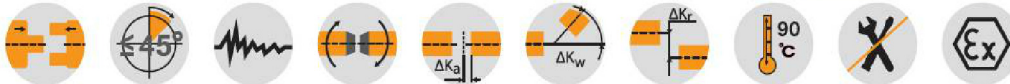


BoWex-ELASTIC® HE3 und HE4 Highly flexible flange couplings

Axial plug-in, available in different kinds of hardness



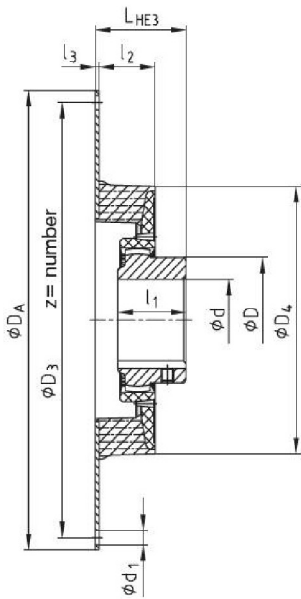
For legend of pictogram please refer to flapper on the cover



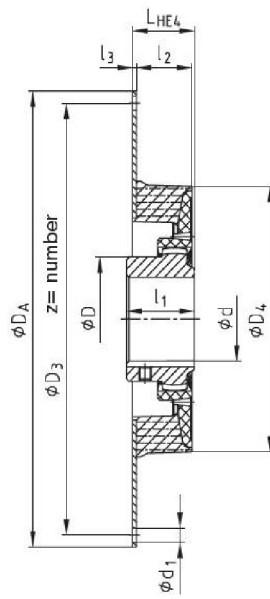
BoWex-ELASTIC® Type HE3 and HE4																						
Size	Bore d [mm]		Flange connection according to SAE - J 620												Dimensions [mm]					Weight with pilot bored coupling [kg]	Mass moment of inertia with pilot bored coupling	
	Pilot bored	max.	6 1/2"	7 1/2"	8"	10"	11 1/2"	14"	16"	18"	21"	24"	l ₃	l ₂	D ₄	D	l ₁	LHE3	LHE4		J _A [kgm ²]	J _L [kgm ²]
42 HE	-	42	●	●									2	33	145	65	42	55	40	1,7	0,0057	0,0014
48 HE	-	48		●	●								2	37	163	68	50	68	42	1,8	0,0060	0,0020
G 65 HE	21	65				●							3	45	205	96	55	73	50	2,2	0,0065	0,0020
GG 65 HE	21	65				●							3	48	220	96	55	73	50	5,3	0,0242	0,0076
80 HE	31	80				●														11,4	0,0388	0,0305
G 80 HE	31	80				●							4	66	300	124	90	122	70	11,6	0,0702	0,0465
100 HE	38	100					●						4	80	350	152	110	150	82	24,1	0,1951	0,1019
125 HE	45	125					●						-	92	416	192	140	186	103	45,8	0,3013	0,2861
G 125 HE	45	125					●						6	89	440	192	140	179	91	47,7	0,4123	0,2861
150 HE	44	160						●					6	140	470	225	150	205	160	66,7	0,6380	0,2916
G 150 HE	44	160						●					6	140	504	225	150	205	160	76	0,6918	0,5192
200 HE	46	180							●				6	149	588	250	175	240	160	100	1,535	1,145
200D HE	46	180								●			25	325	588	250	300	350	-	355	16,75	2,98
G200 HE	46	180									●		6	149	600	250	175	240	160	105	1,727	1,347
G200D HE	46	180										●	25	325	600	250	300	350	-	370	18,65	3,28

Ordering example:	BoWex-ELASTIC® 80	HE3	40	10	112	U
	Coupling size	Type	Elastomer hardness	Flange Ø D _A acc. to SAE or special	Mounting length LHE	Unbored or with finish bore

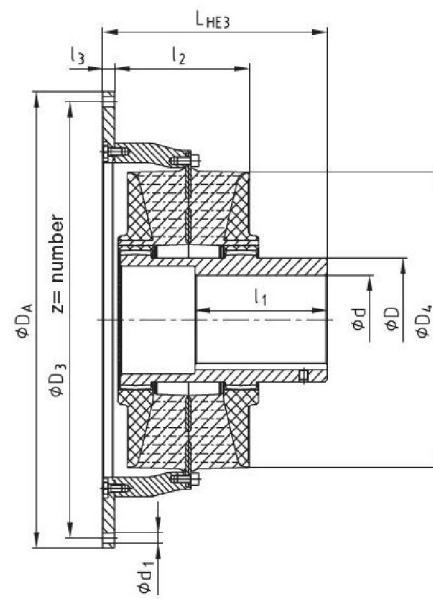
Type HE3



Type HE4



Type D



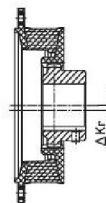
Flange dimensions acc. to SAE J 620 [mm]				
Size	DA	D3	z	d1
6 1/2"	215,90	200,02	6	9
7 1/2"	241,30	222,25	8	9
8"	263,52	244,47	6	11
10"	314,32	295,27	8	11
11 1/2"	352,42	333,37	8	11
14"	466,72	438,15	8	13
16"	517,50	489,00	8	13
18"	571,50	542,90	6	17
21"	673,10	641,35	12	17
24"	733,42	692,15	12	21

Displacements

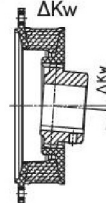
For other operating speeds or higher operating temperatures the permissible radial displacement is calculated as follows:

$$\Delta K_{rperm.} = \Delta K_r \cdot St \cdot \sqrt{1500 / n_x}$$

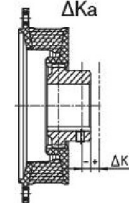
Radial displacement ΔK_r



Angular displacement ΔK_w



Axial displacement ΔK_a



Displacements																									
Size	42 HE			48 HE			65 HE/G 65 HE			80 HE/G 80 HE			100 HE			125 HE/G 125 HE			150 HE/G 150 HE			200HE/G 200 HE			
Elastomer hardness [Shore A]	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	T40 Sh	T50 Sh	T65 Sh	T40 Sh	T50 Sh	T65 Sh	T40 Sh	T50 Sh	T65 Sh	
Perm. radial displacement ΔK_r [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	2,5	2,3	1,1	2,8	2,5	1,3	3,0	2,7	1,5
	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	7,5	6,9	3,3	8,0	7,5	4,0	8,5	8,0	4,5
Perm. angular displacement ΔK_w [°]	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	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	0,5	0,4	0,25						
Perm. angular displacement ΔK_w [mm]	max. ¹⁾	1,5			1,5			1,5			1,5			1,5			1,5			1,5			1,5		
Perm. axial displacement ΔK_a [mm]		± 2			± 2			± 2			± 2			± 3			± 3			± 5			± 5		

¹⁾ for short-term starting operation

Process of assembly, screw type with quality, tightening torques according to KTR assembly instructions (see www.ktr.com).