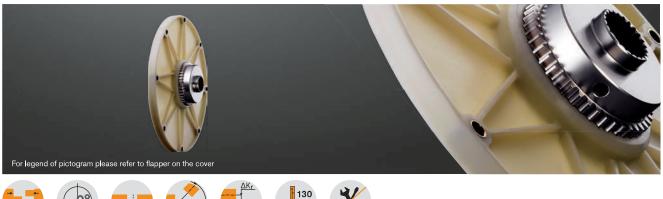
BoWex® FLE-PA Torsionally rigid flange couplings

Axial plug-in, maintenance-free, torsionally rigid

















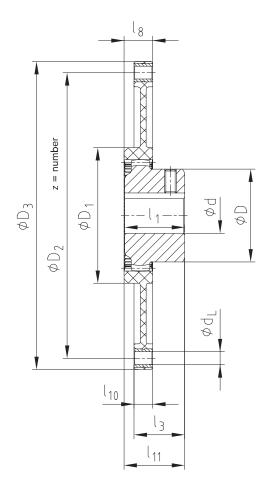
	BoWex® FLE-PA – Dimensions/nominal dimension to SAE																		
Size	Pilot bore	Finish	bore				Dimensi	ons [mm]				Special length		Nomir	nal size ad	cc. to SA	E (D3)		Max. axial displacement
	boie	Min.	Max.	D	D ₁	I ₁	lз	I ₇	I ₈	I ₁₀	111	I _{1 max.}	6 1/2"	7 1/2"	8"	10"	11 1/2"	14"	[mm]
48	1	20	48	68	100	50	41	50	20	13	48	up to 60	•	•	•	•			± 2
T 48	13	15	48	68	100	50	38	45	20	13	46	-	•	•	•	•			± 1
T 55	17	20	55	85	115	50	37	48	24	13	48	-	•	•	•	•			± 2
65 / T 65	21	30	65	96	132	55	45	54	27	21	51	up to 70			•	•	•		± 2
T 70	26	30	70	100	153	60	48	56	30	21	57	-				•			± 2
80 / T 80	31	35	80	124	170	90	78	87	30	21	87	-				•	•		± 2
100 / T 100	38	40	100	152	265	110	78	108	35	21	110	-					•	•	± 2
125 / T 125	45	50	125	192	250	140	113	140	50	28	97	-					•	•	± 2

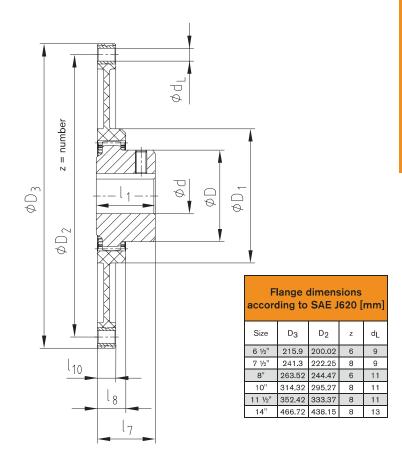
Special flange dimension see page 204 - 207 and on request

	Т	echnical	l data o	f BoWex® F	LE-PA -	Torques	/weight	s/mass	momen	its of ine	rtia/tor	sion sprir	ng stiffne	ss	
Size	To	orque T _K [N	m]	Weight/mass	Hub with		FLE-F	PA flanges a	according to	o SAE				pring stiffnes 0.4 [Nm/rad]	
Size	T _{KN}	T _{K max}	TKW	inertia J	max. bore	6 1/2"	7 1/2"	8"	10"	11 1/2"	14"	0.30 T _{KN}	0.50 T _{KN}	0.75 T _{KN}	1.00 T _{KN}
40		000	400	[kg]	0.79	0.32	0.43	0.51	0.64			05 403	DE 403	105 103	105 103
48	240	600	120	[kgm ²]	0.0007	0.0021	0.0035	0.0049	0.0085	_	_	35 x 10 ³	75 x 10 ³	105 x 10 ³	125 x 10 ³
T 48	300	750	150	[kg]	0.79	0.32	0.43	0.51	0.64			40 x 10 ³	86 x 10 ³	120 x 10 ³	143 x 10
1 48	300	750	150	[kgm ²]	0.0007	0.0021	0.0035	0.0049	0.0085	_	_	40 X 10°	86 X 10°	120 X 10°	143 X 10
T 55	450	1125	225	[kg]	1.12	0.34	0.62	0.45	0.646			90 x 10 ³	140 x 10 ³	170 x 10 ³	195 x 10 ⁵
1 55	450	1125	225	[kgm ²]	0.0016	0.0022	0.0053	0.0044	0.0086	_		90 X 10°	140 X 10°	170 X 10°	195 X 10
65	650	1600	325	[kg]	2.30	_	_	0.63	0.64	0.89	_	110 x 10 ³	160 x 10 ³	200 x 10 ³	230 x 10 ³
00	650	1600	320	[kgm ²]	0.0044	_	_	0.0064	0.0065	0.012	_	110 X 10-	160 X 10-	200 X 10°	230 X 10
T 65	800	2000	400	[kg]	2.40	_	_	0.63	0.64	0.89	_	130 x 10 ³	190 x 10 ³	240 x 10 ³	280 x 10 ³
1 00	800	2000	400	[kgm ²]	0.0044	_		0.0064	0.0065	0.012		130 x 10	190 x 10	240 X 10	200 1 10
T 70	1000	2500	500	[kg]	2.60	_	_	_	0.941	_	_	165 x 10 ³	315 x 10 ³	345 x 10 ³	368 x 10 ³
1 70	1000	2300	300	[kgm²]	0.0059				0.0132			103 x 10	313 x 10	343 X 10	300 x 10
80	1200	3000	600	[kg]	5.20	_	_	_	1.05	1.12	_	200 x 10 ³	410 x 10 ³	580 x 10 ³	700 x 10 ³
	1200	0000	000	[kgm ²]	0.0151				0.015	0.022		200 x 10	410 × 10	300 x 10	700 x 10
T 80	1500	3750	750	[kg]	5.20	_	_	_	1.05	1.12	_	240 x 10 ³	450 x 10 ³	638 x 10 ³	770 x 10 ³
	1000	0700	700	[kgm²]	0.0151				0.015	0.022		240 / 10	400 X 10	000 x 10	770 X 10
100	2050	5150	1025	[kg]	9.37	_	_	_	_	1.16	8.45	500 x 10 ³	700 x 10 ³	856 x 10 ³	950 x 10 ³
	2000	0100	1020	[kgm ²]	0.0401					0.021	0.234	000 x 10	700 X 10	000 x 10	000 X 10
T 100	2500	6250	1250	[kg]	9.37	_	_	_	_	1.16	8.45	600 x 10 ³	830 x 10 ³	960 x 10 ³	1070 x 10
		0200	.200	[kgm²]	0.0401					0.021	0.234	000 X 10	000 X 10	000 X 10	1070 % 10
125	4250	10700	2125	[kg]	19.73	_	_	_	_	2.09	9.85	1280 x 10 ³	1885 x 10 ³	2280 x 10 ³	2665 x 10
	1200	10700	2.25	[kgm²]	0.1359					0.043	0.306	00 x 10	. 300 % 10		_ 300 X 10
T 125	5300	13250	2650	[kg]	19.73	_	_	_	_	2.09	9.85	1600 x 10 ³	2250 x 10 ³	2700 x 10 ³	3200 x 10
. 120	0000	1 .0200	1 2000	[kgm ²]	0.1359		l			0.043	0.306	1.300 ^ 10	1	100 1.0	10200 x 10

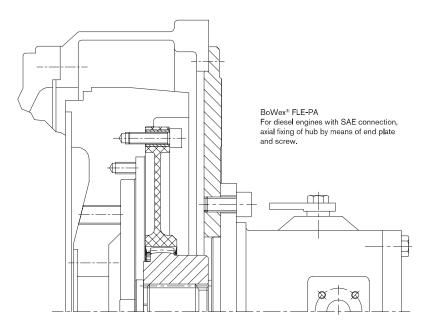
Mounting short version

Mounting long version



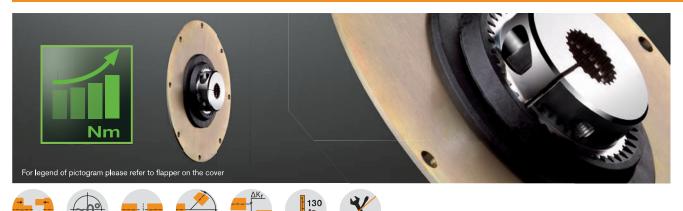


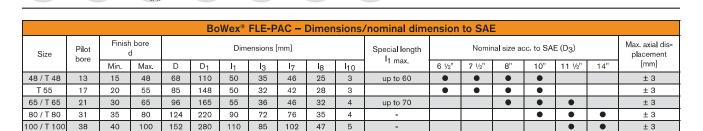
Example of installation



BoWex® FLE-PAC Torsionally rigid flange couplings

Axial plug-in, extremely short design, carbon-fibre reinforced material





28

125 Special flange dimensions deviating from SAE standard are also available.

192

250

140

113

140

50

125 / T 125

45

50

	Te	chnical	data of	BoWex® FI	LE-PAC -	Torque	s/weigh	ts/mass	mome	nts of in	ertia/toı	sion spri	ng stiffne	ess	
Size	Тс	orque T _K [N	lm]	Weight/mass moment of	Hub with		FLE-P.	AC flanges	according	to SAE				oring stiffnes 0.45 [Nm/rad	
	T _{KN}	T _{K max}	T _{KW}	inertia J	max. bore	6 1/2"	7 1/2"	8"	10"	11 1/2"	14"	0.30 T _{KN}	0.50 T _{KN}	0.75 T _{KN}	1.00 T _{KN}
48	300	600	150	[kg]	0.79	0.77	0.98	1.19	1.73			64 x 10 ³	95 x 10 ³	114 x 10 ³	132 x 10 ³
40	300	000	150	[kgm²]	0.0007	0.0049	0.0077	0.0109	0.0221			04 X 10	95 1 10	114 x 10	132 x 10
T 48	370	740	185	[kg]	0.79	0.77	0.98	1.19	1.73			91 x 10 ³	129 x 10 ³	155 x 10 ³	182 x 10 ³
1 40	370	740	100	[kgm ²]	0.0007	0.0049	0.0077	0.0109	0.0221			91 X 10	129 X 10	133 x 10	102 x 10
T 55	550	1100	275	[kg]	1.20	0.74	0.95	1.16	1.7			181 x 10 ³	258 x 10 ³	312 x 10 ³	358 x 10 ³
1 33	330	1100	275	[kgm ²]	0.0016	0.0049	0.0077	0.0109	0.0222			161 x 10	236 X 10	312 x 10	336 X 10
65	800	1600	400	[kg]	1.50	0.93	1.2	1.48	2.20	2.83		214 x 10 ³	329 x 10 ³	397 x 10 ³	451 x 10 ³
- 00	000	1000	400	[kgm²]	0.0027	0.0065	0.0101	0.0145	0.0294	0.0467		214 1 10	328 X 10	397 X 10	451 x 10
T 65	1000	2000	500	[kg]	1.60	0.93	1.2	1.48	2.20	2.83		256 x 10 ³	381 x 10 ³	461 x 10 ³	516 x 10 ³
1 00	1000	2000	000	[kgm²]	0.0035	0.0065	0.0101	0.0145	0.0294	0.0467		200 x 10	301 x 10	401 X 10	010 x 10
80	1500	3000	750	[kg]	5.20				2.27	2.90	5.20	486 x 10 ³	713 x 10 ³	923 v 103	1156 x 10 ³
- 00	1000	0000	700	[kgm²]	0.0151				0.0312	0.0485	0.1462	400 x 10	710 x 10	020 X 10	1100 x 10
T 80	1850	3700	925	[kg]	5.20				2.27	2.90	5.20	556 x 10 ³	815 x 10 ³	1065 x 10 ³	1329 v 10 ³
1 00	1000	0700	320	[kgm²]	0.0151				0.0312	0.0485	0.1462	000 x 10	010 x 10	1000 x 10	1023 x 10
100	2550	5100	1275	[kg]	9.37					3.35	6.22	679 x 10 ³	929 v 103	1218 x 10 ³	1457 v 10 ³
100	2000	0100	1270	[kgm²]	0.0401					0.0606	0.1828	070 x 10	020 X 10	1210 x 10	1407 X 10
T 100	3100	6200	1550	[kg]	9.37					3.35	6.22	767 x 10 ³	1030 x 103	1343 x 10 ³	1594 v 10 ³
1 100	0100	0200	1000	[kgm²]	0.0401					0.0606	0.1828	707 × 10	1000 % 10	1010 % 10	1001 % 10
125	5350	10700	2675	[kg]	19.73					2.09	9.85	1538 x 10 ³	2098 x 10 ³	2528 x 10 ³	2980 x 10 ³
				[kgm²]	0.1359					0.043	0.306		_300 x 10		_300 x 10
T 125	6600	13200	3300	[kg]	19.73					2.09	9.85	1887 x 10 ³	2495 x 10 ³	3035 x 10 ³	3629 x 10 ³
. 120	2300	,5200	2300	[kgm²]	0.1359					0.043	0.306	.00. x 10	2 .00 x 10	3030 X 10	5525 X 10

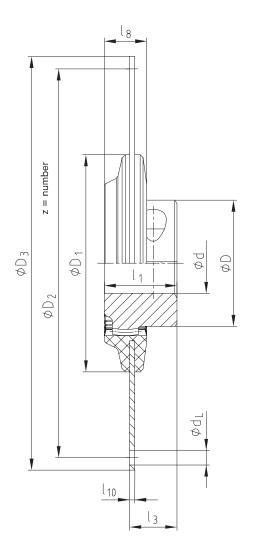
⁼ Years of experience with applications at customer sites and additional test series in the KTR test field in Rheine enabled us to determine potentials allowing for an increase of the rated torques with some sizes of this series.

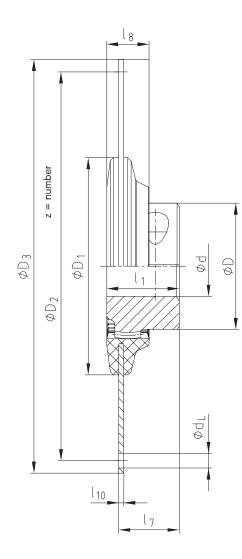
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± 3

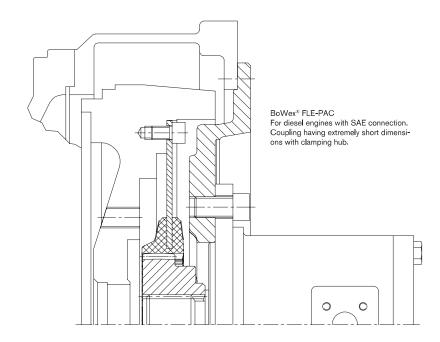
Mounting short version

Mounting long version





Flange dimensions according to SAE J620 [mm]														
Size D ₃ D ₂ z d _L														
6 1/2"	215.9	200.02	6	9										
7 1/2"	241.3	222.25	8	9										
8"	263.52	244.47	6	11										
10"	314.32	295.27	8	11										
11 ½"	352.42	333.37	8	11										
14" 466.72 438.15 8 14														



BoWex® FLE-PA / FLE-PAC Torsionally rigid flange couplings

Selection according to SAE standard



Determination of coupling

Determination of coupling size Table 1

Connection dimension of coupling Table 2

Hub design/mounting length Table 3:

SAE pump mounting flange

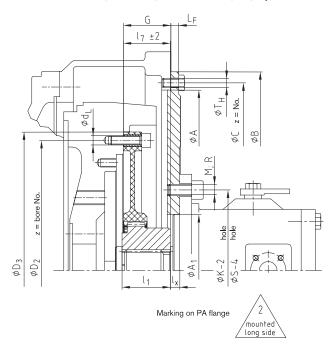
Flange size according to SAE 617 Table 4

Connection flange of hydraulic pump Table 5

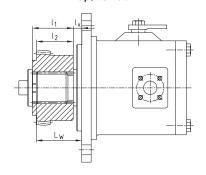
Short mounting version of coupling (I₃)

Marking on PA flange Marking on PA flange

Long mounting version of coupling (I₇)



Spline hub

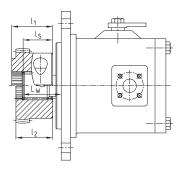


Determination of	of mounting length I ₃ or I ₇
SAE shaft	13 / I7 = G + LF - LW + IS
DIN shaft	I ₃ / I ₇ = G + L _F - I _X

Mounting instructions:

The flange can be fastened to the engine flywheel by means of socket head cap screws according to DIN EN ISO 4762 quality 8.8 or by hexagon head screws quality 8.8. We recommend screws are loctited in position.

Clamping hub



If axial fixing of the hub by means of an end plate and a screw is not possible for a pump shaft with involute spline, we would recommend to use a clamping hub.

Screw tightening torque of FLE-PA flange on the flywheel

,	VIICCI
M8	25 Nm
M10	49 Nm
M12	86 Nm

	of sp	w tightening bline clamping DIN EN ISO 47	g hubs
	42/48	M10	49 Nm
Γ	T55/65/T70	M12	86 Nm
	80/100/125	M16	210 Nm

BoWex® FLE-PA / FLE-PAC Torsionally rigid flange couplings

Mounting dimensions according to SAE standard

		1. Se	lection	of co	upling	for d	liesel	engin	е																	
X	Diesel pov	-	Coupling size	Fly	wheel t SAE	0	Pump n	nounting	g flange	Driving shaft of pump																
	kW	HP				à		L	F	P P																
				6 1/2"	30.15	1.19"																				
	up to	up to	48	7 1/2"	30.15	1.19"	Щ			<u> </u>																
	30 kW	40 PS	40 PS	40 PS	FLE-PA	8"	62	2.44"	SAE d 4	9.5	0.375"	3 5480														
				10"	54	2.12"	ns to S 3 and																			
	4-		4	unto	4	4		4	4			4	4	4	4	unto	un to	un to 6	C.F.	8"	62	2.44"	sion			Table desig 8 /DIN
	up to	up to	65	10"	54	2.12"	nensic tables	9.5	0.375"	See hub J 49																
	90 kW	120 PS	FLE-PA	11 1/2"	39.6	1.56"	For dimensions to see tables 3 and	12.7	0.5"	S h SAEJ																
	up to	up to	80	4 4 1/ !!	39.6	1.56"	For	12.7	0.5"	8/																
	180 kW	240 PS	FLE-PA	11 1/2"	39.6	1.00		12.7	0.5																	

2.	Dimensions	of coupling	flange accor	ding to SAE	J620 [mm]
\otimes	Nominal size	D ₃	D ₂	z = number	dL
	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	14

4. Housing dimensions according to SAE 617 [mm]														
\otimes	SAE size	Α	В	С	Z	Т	Н							
	SAE-1 511.18 552 530.2 12 M10 ³ / ₈ "													
	SAE-2	447.68	489	466.7	12	M10	3/8"							
	SAE-3	409.58	451	428.6	12	M10	3/8"							
	SAE-4	361.95	403	381.0	12	M10	3/8"							
	SAE-5	314.33	356	333.4	8	M10	3/8"							

	5. Mounting flange for hydraulic pump acc. to SAE [mm]														
\otimes	SAE size SAE flange with 2 holes SAE flange with 4 holes														
	SAE size A ₁ K-2 M Z A ₁ S-4 R Z														
	Α	82.55	106.4	M10	3/8"	2	82.55	104.6	M10	3/8"	4				
	В	101.6	146.0	M12	1/2"	2	101.6	127.0	M12	1/2"	4				
	С	127.0	181.0	M16	5/8"	2	127.0	162.0	M12	1/2"	4				
D 152.4 228.6 M16 5/8" 2 152.4 228.6 M16 5/8"															
	Е	-	-	-	-	-	165.1	317.5	M20	3/4"	4				

				. Select	ion of c	oupling	hubs -	Determ	ination	of mou	nting lei	ngth Ig	or I ₇		
			ng						Mounti	ing length o	of coupling	lg or l7			
BoWex® coupling	Pump shaft to SAE J 498 and	Spline hub	Spline clamping hub	Dimensi	ons of cou [mm]	pling hub		je size nd 7 ¹/₂"		je size 3"		e size 0"		ge size ¹/2"	Code to order coupling hub
size	DIN 5480	Splii	pline	11	la.	lo.	K I3	L I ₇	K I3	L I ₇	K I3	L I ₇	K I ₃	L I ₇	Specify coupling size
42	SAE-16/32 DP		x	42	I ₂	1 _S	33	42	13	17	13	17	13	17	P559101
42	PI-S 3/4"			42	_	33	33	42							F339101
	z = 11														
42	SAE-16/32 DP		x	42	_	-	33	42							P567101
42	PB-S 7/8"		<u> </u>	42	_	_	33	42							1307101
	z = 13														
42	SAE-16/32 DP		x	42	-	27	33	42							P660201
42	PB-BS 1"		, x	42	_	21	33	42							F000201
	z = 15														
48	SAE-16/32 DP		×	50	_	45	41	50		50	41	50			P663301
65	PA-S 1 3/8"		x	50	-	48	41	30		54	45	54	41		P663301
00	z = 21		^	30		40				54	40	04	41		1 000001
65	SAE-12/24 DP		X	55	_	44				54	45	54	41		P656201
00	PC-S 1 1/4"		^	30	_	44				34	45	34	41		1 000201
	z = 14														
65	SAE-16/32 DP		x	-	49	45						53	41		P664301
	PD-S 1 1/2"		_^		10	10									1 004001
	z = 23														
80	SAE-16/32 DP		х	55	_	_							33	44	P565402
	PE-S 1 3/4"		_ ^										00	1	1 000 102
	z = 27														
42		х		42	-	-	33	42							P000205
42	25 x 1.25 x 18		х	42	-	-	33	42							P500202
	DIN 5480														
42			×	42	-	-	33	42							P500203
48	30 x 2 x 14	х		50	-	-	41	50							P000206
48	D I N 5480		х	50	-	-	41	50		50		50			P500203
48		х		46	-	-	37	46							P000303
65	35 x 2 x 16	х		55	-	-						54	39		P000303
65	DIN 5480		х	60	-	-			50	59	50	59	39		P500301
65	40 0 40	х		55	-	-						54	39		P000304
65	40 x 2 x 18		х	55	-	-				54	45	54	39		P500302
	D I N 5480														
65	45 0 04	х		-	64	-			60	69	60	69	39		P000403
65	45 x 2 x 21		х	55	-	-				54	45	54	39		P500401
	DIN 5480														
80	50 x 2 x 24		х	55	-	-							37	42	P500405
	DIN 5480														
	DIN 5460														

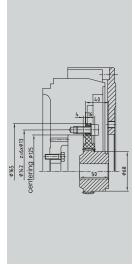
Ordering examp	le: Coupling FLE-P.	A/FLE-PAC	SAI	E pump mounting flange
BoWex® 48 FLE-PA	7 1/2"	P663301	SAE-4	B-2L
Coupling size	SAE connection of	Code of coupling	Pump mounting flange	Pump flange to SAE 2 holes/4 holes
Coupling size	coupling	hub	for engine housing	standard metric fastening thread
Table 1	Table 2	Table 3	Table 4	Table 5

BoWex® FLE-PA

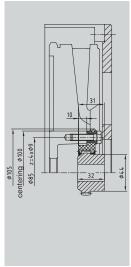
Torsionally rigid flange couplings

Special flange programme, deviations from the SAE standard

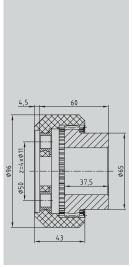
Fitting to diesel engines: Hatz



BoWex® 48 FLE-PA, Ø165 Hatz 2L/3L/4L41C 2M/3M/4M41 4M42,4L42C



BoWex® 28 FLE-PA, Ø105 Hatz 1D81 / 1D90

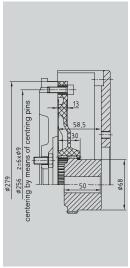


BoWex® 48 FLE-PA, Ø96 Hatz Z788 / Z789 / Z790

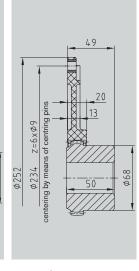
Fitting to diesel engines: VW Mitsubishi

Coupling size

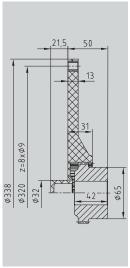
Engine type



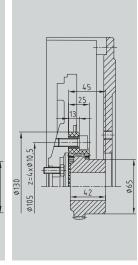
BoWex® 48 FLE-PA, Ø279 VW 028.B / M344



BoWex® 48 FLE-PA, Ø252 VW 062.2 / 068.5 / 6 / A / D



BoWex® 48 FLE-PA Mitsubishi Ø338-32

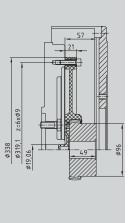


BoWex® 48 FLE-PA, Ø130 Mitsubishi Series L / Series K

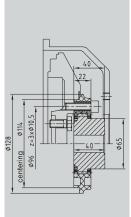
Fitting to diesel engines: Perkins Lombardini

Coupling size

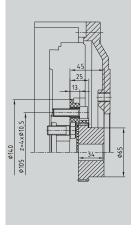
Engine type



BoWex® 65 FLE-PA, Ø338 Perkins 1104C-44T Flywheel No. D0014



BoWex® 48 FLE-PA, Ø128 Lombardini FOCS series

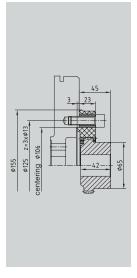


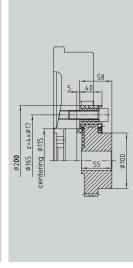
BoWex® 48 FLE-PA, Ø140 Lombardini

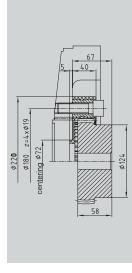
BoWex® FLE-PA Torsionally rigid flange couplings

Special flange programme, deviations from the SAE standard

Fitting to diesel engines: Perkins Isuzu Cummins







Coupling size

Engine type

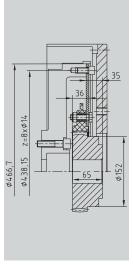
BoWex® 48 FLE-PA, Ø155 3 holes, Ø125

BoWex[®] 65 FLE-PA, Ø178 3 holes, Ø140

BoWex® 70 FLE-PA, Ø200 4 holes, Ø165

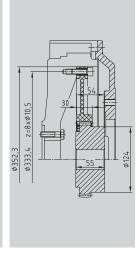
BoWex® 80 FLE-PA, Ø220 4 holes, Ø180

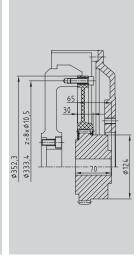
Fitting to diesel engines: Caterpillar Daimler Cummins John-Deere



BoWex® T100 FLE-PA, 14" BoWex® T65 FLE-PA

72 32 5680 060 0721-2 78





Coupling size

Engine type

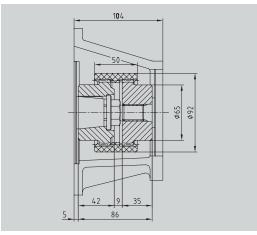
BoWex® T100 FLE-PA, 14 Caterpillar C 10 / C 12

BoWex® T65 FLE-PA, Ø395 Daimler OM904

BoWex® 80 FLE-PA, 11 1/2" Cummins QSX/QSB

BoWex[®] 80 FLE-PA 11 1/2" John Deere

Fitting to shaft motors: Hatz Honda Briggs-Stratton Yanmar Kohler Robin



φ190 φ165,1 z=4xφ11 φ146,05

BoWex* shaft coupling type M28 and M32 Housing connection according to SAE J609A

Coupling size

BoWex® M42 Hatz 2G30

Engine type

BoWex® FLE-PA

Torsionally rigid flange couplings

Flange couplings and pump connection housings for KUBOTA engines

KUBOTA

Super MINI series

Z-400

Z-442-B

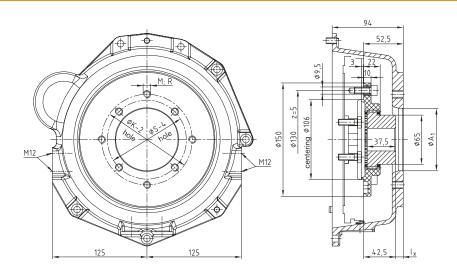
Z-482-B

D-600

D-662-B

D-902-B

V-800



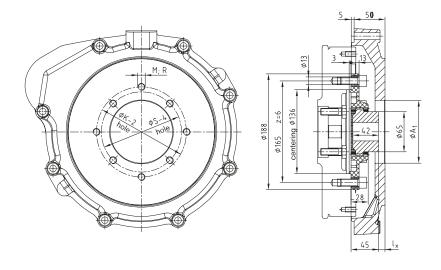
BoWex® 48 FLE-PA Ø 150 / pump connection housings

KUBOTA Super 3 series

D 1403/1703 Flywheel No. 190027991

V 1903/2203 Flywheel No. 190002369

V 2003-T



BoWex® 48 FLE-PA Ø 188 / pump connection housings

KUBOTA Super 5 series

D 905

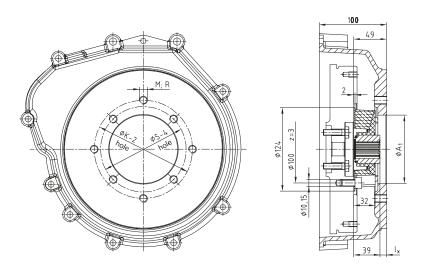
D 1005

D 1105 D 1105-T

V 1205

V 1305

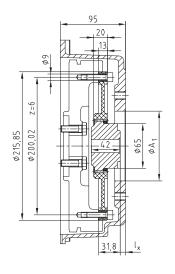
V 1505



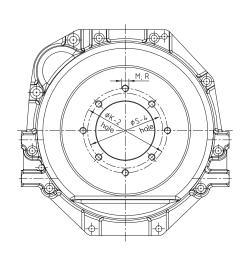
MONOLASTIC® 28 Ø 124 / pump connection housings

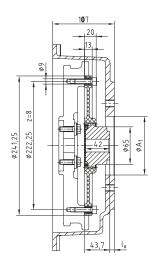
Torsionally rigid flange couplings

Flange couplings and pump connection housings for Perkins engines

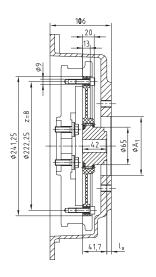


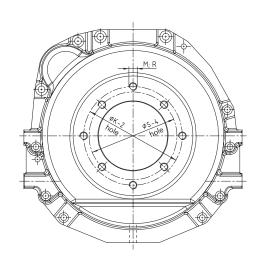
BoWex® FLE-PA

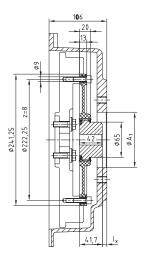




Perkins 403D - 10/11 Perkins 403D - 13/15

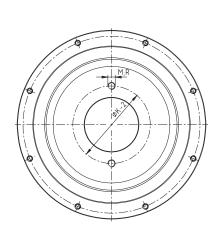


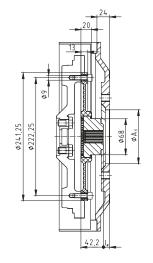




Perkins 404D - 20 Perkins 404D - 22

Other selections on request for Yanmar Mitsubishi etc.



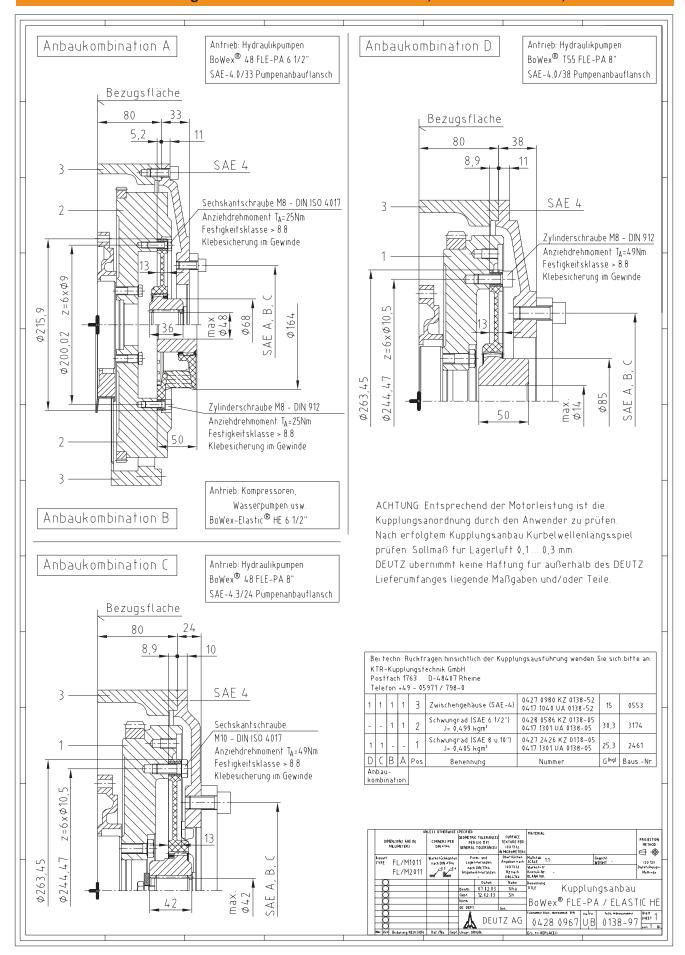


Mitsubishi SL series

Yanmar TNV series

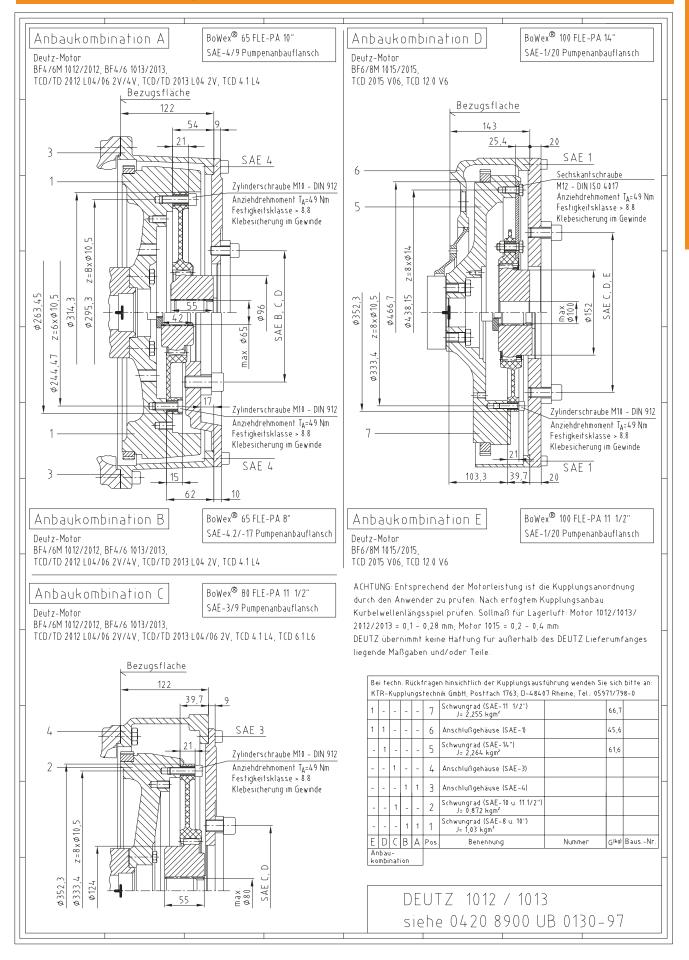
BoWex® FLE-PA Torsionally rigid flange couplings

Selection of DEUTZ engines FL/M 1011 and FL/M 2011, TCD/TD/D 2.9 L4, TDC/T 3.6 L



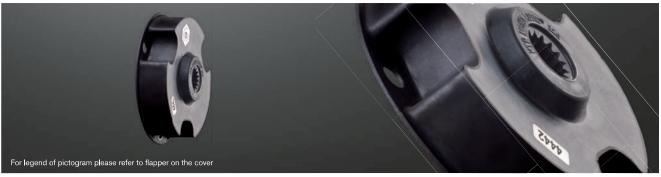
BoWex® FLE-PA Torsionally rigid flange couplings

Selection of DEUTZ engines BFM 1012/1013/2012/2013/1015



One-piece, flexible flange couplings

Type with 3 holes (EP 0853203/U.S. Patent 6,117,017)











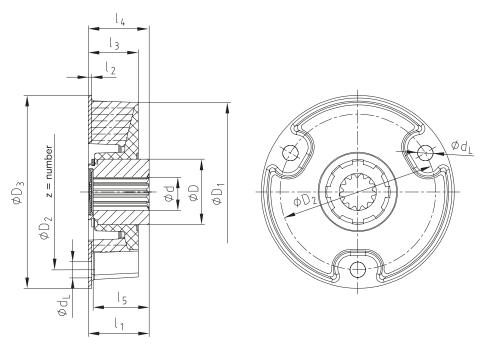












						N	IONOLA	\STIC®								
Size	Elastomer hardness	7	Torque [Nm	n]						Dimension	ons [mm]					
Size	[Shore A]	T_{KN}	T _{K max}	T _{KW}	d	D	D ₁	D ₂	Z	dL	D ₃	I ₁	l ₂	l ₃	14	l ₅
22	65	40	100	20	20	34	93	80	3	8.10	100	33	1.5	32	34	30
28	65	70	175	35	25	42	115	100	3	10.10	124	40	2	32	40	38
20	70	100	250	50	25	42	115	100	3	10.10	124	40	2	32	40	30
32	65	160	400	80	32	50	140	125	3	12.10	150	42	2	42	43	38
32	70	225	562	112	32	50	140	125	3	12.10	150	42	2	42	43	36
50-140	70	260	650	130	32	50	167	140	3	14.10	175	46	3	35	46	43
50-165	70	300	750	150	32	50	175	165	3	16.15	200	46	3	35	46	43
50-170	70	300	750	150	32	50	175	170	3	16.15	200	46	3	35	46	43
60-165	70	400	1000	200	48	68	191	165	3	16.15	205	50	3	40	55	46

				Tec	chnical data				
	EL	C _{dvn}	Perm. damping	Max. displacement	Perm. angular	Radial spring	Mass moment	of inertia [kgm²]	Max. perm.
Size	Elastomer hardness [Shore A]	C _{dyn} . with 60 °C [Nm/rad]	power with 60 °C PKW [W]	with 2200 rpm ΔK _r [mm]	displacement with 2200 rpm ΔK _w [°]	stiffness C _r [N/mm]	JA	JL	operating speed n _{max} . [rpm]
22	65	600	10	0.6		200	0.00017	0.00010	6000
28	65	900	15	0.6		300	0.00054	0.00033	6000
26	8 70 1300 15		15	0.5		400	0.00054	0.00033	8000
32	65	1800	25	0.6		400	0.00120	0.00081	6000
32	70	2400	25	0.5	1	500	0.00120	0.00081	8000
50-140		4200	35	0.5		1365	0.00210	0.00130	6000
50-165	70	5600	40	0.5		1550	0.00250	0.00130	6000
50-170		3600	40	0.5		1550	0.00250	0.00130	6000
60-165	70	7800	40	0.5		1500	0.00599	0.00358	6000

Type SAE (EP 0853203/U.S. Patent 6,117,017)











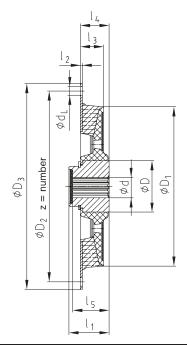












	•	dimensi SAE J6		ım]									
Size	½" 215.9 200.02 6												
6 1/2"	215.9	200.02	6	9									
7 1/2"	241.3	222.25	8	9									
8"	263.52	244.47	6	11									
10"	314.32	295.27	8	11									
11 1/2"	352.42	333.37	8	11									

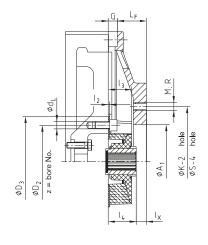
							MONO	LASTIC	®								
Size	Elastomer hardness	1	Forque [Nm	n]				Dimensi	ons [mm]				MONO	DLASTIC®	flanges a	ccording t	to SAE
Size	[Shore A]	TKN	T _{K max}	TKW	d	D	D ₁	11	l ₂	lз	14	15	6 1/2"	7 1/2"	8"	10"	11 1/2"
30	65	200	400	100	25	40	120	39	0	21	30	36	_	_			
30	70	250	500	125	20	42 50	120	39	2	21	30	30	^	^			
50	65	350	700	175	32	50	167	42	0	24	30	38	_	_	_	_	
50	70	450	900	225	32	50	167	42	2	24	30	30	^	^	^	^	
G50	70	600	1200	300	32	50	178	42	2	24	36	38		Х	Х	Х	
65	65	750	1500	375	48	68	200	45	3	32	45	42				V	_
65	70	1000	2000	500	40	00	200	40	3	32	40	42				^	^
75	65	1500	3000	750	60	90	265	58	3	35	50	54				V	V
/5	70	1850	3700	925	60	90	205	58	3	35	50	54				^	^

= Years of experience with applications at customer sites and additional test series in the KTR test field in Rheine enabled us to determine potentials allowing for an increase of the rated torques with some sizes of this series.

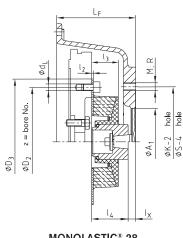
				Te	chnical data					
Size	Elastomer hardness [Shore A]	C _{dyn.} with 60 °C [Nm/rad]	Perm. damping power with 60 °C PKW [W]	Max. displacement with 2200 rpm ΔK _r [mm]	Perm. angular displacement with 2200 rpm ΔK _W [°]	Radial spring stiffness C _r [N/mm]		Mass moment	of inertia [kgm²]	Max. perm. operating speed nmax. [rpm]
30	65	3750	25	0.5	1	1150	6.5"	0.0038	0.00030	6000
30	70	4875	25	0.5	•	1500	7.5"	0.0057	0.00030	8000
50	65	9000	25	0.5	1	1300	8"	0.0078	0.00120	6000
30	70 12000 35		0.5	'	1700	10"	0.0153	0.00120	0000	
							7 1/2"	0.0060		
G50	70	17500	40	0.5	1	1910	8"	0.0080	0.00120	6000
							10"	0.0162		
65	65	14000	45	0.5	1	1900	10"	0.0238	0.00380	6000
00	70	18000	40	0.5	'	2450	11.5"	0.0368	0.00380	0000
75	65	34000	80	0.5	1	1850	10"	0.0272	0.01450	6000
75	70	42000	30	0.5	_	2400	11.5"	0.0402	0.01480	5500

One-piece, flexible flange couplings

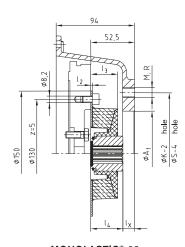
Examples of installation for type with 3 holes (EP 0853203/U.S. Patent 6,117,017)



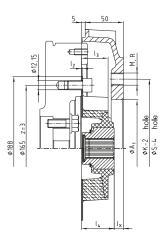
MONOLASTIC® 28 with spline shaft



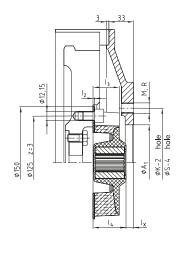
MONOLASTIC® 28 with taper shaft



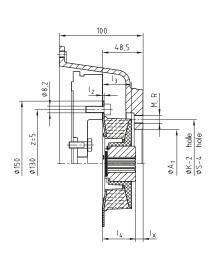
MONOLASTIC® 28 KUBOTA - Mini



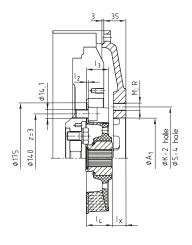
MONOLASTIC® 32 - 188 KUBOTA Super Three Series



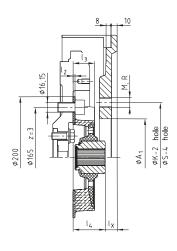
MONOLASTIC® 32 S



MONOLASTIC® 28 KUBOTA Super Mini



MONOLASTIC® 50 - 140

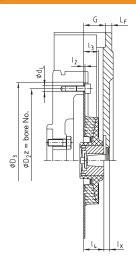


MONOLASTIC® 50 - 165

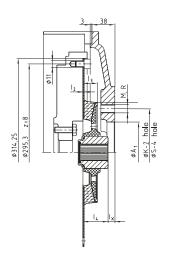
One-piece, flexible flange couplings

Examples of installation for SAE type (EP 0853203/U.S. Patent 6,117,017)

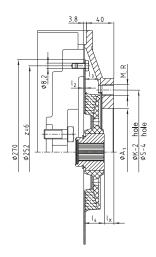
MONOLASTIC® 30 with spline shaft



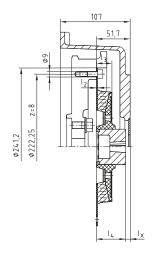
MONOLASTIC® 30 with taper shaft



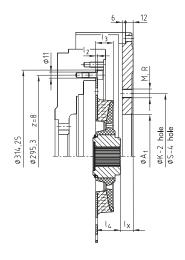
MONOLASTIC® 50 - 10"



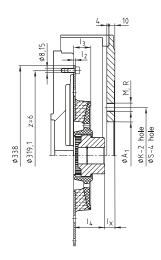
MONOLASTIC® 50 - 270 KUBOTA engine D1803, V2403, V2403T



MONOLASTIC® 50 Perkins engine 403-13/403-15



MONOLASTIC® 65 - 10"



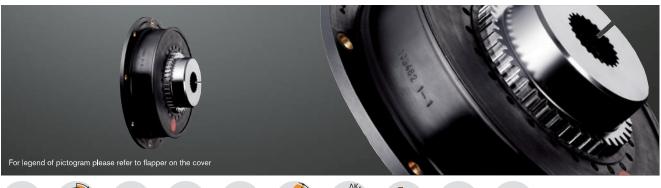
MONOLASTIC® 65 / T48

MONOLASTIC®

BoWex® FLE-PA/-PAC

BoWex-ELASTIC® HE1 - HE4 Highly flexible flange couplings

Axial plug-in, available in different kinds of hardness























									В	oWex-	ELA:	STIC	® Ty	ре Н	E1 -	· HE4	4								
																				Тур	e HE1 / F	HE2	Тур	e HE3 / I	HE4
Size	Bore o	d [mm]	Flang	e conn	ection	acc. to	SAE -	J620				D	imensi	ons (m	nm]					Weight with max.	Mass mo inertia w bore [ith max.	Weight with max.	Mass me inertia v bore	vith max.
	Pilot bored	Max.	6 1/2"	7 1/2"	8"	10"	11 1/2"	14"	l3 HE1/ HE2	^l 3 HE3/ HE4	D5	l 2	D4	D	11	LHE1	LHE2	LHE3	LHE4	D . 1	JA	JL	bore [kg]	JA	JL
42 HE		42	•							2	180	33	145	65	42	70	50	55	40	1.8	0.0074	0.0016	1.8	0.0071	0.0021
42 NE	-	42			•				4	2	180	33	145	65	42	70	50	55	40	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
65 HE	21	65				•			5		244	55	205	96	55	85	62			4.9	0.0424	0.0069			
05 HE	21	05					•		3		244	55	200	90	55	65	02			5.7	0.0647	0.0069			
					•																			-	
G 65 HE						•			-	3	-	45	205	96	55	-	-	73	50	-	-	-	4.1		0.0075
							•																4.6		0.0075
					•																		3.8		0.0093
GG 65 HE						•			-	3	-	48	220	96	55	-	-	73	50	-	-	-	4.4	0.0294	
							•																4.9		0.0093
80 HE	31	80				•			-	4	316	56	265	124	90	126	74	112	60	8.1	0.0239	0.0307	9.1	0.0414	0.0305
OOTIL	01						•		6	-	0.0	00	200	12-7	00	132	80	112	- 00	10.2	0.0765	0.0307	-	-	-
G 80 HE	31	80					•		-	4	356	66	300	124	90	136	80	122	70	9.7	0.0426	0.0471	11.1	0.0713	0.0472
	01							•	6	·						142	84			14.7	0.2851	0.0471	-	-	-
GG 80 HE							•	_	-	4	-	71	302	124	90	-	-	130	80	-	-	-	11.9	0.0768	
100 HE	38	100						•	-	4	-	80	350	152	110	142	90	150	82	-	-	-	18.3	0.2028	0.1104

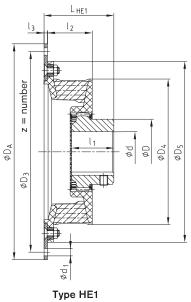
Other flange connections on request

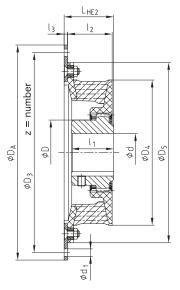
							Techi	nical data				
Size	Shore		Torque [Nm]	with 10 Hz		damping P _{KW} [W]		Perm. operating speed n _{max.} [rpm]	Dynamic torsion spring stiffness	Relative damping ψ	Resonance factor V _R ≈ 2 • π / ψ	Radial spring stiff- ness C _r [N/mm]
		TKN	TK max	T _{KW}	60 °C	80 °C	90 °C	speed fimax, [rpifi]	C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

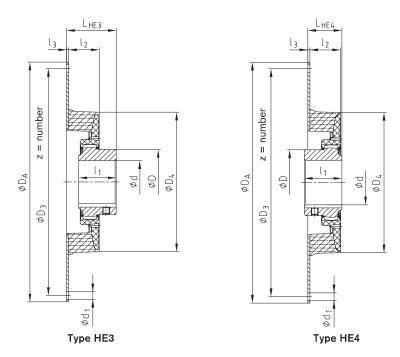
Out to	BoWex-ELASTIC® 42	HE1	40	8	70	U
Ordering example:	Coupling size	Туре	Elastomer hardness	Flange Ø D _A according to SAE or special	Mounting length LHE	Unbored or with finish bore





acco	_	dimension SAE J6:		m]											
Nominal size	size DA D3 z d ₁														
6 1/2"	6 1/2" 215.90 200.02 6 9														
7 1/2"															
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 HE2



						Disp	laceme	ents								
Size			42 HE			48 HE			65 HE G65 HE GG65 HE			80 HE G80 HE GG80 HE	į		100 HE	
Elastomer hardness [Sho	ore 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
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
ΔKr [mm]	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	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
ΔKw [°]	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).

BoWex-ELASTIC® HE3 / HE4 / HE-D Highly flexible flange couplings

Axial plug-in, available in different kinds of hardness























						Bol	Wex-	ELAS	STIC®	Туре	HE3	, HE4	and	HE-D)				
Size	Bore o	l [mm]	FI	lange c	onnect	ion acc	o. to SA	∖E - J6	20			Dime	ensions	[mm]			Weight with		f inertia with max. [kgm²]
Size	Pilot bored	Max.	14"	16"	18"	21"	24"	Ø800	Ø885	l ₃	l ₂	D ₄	D	l ₁	LНЕЗ	LHE4	max. bore [kg]	JA	JL
125 HE	45	125	•							6	92	416	192	140	186	103	33.1	0.3142	0.2750
120 HE	40	125		•						0	92	416	192	140	192	109	34.8	0.4231	0.2750
G125 HE	45	125		•						6	89	440	192	140	179	91	36.6	0.4634	0.3264
GIZOTIL	40	120			•					_	03	770	132	140	173	91	39.5	0.6812	0.3264
150 HE	44	160			•					6	140	470	225	150	205	160	46.8	0.7277	0.5414
TOOTIL	7.7					•				Ů	140	470	220	100	200	100	51.5	1.2120	0.5414
150 HE-D	44	160			•					_	286	470	225	275	291	_	113	3.0045	1.0738
1001122					_	•								2.0	201		155	6.4399	1.0738
G150 HE	44	160			•					6	140	504	225	150	205	160	51.9	0.8164	0.6500
						•				-							56.6	1.3007	0.6500
G150 HE-D	44	160			•	•				-	286	504	225	275	291	-	123 165	3.1820	1.291
																	76.8	6.6173 1.4880	1.291 1.2952
200 HE	46	180	-							6	149	568	250	175	240	160	76.8 81.2	2.0390	1.2952
						•											228	11.80	2.4672
200 HE-D	46	180					•			-	325	568	250	298	310	-	216	10.66	2.4672
							•										81.6	1.6272	1.5409
G200 HE	46	180								6	149	600	250	175	240	160	86.0	2.1782	1.5409
						•											238	12.00	3.0387
G200 HE-D	46	180				_	•			-	325	600	250	298	310	-	230	10.92	3.0387
240 HE	80	240						•		8	172	772	326	200	270	205	138	4.2414	4.0410
275 HE	80	275						Ť	•	10	185	810	372	240	312	215	206	7.3696	7.6845

							Techni	ical da	ta				
			Torque	e [Nm]	T		damping PKW [W		Perm. operating	Dynamic torsion		Resonance	Radial spring
Size	Shore	T _{KN} [Nm]	T _{K max} 10,000 LW [Nm]	T _{K max} 50,000 LW [Nm]	T _{KW} [Nm]	60 °C 80 °C 90 °C		speed n _{max} . [rpm]	spring stiffness C _{dyn.} [Nm/rad] 60 °C	Relative dam- ping ψ	factor V _R ≈ 2 • π / ψ	stiffness C _r [N/mm]	
405 115	T50 Sh	4300	12900	6450	1075	004	400	00	0000	30000	0.8	7.9	617
125 HE	T70 Sh	7500	22500	11250	1875	221	133	88	2300	54000	1.2	5.2	2434
G125 HE	T50 Sh	6100	18300	9150	1525	240	144	96	2250	51000	0.8	7.9	560
G125 HE	T70 Sh	9750	29250	14625	2438	240	144	96	2250	98000	1.2	5.2	1915
150 HE	T50 Sh	8000	24000	12000	2000	262	157	105	2200	67500	0.8	7.9	714
150 HE	T70 Sh	14000	42000	21000	3500	262	157	105	2200	140000	1.2	5.2	2500
150 HE-D	T50 Sh	16000	48000	24000	4000	524	314	210	2200	134000	0.8	7.9	1428
130 HE-D	T70 Sh	28000	84000	42000	7000	524	314	210	2200	279000	1.2	5.2	5000
G150 HE	T50 Sh	10000	30000	15000	2500	070	278 167		2100	85000	0.8	7.9	1485
GISONE	T70 Sh	18000	54000	27000	4500	270	107	111	2100	160000	1.2	5.2	5874
G150 HE-D	T50 Sh	20000	60000	30000	5000	556	334	222	2100	170000	0.8	7.9	2970
G150 HE-D	T70 Sh	36000	108000	54000	9000	556	334	222	2100	320000	1.2	5.2	11748
200 HE	T50 Sh	14500	43500	21750	3625	308	185	123	1900	119000	0.8	7.9	1720
200 HE	T70 Sh	25000	75000	37500	6250	300	100	123	1900	241000	1.2	5.2	6769
200 HE-D	T50 Sh	29000	87000	43500	7250	616	370	246	1900	238000	0.8	7.9	3440
200 HE-D	T70 Sh	50000	150000	75000	12500	010	370	240	1900	482000	1.2	5.2	13538
G200 HE	T50 Sh	17500	52500	26250	4375	324	194	130	1800	139000	0.8	7.9	1952
GZOOTIL	T70 Sh	30000	90000	45000	7500	324	154	130	1000	281500	1.2	5.2	7708
G200 HE-D	T50 Sh	35000	105000	52500	8750	648	388	260	1800	278000	8.0	7.9	3904
G200 HE-D	170 Sh	60000	180000	90000	15000	040	300	200	1600	563000	1.2	5.2	15416
240 HE	T50 Sh	29000	87000	43500	7250	372	223	149	1500	259000	8.0	7.9	2326
240 FIE	T70 Sh	49000	147000	73500	12250	3/2	223	148	1300	521000	1.2	5.2	9160
275 HE	T50 Sh	42000	126000	63000	10500	410	246	164	1500	375000	0.8	7.9	2950
2/3 HE	T70 Sh	70000	210000	105000	17500	410	240	104	1300	758000	1.2	5.2	11785

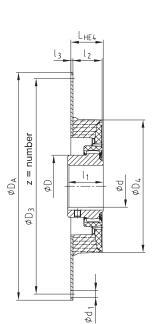
⁼ Years of experience with applications at customer sites and additional test series in the KTR test field in Rheine enabled us to determine potentials allowing for an increase of the rated torques with some sizes of this series.

Ordering
example:

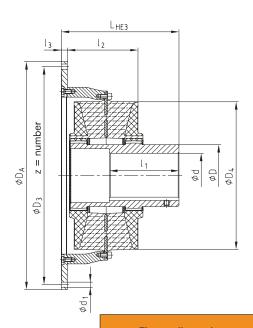
BoWex-ELASTIC® 80	HE3	40	10	112	U
Coupling size	Туре	Elastomer hardness	Flange Ø D _A according to SAE or special	Mounting length LHE	Unbored or with finish bore

 $\mathsf{L}_{\mathsf{HE3}}$ z = numberφD₄ øD₃

Type HE3



Type HE4



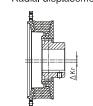
Type D

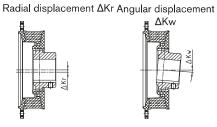
acco	according to SAE J620 [mm]														
Nominal size	DA	D3	z	d ₁											
6 1/2"	215.90	200.02	6	9											
7 1/2"	241.30	222.25	8	9											
8"	263.52	244.47	6	11											
10"	314.32	295.27	8	11											
11 ½"	352.42	333.37	8	11											
14"	466.72	438.15	8	13											
16"	517.50	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											
Ø800	800	770	32	17											
Ø885	885	855	36	17											

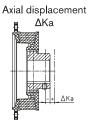
Displacements

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

$$\Delta Kr_{perm.} = \Delta Kr \bullet St \bullet \sqrt{1500 / nx}$$







						Dis	placem	ents								
Size			125 HE G125 HE			150 HE G150 HE			200 HE G200 HE			240 HE			275 HE	
Elastomer hardness [Sh	ore A]	T40 Sh	T50 Sh	T70 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	2.5	2.3	1.1	2.8	2.5	1.3	3.0	2.7	1.5	3.2	2.9	1.6	3.4	3.1	1.8
ΔKI [IIIII]	max. 1)	7.5	6.9	3.3	8.0	7.5	4.0	8.5	8.0	4.5	9.0	8.5	5.0	9.5	9.0	5.5
Perm. angular displacement	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
ΔKw [°]	n=3000 rpm	0.5	0.4	0.25	_	_	_	_	_	ĺ	_	_	_	_	_	_
Perm. angular displacement ΔKw [mm]	max. 1)		1.5			1.5			1.5			1.5			1.5	
Perm. axial displacement Δ	Ka [mm]		± 3			± 4			± 4			± 4			± 4	

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).

BoWex-ELASTIC® HE-ZS and HEW Highly flexible flange couplings

With drop-out center part for pump drives, highly flexible shaft-to-shaft coupling





















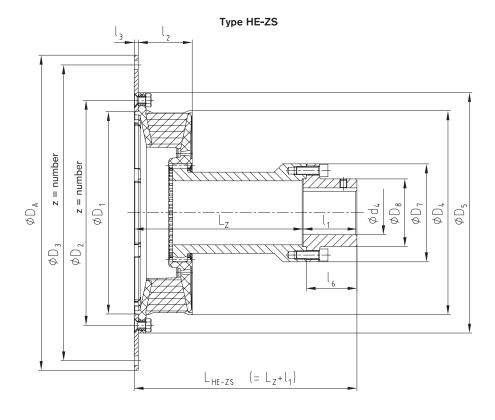


											В	oWe	x-EL	.AS1	TIC®	Тур	e HI	E-ZS	;									
Size	Max. finish bore	Flai	nge co	nnec	tion a	cc. to	SAE	- J620	D _A f	or HE	-zs				Dime	nsions	s [mm]]			D	rop-o HE-Z	ut cen 'S LZ		art	Weight with		oment of [kgm²]
	d4	6 1/2"	7 1/2"	8"	10"	11 ½"	14"	16"	18"	21"	24"	D ₁	D ₄	D ₅	D ₇	D ₈	I ₁	l ₂	l ₃	16	100	120	140	180	250	[kg]	JA	JL
		•																48	10		•	•				2.91)	0.0026	0.0033
48 ³⁾	28		•									160	161	200	78	45	40			37	•	•				3.61)	0.0106	0.0033
40 "	20			•								100	104	200	/0	45	40	37	4	37	•	•				3.91)	0.0148	0.0033
					•																•	•				4.61)	0.0298	0.0033
G65 ³⁾	45				•								205		110	72	60	48	3	56		•	•			7.31)	0.0242	0.0129
	40					•							200		110	12	00		Ů	00			•	•		8.92)	0.0372	0.0150
80 ³⁾	65				•							265	266	318	145	100	80	70	11	76			•	•		13.72)	0.0211	0.0497
						•								0.0					6				•	•		15.9 ²⁾	0.0726	0.0497
G80 ³⁾	65					•						300	302	358	145	100	80	80	11	76			•	•		14.62)	0.0402	0.0634
							•												6					•	•	19.5 ²⁾	0.2251	0.0634
100 ³⁾	95						•						350		202	148	110	80	4	106				•	•	29.82)	0.1951	0.1779
125 4)	100						•						416		225	165	120	99	6	116				•	•	41.72)	0.3013	0.3363
								•																•	•	43.62)	0.4123	0.3363
G125 ⁴⁾	120							•					440		225	165	120	95	6	116				•	•	45.6 ²⁾	0.4781	0.3700
									•															•	•	47.72)	0.6380	0.3700
150 4)	135	_							•	_			470		245	185	140	140	6	136					•	63.2	0.6918	0.6647
										•															•	67.9	1.1410	0.6647
G150 ⁴⁾	135								•				504		245	185	140	140	6	136					•	68.3	0.7540	0.7677
										•															•	73.0	1.2460	0.7677
200 4)	150									•			568		270	205	160	149	6	156					•	98.7	1.5348	1.4109
											•														•	101.7	1.9138	1.4109
G200 ⁴⁾	150									•	•		600		270	205	160	149	6	156					•	103.5	1.7270 2.1060	1.6401
											•								9 6							106.6	2.1060	1.6401

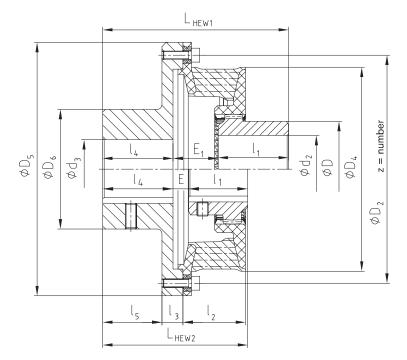
	BoWex-ELASTIC® Type HEW																				
Size	Max. fin	ish bore								Dimens	ions [mr	m]							Weight with max. bore		oment of [kgm²]
	d ₂	dз	D	D ₂	ZX	M:	D ₄	D ₅	D ₆	11	12	lз	14	I 5	E	E ₁	LHEW1	LHEW2	[kg]	JA	JL
42	48	50	68	162	6	M6	146	180	85	50	45	15	50	42	4	32	132	104	4.3	0.0121	0.0015
48 ³⁾	48	55	68	180	8	M6	164	200	92	50	45	17	55	45	4	32	137	109	5.5	0.0204	0.0019
65 ³⁾	65	75	96	224	8	M8	205	245	125	70	55	28	75	63	5	42	187	150	13.2	0.0752	0.0071
80 ³⁾	80	80	124	295.27	8	M10	266	318	130	90	70	17	80	70	5	45	215	160	19.7	0.1449	0.0285
G 80 ³⁾	85	95	124	333.4	8	M10	302	358	145	90	80	22	90	78	5	55	235	185	25.9	0.2748	0.0422
100 ³⁾	100	110	152	438.15	8	M12	350	478	158	110	80	14	111.5	113	26	57	278	207	48.5	0.8356	0.1050
125 4)	125	125	192	438.15	8	M12	416	478	175	140	99	14	170	158	-	45	327	-	67.2	0.9498	0.2617
G125 ⁴⁾	125	125	192	489	8	M12	440	530	175	140	95	14	170	158	-	45	327	-	76.6	1.4492	0.3034
150 ⁴⁾	160	160	225	542.9	6	M16	470	585	225	150	100	18	150	145	-	70	380	-	110	2.7206	0.5303
G150 ⁴⁾	160	160	225	542.9	6	M16	504	585	225	150	108	18	150	145	-	70	380	-	113.4	2.7809	0.5861
200 4)	180	200	250	641.35	12	M16	568	683	280	175	149	26	220	214	-	85	480	-	195	6.6418	1.1406
G200 ⁴⁾	180	200	250	641.35	12	M16	600	683	280	175	149	26	220	214	-	85	480	-	200	6.6099	1.3419

¹⁾ with L_Z 120 2) with L_Z 100 3) technical data see page 214 4) technical data see page 216

³⁾ technical data see page 214 ⁴⁾ technical data see page 216 Other sizes available. Please consult with us.



Type HEW1



Type HEW2

BoWex-ELASTIC® HEG Highly flexible flange couplings

Cardan shaft connecting coupling

















									В	BoWex-ELASTIC® Type HEG1 and type HEG2																			
Size	FI		el conne AE-J62		to	N	∕letric	flange					ension					ICS c	ardan		connec nm]	tion H	IEG2	Dimer	nsions	[mm]	Weight		moment iertia
Size	8"	10"	11 1/2"	14"	16"	58	65	75	90	100	120	150	180	l ₄	L	2 C	4 C	5 C	6 C	7 C	8,5 C	8 C	L ₁	D ₄	12	l ₃	[kg]	JA [kgm²]	JL [kgm²]
48 1)	•					•	•	•						8	58.5									162	43.5	8	7	0.03	0.006
4817		•				•	•	•						0 30	36.3									103	43.5	°	8	0.06	0.006
G 65 1)		•						•	•	•				8	66	•	•	•					71	205	48.0	10	12	0.07	0.02
G 65 7			•					•	•	•				0	00	•	•	•					_ ′ '	205	46.0	10	14	0.10	0.02
80 ¹⁾		•						•	•	•	•			10	88.5		•	•	•				104	265	68.5	23	21	0.11	0.06
80 7			•					•	•	•	•			10	00.5		•	•	•				104	265	00.0	12	23	0.17	0.06
G 80 1)			•						•	•	•	•		10	96			•	•	•			110	200	74.0	23	26	0.18	0.09
G 80 "				•					•	•	•	•		10	90			•	•	•			110	302	74.0	12	33	0.48	0.09
100 1)				•						•	•	•	•	12	98					•	•		128	350	78.0	16	41	0.63	0.19
1052)				•						•	•	•	•	12 111	40 444						•	•	105	416	96.0	18	56	0.74	0.42
125 2)					•					•	•	•	•	12	' ' '						•	•	135	416	90.0	12	59	0.97	0.42

¹⁾ technical data see page 214

²⁾ technical data see page 216

Flywhe	eel conr	nection	to SAE	-J620
Size	DA	D ₁	Z1	d ₁
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	14
16"	517.50	489.00	8	14

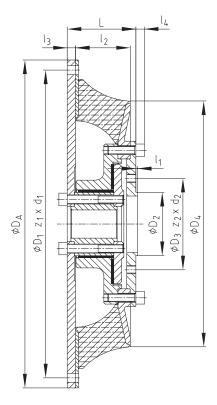
	Metri	c flange HEG1	conne [mm]	ction	
Size	D ₂	11	D ₃	z ₂	d ₂
58	30	1.0	47.0	4	M5
65	35	1.0	52.0	4	M6
75	42	1.5	62.0	6	M6
90	47	2.0	74.5	4	M8
100	57	2.0	84.0	6	M8
120	75	2.0	101.5	8	M10
150	90	2.5	130.0	8	M12
180	110	3.0	155.5	8	M14

N	/IECHAI		ırdan sl G2 [mı		nection	1								
Size	D ₅	I ₅	I ₆	17	l ₈	z3								
2 C	79.35	33.3	59.5	9.50	3.8	M8								
4 C	107.92	36.5	87.3	9.50	3.8	M8								
5 C	115.06	42.9	88.9	14.26	5.1	M10								
6 C	140.46	42.9	114.3	14.26	5.1	M10								
7 C	148.39	49.2	117.5	15.85	6.0	M12								
8,5 C	8,5 C 165.08 71.4 123.8 15.85 6.0 M12													
8 C	206.32	49.2	174.6	15.85	6.0	M12								

BoWex-ELASTIC* type HEG has a maintenance-free plain bearing compensating for the radial loads generated by the cardan shaft. Moreover, the coupling has a friction disk which is axially prestressed by the elastomer part. The elastomer part is made of natural rubber via vulcanizing.

The permanent friction provides the coupling with excellent damping properties reducing the high vibratory torques arising in the coupling during the starting process and running through resonance considerably.





Type HEG2

