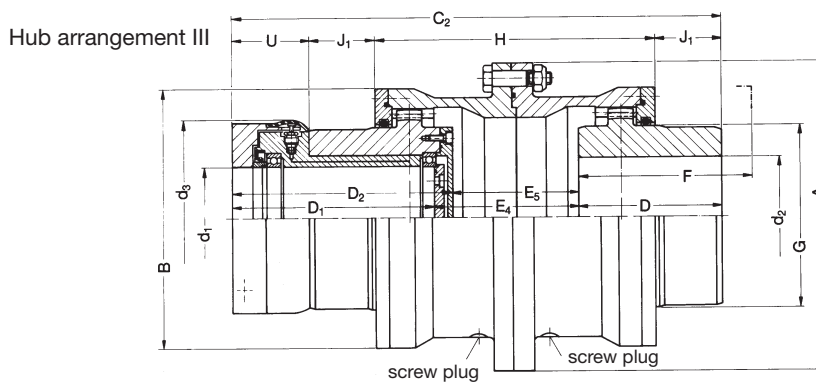
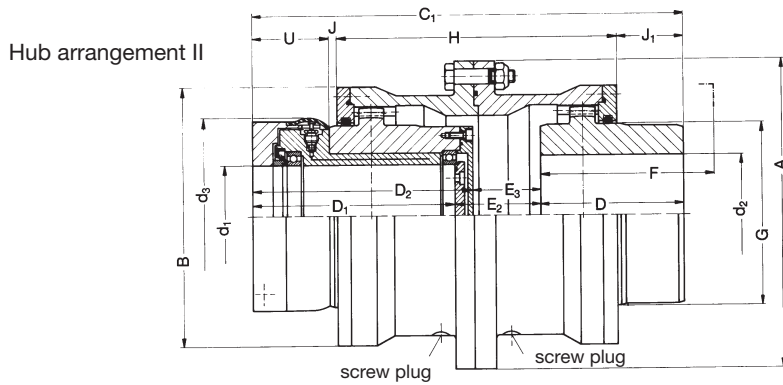
Dimensions are subject to change due to technical progress.

Type Combination SBk/BW Size	Torque Range T ~ Nm	Bore			Dimensions														Weight ¹⁾ kg	Mass Moment of Inertia ¹⁾ J kgm ²	
		d_1 mm	d_2 rough mm	d_2 min mm	d_2 max mm	d_3 mm	A mm	B mm	C mm	D mm	D_1 mm	D_2 mm	E mm	E_1 mm	F mm	G mm	H mm	J mm			U mm
70/ 60	1800 – 3600	60	26	28	80	133	200	160	240	90	125 ^{+0,5}	144	25	6	120	112,5	178	4	54	30	0,099
80/ 70	3000 – 6000	70	26	28	92	148	220	178	264	100	138 ^{+0,5}	158	26	6	130	128	198	4	58	34	0,165
90/ 80	3900 – 7800	80	30	32	105	157	240	196	286	110	154 ^{+0,5}	168	22	8	140	145	218	5	58	41	0,245
100/ 90	5000 – 10000	90	30	32	115	168	270	225	319	125	167 ^{+0,5}	186	27	8	150	160,5	244	7	61	62	0,463
110/100	7500 – 15000	100	53	55	126	184	280	240	361	140	189 ^{+0,5}	213	32	8	170	176	264	12	73	73	0,615
125/110	10000 – 20000	110	63	65	145	201	310	265	381	150	190 ^{+0,5}	221	41	10	180	200,5	284	13	71	94	1,01
140/130	17000 – 33000	130	73	75	162	219	340	295	426	170	231 ^{+0,5}	246	25	10	200	224,5	330	10	76	132	1,72
160/150	23000 – 46000	150	83	85	185	239	390	325	472	190	255 ^{+0,5}	270	27	12	230	256,5	360	16	80	181	3,01
180/160	36000 – 71000	160	118	120	210	247	435	370	537	220	280 ^{+0,5}	305	37	12	260	288,5	416	18	85	255	5,34
200/180	49000 – 98000	180	138	140	230	269	480	415	601	250	276 ^{+0,5}	337	75	14	300	320,5	476	19	87	343	8,86
225/200	70000 – 140000	200	158	160	260	292	545	465	666	280	327 ^{+0,5}	370	59	16	330	362	532	22	90	506	16,48
250/220	85000 – 170000	220	158	160	280	312	580	510	710	300	327 ^{+0,5}	370	83	40	350	400	556	32	90	616	22,89

Curved Tooth Couplings SBk with HYGUARD® Safety Couplings BW



Table of Dimensions No. 243 195



The structure of the SBk-series allows different arrangements of the hub in the housing, so that greater shaft distances can be bridged over. In case of taper bores the enlarged E-dimension provides space for the use of shaft nuts.

1) Values for complete coupling with max d_2

Shaft connecting dimensions to attach bearing cover			
Type BW	Pitch Circle e Ø mm	Size of Thread f Number	Depth of Thread g mm
60	40	3xM8	15
70	50	4xM8	15
80	55	4xM8	15
90	60	4xM8	15
100	70	4xM8	20
110	75	4xM8	20
120	85	4xM8	20
130	100	4xM8	20
140	100	4xM10	20
150	120	4xM8	20
160	120	4xM10	20
170	125	4xM10	20
180	130	4xM10	20
190	140	4xM10	20
200	150	4xM12	25
220	170	6xM12	25

Type Com- bination SBk/BW	Dimensions with Hub Arrangement III		
Size	C ₂ mm	E ₄ mm	E ₅ mm
70/ 60	312	97	78
80/ 70	348	110	90
90/ 80	382	118	104
100/ 90	421	129	110
110/100	469	140	116
125/110	497	157	126
140/130	566	165	150
160/150	616	171	156
180/160	713	213	188
200/180	805	279	218
225/200	890	283	240
250/220	974	347	304

Dimensions are subject to change due to technical progress.

Type Com- bination SBk/BW	Torque Range T ~ Nm	d ₁ mm	Bore d ₂				Dimensions with Hub Arrangement II														Weight ¹⁾ kg	Mass Moment of Inertia ¹⁾ J kgm ²
			rough mm	min mm	max mm	max mm	d ₃ mm	A mm	B mm	C ₁ mm	D mm	D ₁ mm	D ₂ mm	E ₂ mm	E ₃ mm	F mm	G mm	H mm	J mm	J ₁ mm		
70/ 60	1800 – 3600	60	26	28	80	133	200	160	276	90	125 ^{+0.5}	144	61	42	120	112,5	178	4	40	54	30	0,099
80/ 70	3000 – 6000	70	26	28	92	148	220	178	306	100	138 ^{+0.5}	158	68	48	130	128	198	4	46	58	34	0,165
90/ 80	3900 – 7800	80	30	32	105	157	240	196	334	110	154 ^{+0.5}	168	70	56	140	145	218	5	53	58	41	0,245
100/ 90	5000 – 10000	90	30	32	115	168	270	225	370	125	167 ^{+0.5}	186	78	59	150	160,5	244	7	58	61	62	0,463
110/100	7500 – 15000	100	53	55	126	184	280	240	415	140	189 ^{+0.5}	213	86	62	170	176	264	12	66	73	73	0,615
125/110	10000 – 20000	110	63	65	145	201	310	265	439	150	190 ^{+0.5}	221	99	68	180	200,5	284	13	71	71	94	1,01
140/130	17000 – 33000	130	73	75	162	219	340	295	496	170	231 ^{+0.5}	246	95	80	200	224,5	330	10	80	76	132	1,72
160/150	23000 – 46000	150	83	85	185	239	390	325	544	190	255 ^{+0.5}	270	99	84	230	256,5	360	16	88	80	181	3,01
180/160	36000 – 71000	160	118	120	210	247	435	370	625	220	280 ^{+0.5}	305	125	100	260	288,5	416	18	106	85	255	5,34
200/180	49000 – 98000	180	138	140	230	269	480	415	703	250	276 ^{+0.5}	337	177	116	300	320,5	476	19	121	87	343	8,86
225/200	70000 – 140000	200	158	160	260	292	545	465	778	280	327 ^{+0.5}	370	171	128	330	362	532	22	134	90	506	16,48
250/220	85000 – 170000	220	158	160	280	312	580	510	842	300	327 ^{+0.5}	370	215	172	350	400	556	32	164	90	616	22,89