

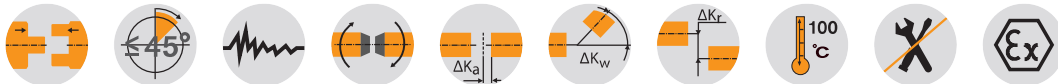
BoWex-ELASTIC® HE1 - HE4

Highly flexible flange couplings

Axial plug-in, available in different kinds of hardness



For legend of pictogram please refer to flapper on the cover



BoWex-ELASTIC® Type HE1 - HE4

Size	Bore d [mm]		Flange connection acc. to SAE - J620											Dimensions [mm]								Type HE1 / HE2			Type HE3 / HE4		
	Pilot bored	Max.	6 1/2"	7 1/2"	8"	10"	11 1/2"	14"	l3 HE1/HE2	l3 HE3/HE4	D5	l2	D4	D	l1	LHE1	LHE2	LHE3	LHE4	Weight with max. bore [kg]	Mass moment of inertia with max. bore [kgm²]		Weight with max. bore [kg]	Mass moment of inertia with max. bore [kgm²]			
																					JA	JL		JA	JL		
42 HE	-	42	●	●	●				4	2	180	33	145	65	42	70	50	55	40	1.8	0.0074	0.0016	1.8	0.0071	0.0021		
																					2.8	0.0172	0.0016	-	-		
																						2.3	0.0119	0.0021	1.9	0.0070	0.0022
48 HE	-	48			●				4	2	198	37	163	68	50	78	50	68	42	2.6	0.0170	0.0021	2.1	0.0103	0.0022		
																						3.4	0.0342	0.0021	2.5	0.0201	0.0022
																						4.9	0.0424	0.0069	-	-	
65 HE	21	65				●			5	-	244	55	205	96	55	85	62	-	-	5.7	0.0647	0.0069	-	-			
G 65 HE						●			-	3	-	45	205	96	55	-	-	73	50	-	-	-	4.1	0.0281	0.0075		
																							4.6	0.0423	0.0075		
																							3.8	0.0163	0.0093		
GG 65 HE						●			-	3	-	48	220	96	55	-	-	73	50	-	-	-	4.4	0.0294	0.0093		
																							4.9	0.0439	0.0093		
80 HE	31	90				●			-						126	74				8.1	0.0239	0.0307	9.1	0.0414	0.0305		
G 80 HE	31	90				●			-	4	316	56	265	124	90	132	80	112	60	10.2	0.0765	0.0307	-	-			
GG 80 HE						●			-	4	-	71	302	124	90	-	-	130	80	-	-	-	11.9	0.0768	0.0498		
100 HE	38	100				●		-	4	-	80	350	152	110	142	90	150	82	-	-	-	18.3	0.2028	0.1104			

Other flange connections on request

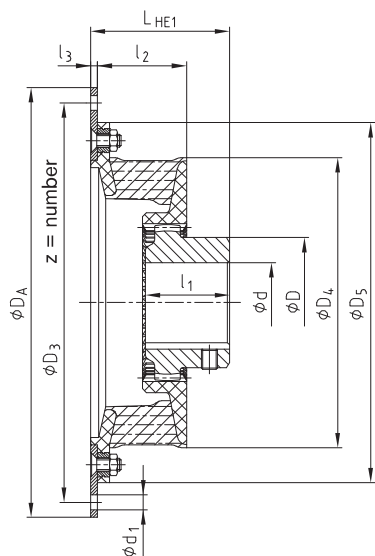
Technical data

Size	Shore	Torque [Nm]			Perm. damping power P _{KW} [W]			Perm. operating speed n _{max} [rpm]	Dynamic torsion spring stiffness C _{dyn} [Nm/rad]	Relative damping ψ	Resonance factor V _R ≈ 2 • π / ψ	Radial spring stiffness C _r [N/mm]
		T _{KN}	T _{K max}	with 10 Hz T _{KW}	60 °C	80 °C	90 °C					
42 HE	T40 Sh	130	390	39	26	13	6.5	6200	550	0.6	10.5	142
	T50 Sh	150	450	45					850	0.8	7.9	219
	T65 Sh	180	540	54					2700	1.2	5.2	697
48 HE	T40 Sh	200	600	60	36	18	9	5600	850	0.6	10.5	176
	T50 Sh	230	690	69					1300	0.8	7.9	269
	T65 Sh	280	840	84					3500	1.2	5.2	724
65 HE	T40 Sh	350	1050	105	60	30	15	4500	1600	0.6	10.5	209
	T50 Sh	400	1200	120					2200	0.8	7.9	288
	T65 Sh	500	1500	150					6000	1.2	5.2	784
G 65 HE	T40 Sh	430	1290	129	68	34	17	4300	2350	0.6	10.5	259
	T50 Sh	500	1500	150					3000	0.8	7.9	346
	T65 Sh	620	1860	186					8500	1.2	5.2	975
GG 65 HE	T40 Sh	600	1800	180	76	38	19	4000	3650	0.6	10.5	240
	T50 Sh	700	2100	210					4800	0.8	7.9	324
	T65 Sh	850	2550	255					13500	1.2	5.2	911
80 HE	T40 Sh	750	2250	225	120	60	30	3600	4500	0.6	10.5	351
	T50 Sh	950	2850	285					6500	0.8	7.9	507
	T65 Sh	1200	3600	360					18000	1.2	5.2	1404
G 80 HE	T40 Sh	1250	3750	375	180	90	45	3000	7500	0.6	10.5	476
	T50 Sh	1600	4800	480					12000	0.8	7.9	762
	T65 Sh	2000	6000	600					32000	1.2	5.2	2031
GG 80 HE	T40 Sh	1550	4650	465	196	98	49	3000	9200	0.6	10.5	395
	T50 Sh	2000	6000	600					14200	0.8	7.9	635
	T65 Sh	2500	7500	750					39600	1.2	5.2	1650
100 HE	T40 Sh	2000	6000	600	212	106	53	2700	12000	0.6	10.5	366
	T50 Sh	2500	7500	750					19000	0.8	7.9	570
	T65 Sh	3200	9600	960					48000	1.2	5.2	1200

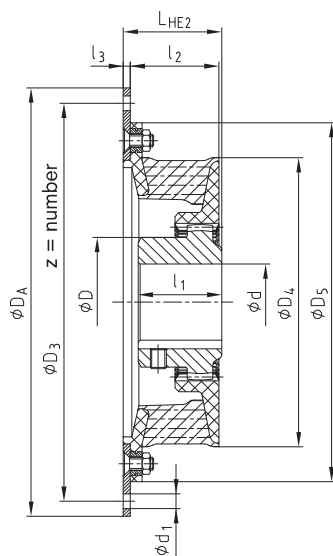
T = Temperature-stable rubber compound. The technical data specified apply for an ambient temperature of T = 60 °C.

* Expiring as a standard

Ordering example:	BoWex-ELASTIC® 42	HE1	40	8	70	U
	Coupling size	Type	Elastomer hardness	Flange Ø D _A according to SAE or special	Mounting length L _{HE}	Unbored or with finish bore

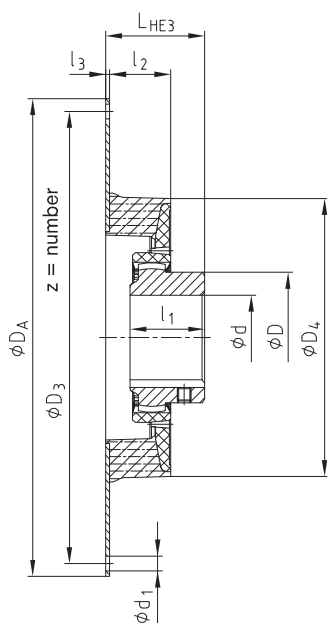


Type HE1

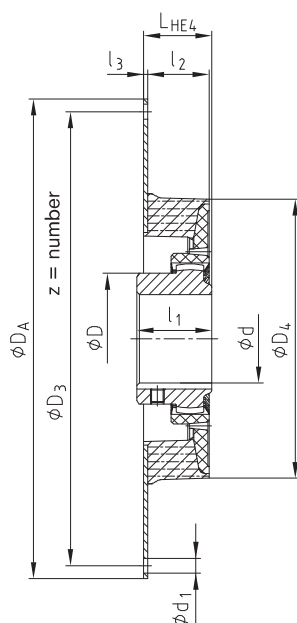


Type HE2

Flange dimensions according to SAE J620 [mm]				
Nominal size	DA	D3	z	d1
6 1/2"	215.90	200.02	6	9
7 1/2"	241.30	222.25	8	9
8"	263.52	244.47	6	11
10"	314.32	295.27	8	11
11 1/2"	352.42	333.37	8	11
14"	466.72	438.15	8	13



Type HE3



Type HE4

Displacements																
Size	42 HE			48 HE			65 HE G65 HE GG65 HE			80 HE G80 HE GG80 HE			100 HE			
	T40 Sh	T50 Sh	T65 Sh	T40 Sh	T50 Sh	T65 Sh	T40 Sh	T50 Sh	T65 Sh	T40 Sh	T50 Sh	T65 Sh	T40 Sh	T50 Sh	T65 Sh	
Perm. radial displacement ΔKr [mm]	n=1500 rpm	1.1	1.0	0.5	1.2	1.1	0.5	1.6	1.5	0.7	1.8	1.7	0.8	2.2	2.0	1.0
	max. 1)	3.6	3.3	1.5	3.8	3.5	1.7	5.1	4.7	2.2	5.7	5.3	2.4	6.5	6.0	3.0
Perm. angular displacement ΔKw [°]	n=1500 rpm	1.0	0.75	0.5	1.0	0.75	0.5	1.0	0.75	0.5	1.0	0.75	0.5	1.0	0.75	0.5
	n=3000 rpm	0.5	0.4	0.25	0.5	0.4	0.25	0.5	0.4	0.25	0.5	0.4	0.25	0.5	0.4	0.25
Perm. angular displacement ΔKw [mm]	max. 1)	1.5			1.5			1.5			1.5			1.5		
Perm. axial displacement ΔKa [mm]	± 2			± 2			± 2			± 2			± 3			

1) For short-term start-up operation

Mounting procedure, screw type with property class, tightening torques as per KTR assembly instructions (see www.ktr.com).