

BoWex® FLE-PA Torsionally stiff flange couplings

Axial plug-in, maintenance-free, torsionally stiff



BoWex® FLE-PA – Dimensions/nominal dimension acc. to SAE																			
Size	Pilot bore	Finish bore d		Dimensions [mm]								Special length l ₁ max.	Nominal size acc. to SAE (D ₃)						Max axial displacement [mm]
		Min.	Max.	D	D ₁	l ₁	l ₃	l ₇	l ₈	l ₁₀	l ₁₁		6 1/2"	7 1/2"	8"	10"	11 1/2"	14"	
48	-	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	90	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 dimensions see page 212 et seqq. and on request

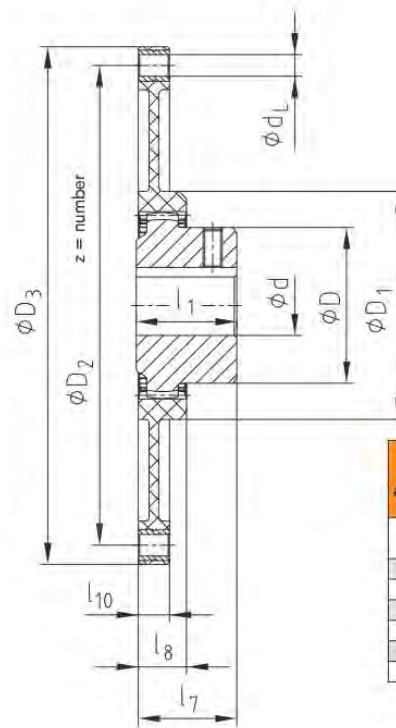
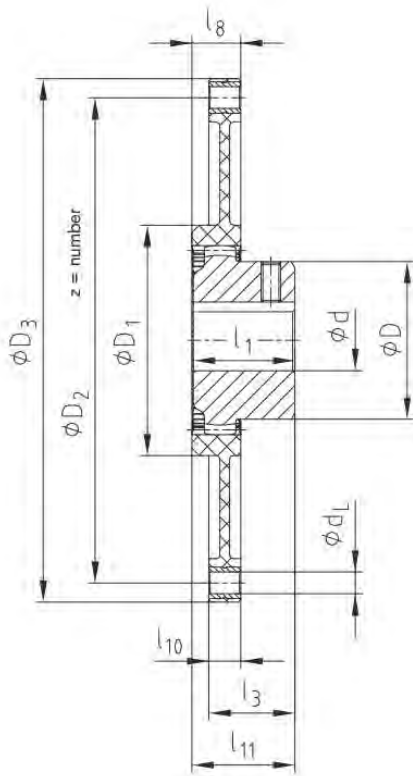
Technical data of BoWex® FLE-PA – Torques/weights/mass moments of inertia/torsion spring stiffness															
Size	Torque T _K [Nm]			Weight/mass moment of inertia J	Hub with max. bore	FLE-PA flanges according to SAE						Dynamic torsion spring stiffness with +60°C/ψ = 0.4 [Nm/rad]			
	T _{KN}	T _K max.	T _{KW}			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	240	600	120	[kg]	0.79	0.32	0.43	0.51	0.64	-	-	35 x 10 ³	75 x 10 ³	105 x 10 ³	125 x 10 ³
				[kgm ²]	0.0007	0.0021	0.0035	0.0049	0.0085	-	-				
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 ³
				[kgm ²]	0.0007	0.0021	0.0035	0.0049	0.0085	-	-				
T 55	450	1125	225	[kg]	1.20	0.34	0.62	0.45	0.646	-	-	90 x 10 ³	140 x 10 ³	170 x 10 ³	195 x 10 ³
				[kgm ²]	0.0016	0.0022	0.0053	0.0044	0.0086	-	-				
65	650	1600	325	[kg]	1.50	-	-	0.63	0.64	0.89	-	110 x 10 ³	160 x 10 ³	200 x 10 ³	230 x 10 ³
				[kgm ²]	0.0027	-	-	0.0064	0.0065	0.012	-				
T 65	800	2000	400	[kg]	1.60	-	-	0.63	0.64	0.89	-	130 x 10 ³	190 x 10 ³	240 x 10 ³	280 x 10 ³
				[kgm ²]	0.0035	-	-	0.0064	0.0065	0.012	-				
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
				[kgm ²]	0.0059	-	-	-	0.0132	-	-				
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
				[kgm ²]	0.0151	-	-	-	0.015	0.022	-				
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
				[kgm ²]	0.0151	-	-	-	0.015	0.022	-				
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
				[kgm ²]	0.0401	-	-	-	-	0.021	0.234				
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 ³
				[kgm ²]	0.0401	-	-	-	-	0.021	0.234				
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 ³
				[kgm ²]	0.1359	-	-	-	-	0.043	0.306				
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 ³
				[kgm ²]	0.1359	-	-	-	-	0.043	0.306				

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



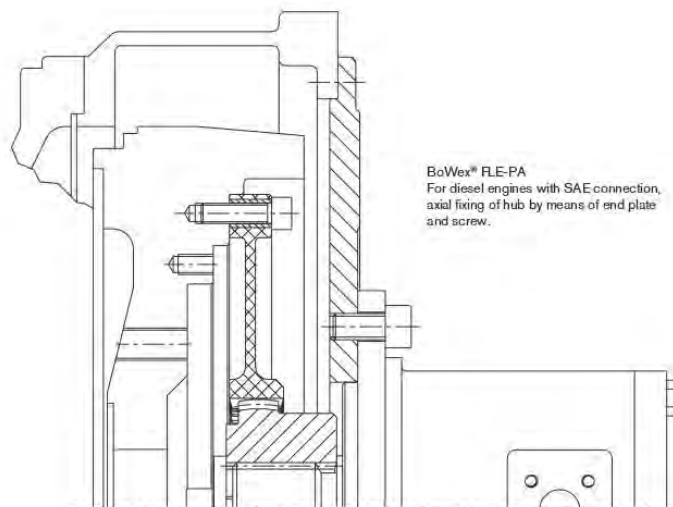
Short mounting version

Long mounting version



Flange dimensions according to SAE J620 [mm]				
Size	D ₃	D ₂	z	d _L
6 1/8"	215.9	200.02	6	9
7 1/2"	241.3	222.25	8	9
8"	263.52	244.47	8	11
10"	314.32	295.27	8	11
11 1/2"	352.42	333.37	8	11
14"	466.72	438.15	8	13

Example of installation

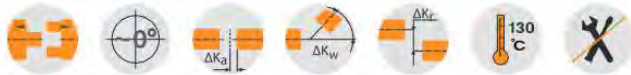


BoWex[®] FLE-PAC Torsionally stiff flange couplings

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



For legend of pictogram please refer to flapper on the cover



BoWex [®] FLE-PAC – Dimensions/nominal dimension to SAE																		
Size	Pilot bore	Finish bore d		Dimensions [mm]							Special length h ₁ max.	Nominal size acc. to SAE (D3)						Max. axial displacement [mm]
		Min.	Max.	D	D ₁	l ₁	l ₃	l ₇	l ₈	l ₁₀		6 1/2"	7 1/2"	8"	10"	11 1/2"	14"	
48 / T 48	13	15	48	68	110	50	35	46	25	3	up to 60	●	●	●	●		± 3	
T 55	17	20	55	85	148	50	32	42	28	3	-	●	●	●	●		± 3	
65 / T 65	21	30	65	96	165	55	36	46	32	4	up to 70	●	●	●	●		± 3	
80 / T 80	31	35	90	124	220	90	72	76	35	4	-				●	●	± 3	
100 / T 100	38	40	100	152	280	110	85	102	47	5	-				●	●	± 3	
125 / T 125	45	50	125	192	250	140	113	140	50	28	-				●	●	± 3	

Special flange dimensions deviating from SAE standard are also available.

Technical data of BoWex [®] FLE-PAC – Torques/weights/mass moments of inertia/torsion spring stiffness																	
Size	Torque T _K [Nm]			Weight/mass moment of inertia J	Hub with max bore	FLE-PAC flanges according to SAE						Dynamic torsion spring stiffness with +60 °C/ψ = 0.45 [Nm/rad]					
	T _{KN}	T _{K max}	T _{KW}			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
T 48	370	740	185	[kgm ²]	0.0007	0.0049	0.0077	0.0109	0.0221					91 x 10 ³	129 x 10 ³	155 x 10 ³	182 x 10 ³
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
				[kgm ²]	0.0016	0.0049	0.0077	0.0109	0.0222					214 x 10 ³	329 x 10 ³	397 x 10 ³	451 x 10 ³
65	800	1600	400	[kg]	1.50	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
				[kgm ²]	0.0027	0.0065	0.0101	0.0145	0.0294	0.0467				486 x 10 ³	713 x 10 ³	923 x 10 ³	1156 x 10 ³
T 65	1000	2000	500	[kg]	1.60	0.93	1.2	1.48	2.20	2.83				556 x 10 ³	815 x 10 ³	1065 x 10 ³	1329 x 10 ³
				[kgm ²]	0.0035	0.0065	0.0101	0.0145	0.0294	0.0467				679 x 10 ³	929 x 10 ³	1218 x 10 ³	1457 x 10 ³
80	1500	3000	750	[kg]	5.20				2.27	2.90	5.20			767 x 10 ³	1030 x 10 ³	1343 x 10 ³	1594 x 10 ³
				[kgm ²]	0.0151				0.0312	0.0485	0.1462			1887 x 10 ³	2495 x 10 ³	3035 x 10 ³	3629 x 10 ³
T 80	1850	3700	925	[kg]	5.20				2.27	2.90	5.20			1887 x 10 ³	2495 x 10 ³	3035 x 10 ³	3629 x 10 ³
				[kgm ²]	0.0151				0.0312	0.0485	0.1462			1887 x 10 ³	2495 x 10 ³	3035 x 10 ³	3629 x 10 ³
100	2550	5100	1275	[kg]	9.37				3.35	6.22				1887 x 10 ³	2495 x 10 ³	3035 x 10 ³	3629 x 10 ³
				[kgm ²]	0.0401				0.0606	0.1828				1887 x 10 ³	2495 x 10 ³	3035 x 10 ³	3629 x 10 ³
T 100	3100	6200	1550	[kg]	9.37				3.35	6.22				1887 x 10 ³	2495 x 10 ³	3035 x 10 ³	3629 x 10 ³
				[kgm ²]	0.0401				0.0606	0.1828				1887 x 10 ³	2495 x 10 ³	3035 x 10 ³	3629 x 10 ³
125	5350	10700	2675	[kg]	19.73				2.09	9.85				1887 x 10 ³	2495 x 10 ³	3035 x 10 ³	3629 x 10 ³
				[kgm ²]	0.1359				0.043	0.306				1887 x 10 ³	2495 x 10 ³	3035 x 10 ³	3629 x 10 ³
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
				[kgm ²]	0.1359				0.043	0.306				1887 x 10 ³	2495 x 10 ³	3035 x 10 ³	3629 x 10 ³

■ = 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.

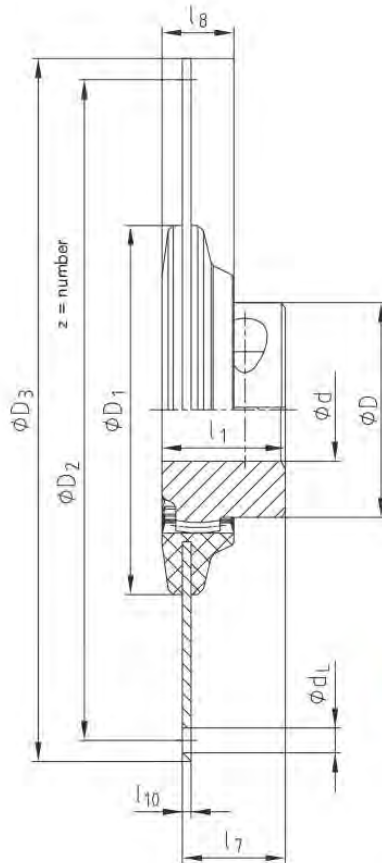
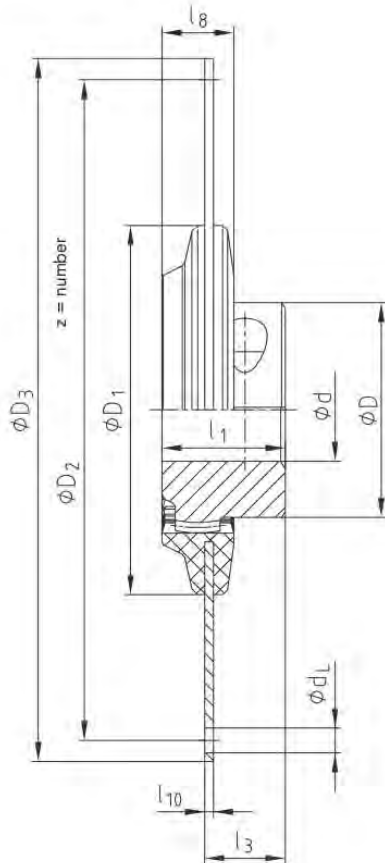
Mounting procedure, screw type with property class, tightening torques as per KTR assembly instructions (see www.ktr.com).



BoWex® FLE-PAC

Short mounting version

Long mounting version

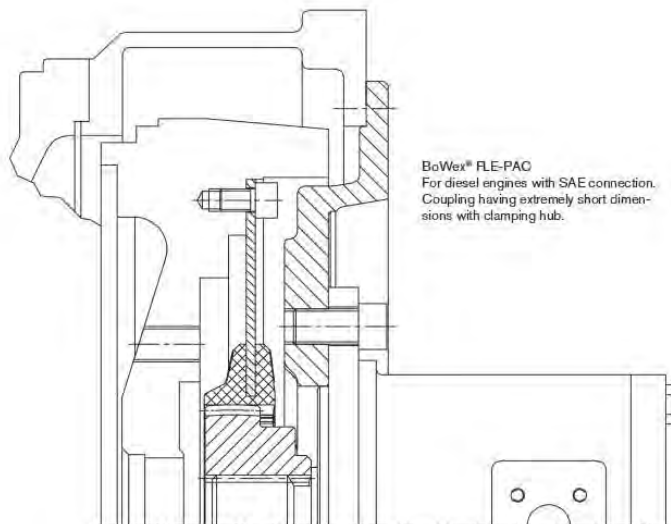


Flange dimensions according to SAE J620 [mm]

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 1/2"	352.42	333.37	8	11
14"	466.72	438.15	8	14

MONOLASTIC®

Flange couplings



BoWex-ELASTIC®

BoWex[®] FLE-PA / FLE-PAC Torsionally stiff flange couplings

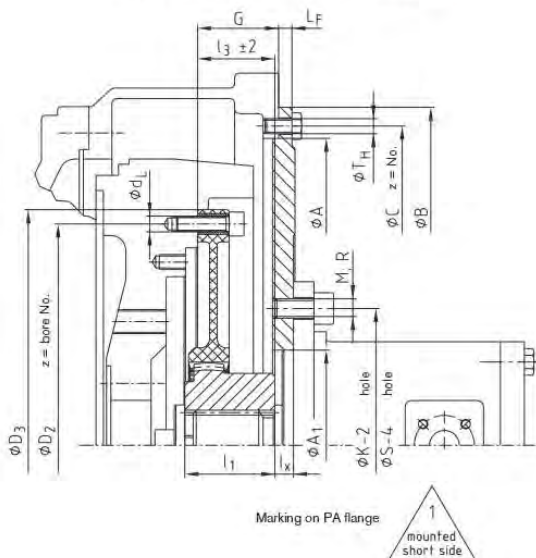
Selection according to SAE standard



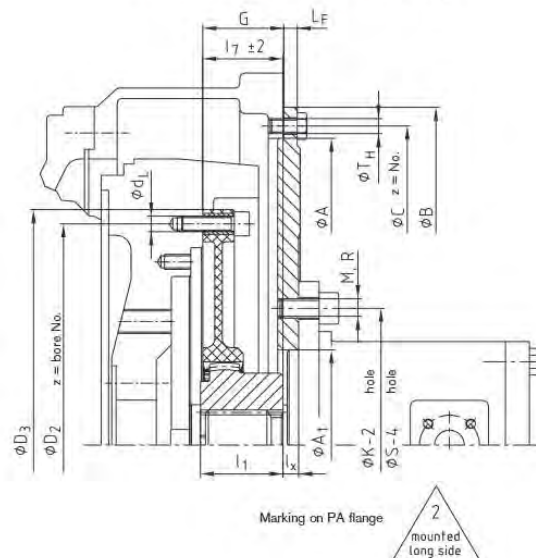
Determination of coupling

Determination of coupling size	Table 1
Connection dimension of coupling	Table 2
Hub type/mounting length	Table 3
SAE pump mounting flange	
Flange size according to SAE 617	Table 4
Connection flange of hydraulic pump	Table 5

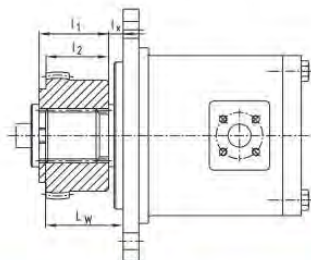
Short mounting version of coupling (l_3)



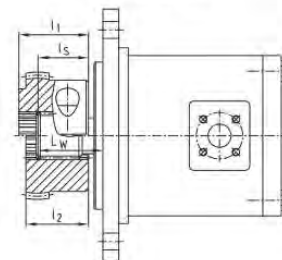
Long mounting version of coupling (l_7)



Spline hub



Clamping hub



Determination of mounting length l_3 or l_7

SAE shaft	$l_3 / l_7 = G + L_F - L_W + l_5$
DIN shaft	$l_3 / l_7 = G + L_F - l_x$

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 recommend to use a clamping hub.

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.

Screw tightening torque of FLE-PA flange on the flywheel

M8	25 Nm
M10	49 Nm
M12	86 Nm

Screw tightening torque of spline clamping hubs DIN EN ISO 4762

42/48	M10	49 Nm
T55/65/T70	M12	86 Nm
80/100/125	M16	210 Nm

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

Mounting dimensions according to SAE standard

1. Selection of coupling for diesel engine							
Diesel engine power		Coupling size	Flywheel to SAE			Pump mounting flange	Driving shaft of pump
kW	PS		G			LF	
up to 40	up to 55	48 FLE-PA	6 1/2"	30.15	1.19"	9.5	0.375"
			7 1/2"	30.15	1.19"		
			8	62	2.44"		
up to 75	up to 100	T55 FLE-PA	6 1/2"	30.15	1.19"	9.5	0.375"
			7 1/2"	30.15	1.19"		
			8	62	2.44"		
up to 90	up to 120	65 FLE-PA	8	62	2.44"	9.5	0.375"
			10	54	2.12"		
			11 1/2"	39.6	1.56"		
up to 150	up to 200	T70 FLE-PA	10	54	2.12"	9.5	0.375"
			10	54	2.12"		
up to 180	up to 240	80 FLE-PA	10	54	2.12"	9.5	0.375"
			11 1/2"	39.6	1.56"		
up to 285	380	100 FLE-PA	11 1/2"	39.6	1.56"	12.7	0.5"
			14	25.4	1"		
up to 540	720	125 FLE-PA	11 1/2"	39.6	1.56"	12.7	0.5"
			14	25.4	1"		

For dimensions to SAE see tables 3 and 4

See table 3
hub type
SAE J 498 / DIN 5480

4. Housing dimensions according to SAE 617 [mm]						
SAE size	A	B	C	Z	TH	
SAE-1	511.18	552	530.2	12	M10	3/8"
SAE-2	447.68	489	466.7	12	M10	3/8"
SAE-3	409.68	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"
SAE-6	266.7	308	285.7	8	M10	3/8"

5. Mounting flange for hydraulic pump acc. to SAE [mm]									
SAE size	SAE flange with 2 holes				SAE flange with 4 holes				
	A1	K-2	M	Z	A1	S-4	R	Z	
A	82.55	106.4	M10	3/8"	2	82.55	104.6	M10	3/8"
B	101.6	146.0	M12	1/2"	2	101.6	127.0	M12	1/2"
C	127.0	181.0	M16	3/4"	2	127.0	162.0	M12	1/2"
D	152.4	228.6	M16	3/4"	2	152.4	228.6	M16	3/4"
E	-	-	-	-	-	165.1	317.5	M20	3/4"

2. Dimensions of coupling flange according to SAE J620 [mm]				
Nominal size	D3	D2	z = number	d1
6 1/2"	215.90	200.02	8	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

3. Selection of coupling hubs - Determination of mounting length l3 or l7																
BoWex® coupling size	Pump shaft to SAE J 498 and DIN 5480	Spine hub	Spine clamping hub	Dimensions of coupling hub [mm]			Mounting length of coupling l3 or l7								Code to order coupling hub Specify coupling size	
				l1	l2	l5	Flange size 6 1/2" and 7 1/2"		Flange size 8"		Flange size 10"		Flange size 11 1/2"			
							K	L	K	L	K	L	K	L		
42	SAE-16/32 DP PI-S 3/4" z = 11	x	x	42	-	33	33	42								P559101
42	SAE-16/32 DP PB-S 1/2" z = 13	x	x	42	-	-	33	42								P567101
42	SAE-16/32 DP PB-BS 1" z = 15	x	x	42	-	27	33	42								P660201
48	SAE-16/32 DP	x	x	50	-	45	41	50	50	41	50					P663301
65	PA-S 1 3/8" z = 21	x	x	50	-	48			54	45	54	41				P663301
65	SAE-12/24 DP PC-S 1 1/4" z = 14	x	x	55	-	44			54	45	54	41				P656201
65	SAE-16/32 DP PD-S 1 1/2" z = 23	x	x	-	49	45					53	41				P664301
80	SAE-16/32 DP PE-S 1 3/4" z = 27	x	x	55	-	-						33	44			P665402
42	25 x 1.25 x 18	x	x	42	-	-	33	42								P000205
42	DIN 5480	x	x	42	-	-	33	42								P500202
42	30 x 2 x 14	x	x	42	-	-	33	42								P500203
48	DIN 5480	x	x	50	-	-	41	50								P000206
48	35 x 2 x 16	x	x	50	-	-	41	50	50		50					P500203
48	DIN 5480	x	x	46	-	-	37	46								P000303
65	35 x 2 x 16	x	x	55	-	-					54	39				P000303
65	DIN 5480	x	x	60	-	-			50	59	50	59	39			P500301
65	40 x 2 x 18	x	x	55	-	-					54	39				P000304
65	DIN 5480	x	x	55	-	-			54	45	54	39				P500302
65	45 x 2 x 21	x	x	-	64	-			60	69	60	69	39			P000403
65	DIN 5480	x	x	55	-	-			54	45	54	39				P500401
80	50 x 2 x 24 DIN 5480	x	x	55	-	-						37	42			P500405

Shown above is a small overview of spines available, other SAE or DIN spines are also available.

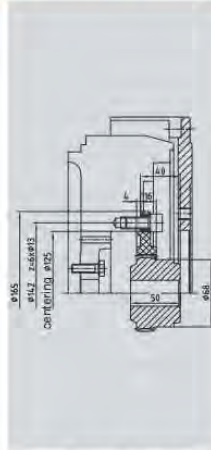
Ordering example: Coupling FLE-PA/LE-PAC			SAE pump mounting flange	
BoWex® 48 FLE-PA	7 1/2"	P663301	SAE-4	B-2L
Coupling size	SAE connection of coupling	Code of coupling hub	Pump mounting flange for engine housing	Pump flange acc. to SAE 2 holes/4 holes standard metric fastening thread
Table 1	Table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



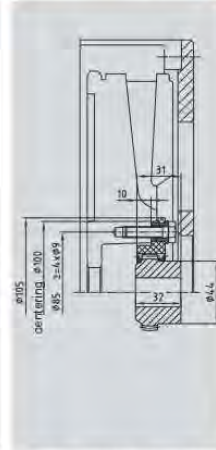
BoWex® FLE-PA Torsionally stiff flange couplings

Special flange programme, deviations from the SAE standard

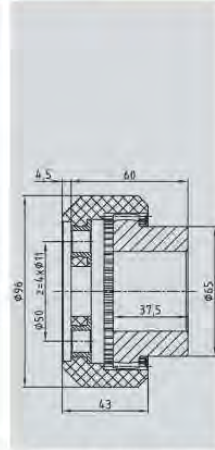
Fitting to
diesel engines:
Hatz



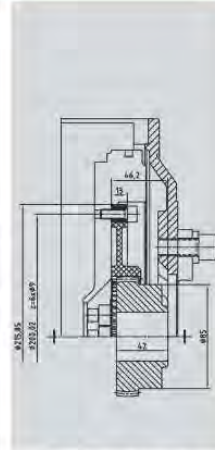
BoWex® 48 FLE-PA, Ø165
Hatz
2L/3L/4L41C 2M/3M/4M41
4M42,4L42C



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



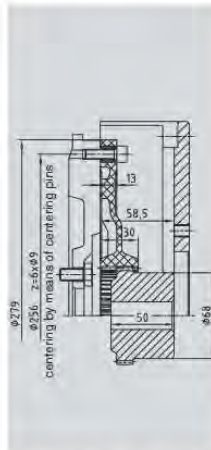
BoWex® 48 FLE-PA, Ø96
Hatz
Z788 / Z789 / Z790



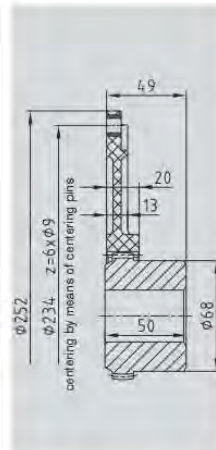
BoWex® T55 FLE-PA
Hatz
2-4 H50

Coupling size
Engine type

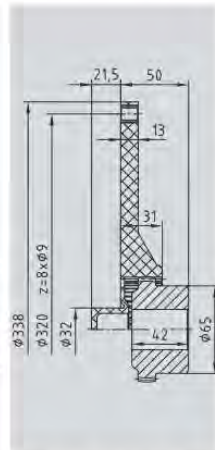
Fitting to
diesel engines:
VW
Mitsubishi



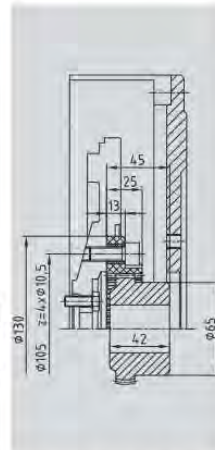
BoWex® 48 FLE-PA, Ø279
VW
028.B / M344



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



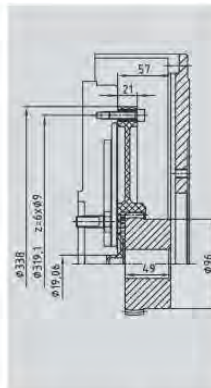
BoWex® 48 FLE-PA
Mitsubishi
Ø338-32



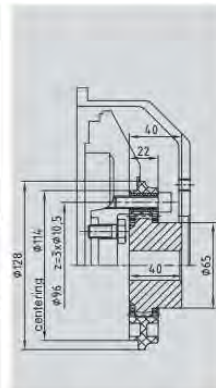
BoWex® 48 FLE-PA, Ø130
Mitsubishi
Series L / Series K

Coupling size
Engine type

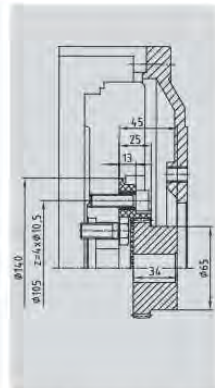
Fitting to
diesel engines:
Perkins
Lombardini



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
LDW

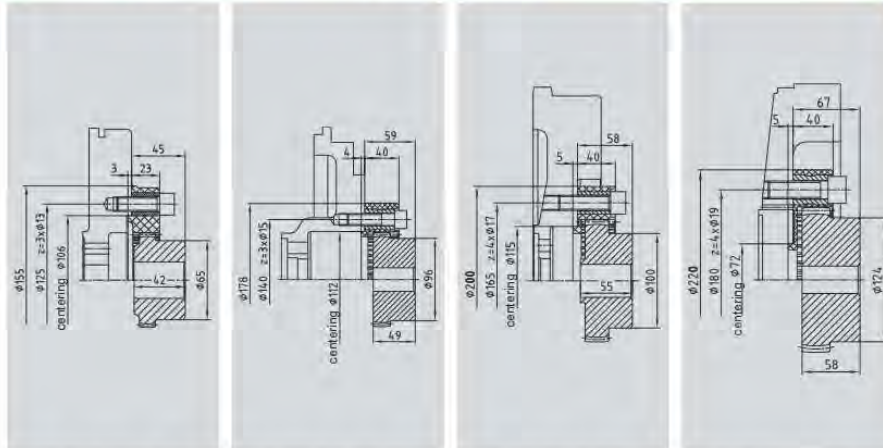
Coupling size
Engine type



BoWex® FLE-PA Torsionally stiff flange couplings

Special flange programme, deviations from the SAE standard

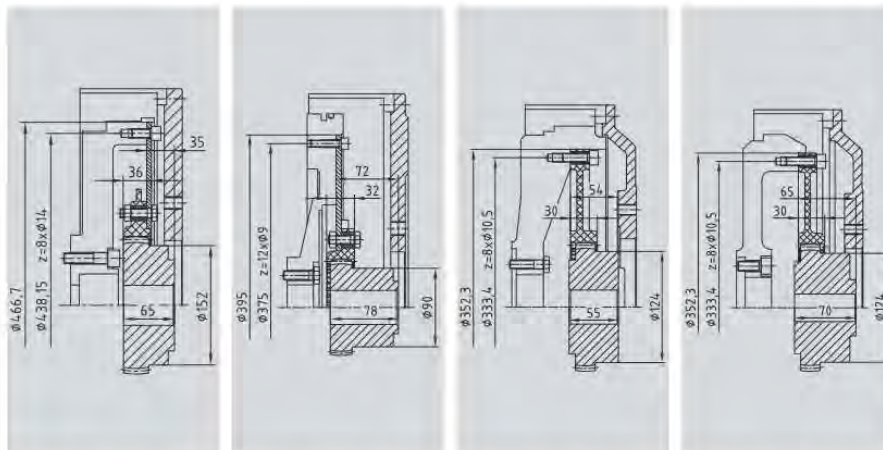
Fitting to diesel engines:
Perkins
Isuzu
Cummins



Coupling size	BoWex® 48 FLE-PA, Ø155	BoWex® 65 FLE-PA, Ø178	BoWex® 70 FLE-PA, Ø200	BoWex® 80 FLE-PA, Ø220
Engine type	3 holes, Ø125	3 holes, Ø140	4 holes, Ø165	4 holes, Ø180

BoWex® FLE-PA/-PAC

Fitting to diesel engines:
Caterpillar
Daimler
Cummins
John Deere

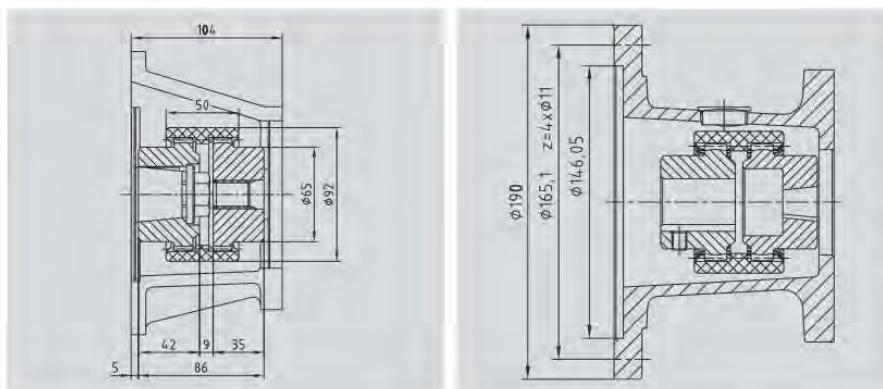


Coupling size	BoWex® T100 FLE-PA, 14"	BoWex® T65 FLE-PA, Ø395	BoWex® 80 FLE-PA, 11 1/2"	BoWex® 80 FLE-PA 11 1/2"
Engine type	Caterpillar C 10 / C 12	Daimler OM904	Cummins QSX/QSB	John Deere

MONOLASTIC®

Flange couplings

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



Coupling size	BoWex® M42 Hatz 2G30	BoWex® shaft coupling type M28 and M32 Housing connection according to SAE J609A
Engine type		

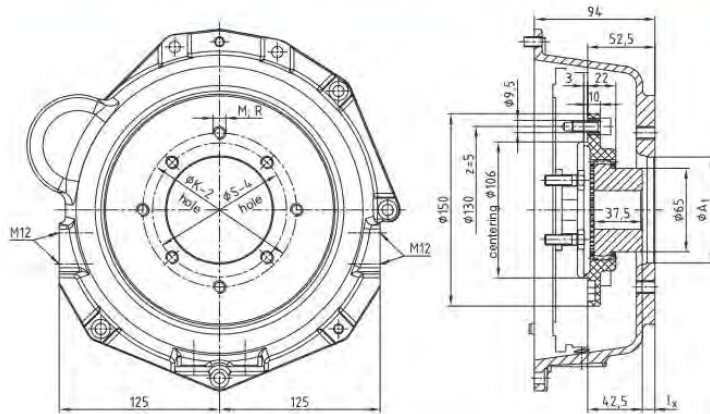
BoWex-ELASTIC®

BoWex[®] FLE-PA
Torsionally stiff 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



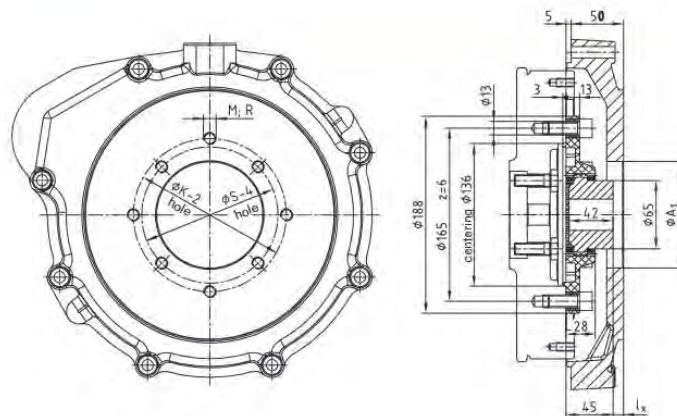
BoWex[®] 48 FLE-PA Ø 150 / pump connection housings

KUBOTA
Super 3 series

D 1403/1703
Flywheel
No. 190027991

V 1903/2203
Flywheel
No. 190002369

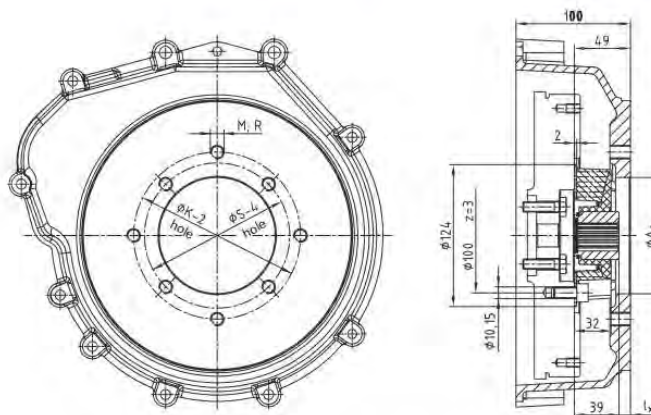
V 2003-T



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

KUBOTA
Super 5 series

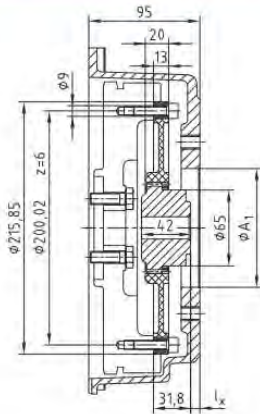
D 905
D 1005
D 1105
D 1105-T
V 1205
V 1305
V 1505



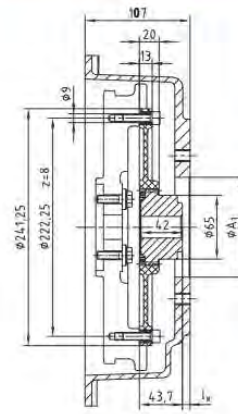
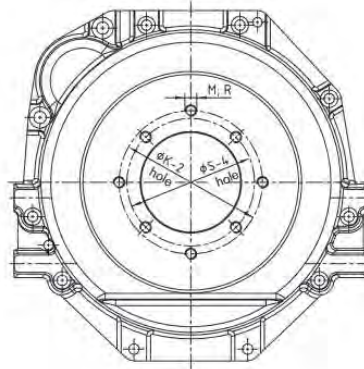
MONOLASTIC[®] 28 Ø 124 / pump connection housings

BoWex® FLE-PA
Torsionally stiff flange couplings

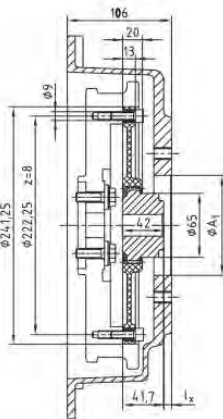
Flange couplings and pump connection housings for Perkins engines



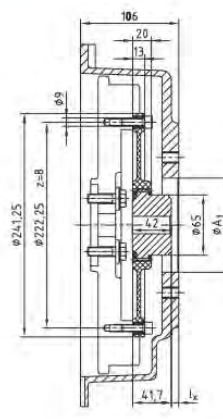
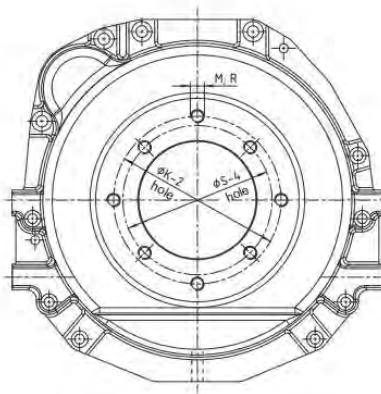
Perkins 403D - 10/11



Perkins 403D - 13/15

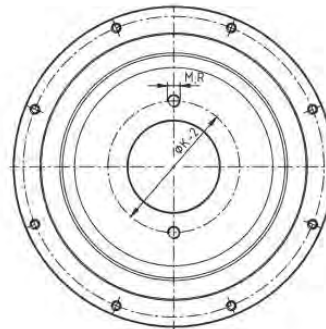


Perkins 404D - 20

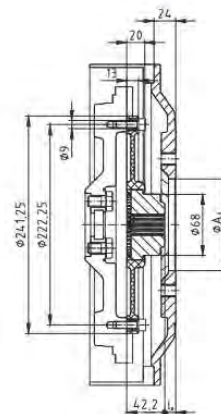


Perkins 404D - 22

Other selections on request for Yanmar Mitsubishi etc.



Mitsubishi SL series



Yanmar TNV series

BoWex® FLE-PA/-PAC

MONOLASTIC®

Flange couplings

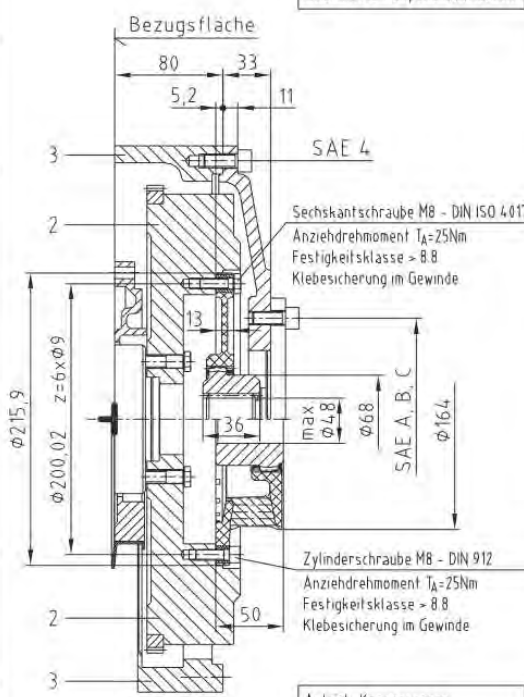
BoWex-ELASTIC®

BoWex® FLE-PA Torsionally stiff flange couplings

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

Anbaukombination A

Antrieb: Hydraulikpumpen
BoWex® 48 FLE-PA 6 1/2"
SAE-4, 0/33 Pumpenanbauflansch



Bezugsfläche
80 33
5,2 11

3 SAE 4

2 Sechskantschraube M8 - DIN ISO 4017
Anziehdrehmoment $T_A=25\text{Nm}$
Festigkeitsklasse > 8.8
Klebesicherung im Gewinde

13

max $\phi 4,8$

$\phi 68$

SAE A, B, C

$\phi 16,4$

2 Zylinderschraube M8 - DIN 912
Anziehdrehmoment $T_A=25\text{Nm}$
Festigkeitsklasse > 8.8
Klebesicherung im Gewinde

50

3

$\phi 215,9$

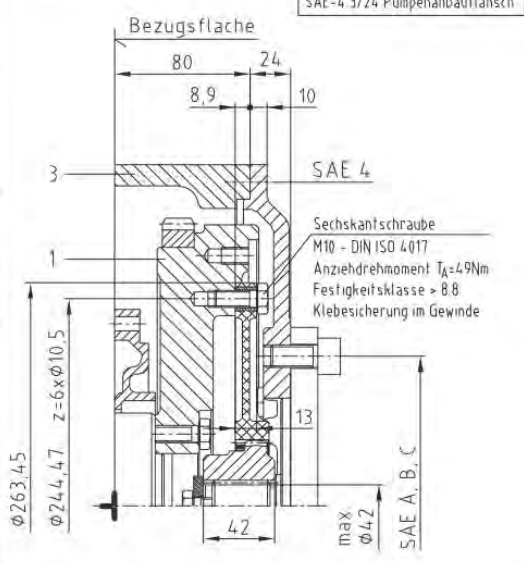
$\phi 200,02$ z=6x $\phi 9$

Antrieb Kompressoren,
Wasserpumpen usw.
BoWex-Elastic® HE 6 1/2"

Anbaukombination B

Anbaukombination C

Antrieb: Hydraulikpumpen
BoWex® 48 FLE-PA 8"
SAE-4 3/24 Pumpenanbauflansch



Bezugsfläche
80 24
8,9 10

3 SAE 4

1 Sechskantschraube
M10 - DIN ISO 4017
Anziehdrehmoment $T_A=49\text{Nm}$
Festigkeitsklasse > 8.8
Klebesicherung im Gewinde

13

max $\phi 4,2$

SAE A, B, C

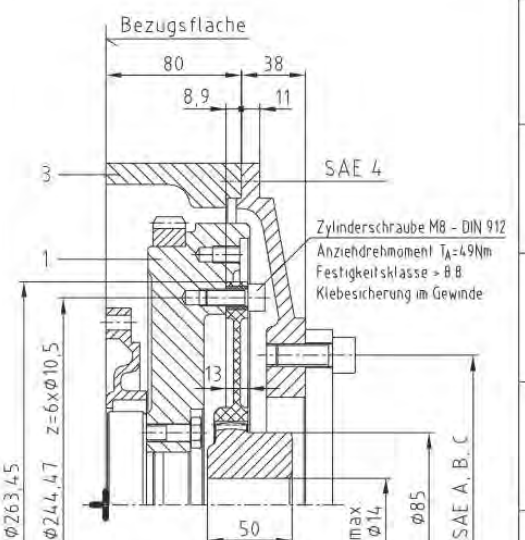
$\phi 263,45$

$\phi 244,47$ z=6x $\phi 10,5$

42

Anbaukombination D

Antrieb: Hydraulikpumpen
BoWex® T55 FLE-PA 8"
SAE-4, 0/38 Pumpenanbauflansch



Bezugsfläche
80 38
8,9 11

3 SAE 4

1 Zylinderschraube M8 - DIN 912
Anziehdrehmoment $T_A=49\text{Nm}$
Festigkeitsklasse > 8.8
Klebesicherung im Gewinde

13

max $\phi 14$

$\phi 85$

SAE A, B, C

$\phi 263,45$

$\phi 244,47$ z=6x $\phi 10,5$

50

ACHTUNG Entsprechend der Motorleistung ist die Kupplungsanordnung durch den Anwender zu prüfen
Nach erfolgtem Kupplungsanbau Kurbelwellenlangspiel prüfen Sollmaß für Lagerluft 0,1 - 0,3 mm
DEUTZ übernimmt keine Haftung für außerhalb des DEUTZ Lieferumfanges liegende Maßgaben und/oder Teile.

Bei techn. Rückfragen hinsichtlich der Kupplungsausführung wenden Sie sich bitte an
KTR-Kupplungstechnik GmbH
Postfach 1763 D-48407 Rheine
Telefon +49 - 05971 / 798-0

1	1	1	3	Zwischengehäuse (SAE-4)	0427 0980 KZ 0138-52 0417 1040 UA 0138-52	15	0553
-	-	1	2	Schwungrad (SAE 6 1/2") J= 8,499 kgm ²	0428 0586 KZ 0138-05 0417 1301 UA 0138-05	39,3	3174
1	1	-	1	Schwungrad (SAE 8 u 10") J= 9,405 kgm ²	0427 2426 KZ 0138-05 0417 1301 UA 0138-05	25,3	2461
D	C	B	A	Pos.	Benennung	Nummer	G ^W Baus.-Nr.

MEASUREMENTS AND DIMENSIONS	VALUES SPECIFIED	PERMISSIBLE TOLERANCES	VALUES FOR GENERAL TOLERANCES	MATERIAL	PRODUCTION METHOD
Part No.	FL/M1011 FL/M2011	Part No.	FL/M1011 FL/M2011	Material	11
Quantity	1	Quantity	1	Material	11
Part No.	FL/M1011 FL/M2011	Part No.	FL/M1011 FL/M2011	Material	11
Quantity	1	Quantity	1	Material	11
Part No.	FL/M1011 FL/M2011	Part No.	FL/M1011 FL/M2011	Material	11
Quantity	1	Quantity	1	Material	11
Part No.	FL/M1011 FL/M2011	Part No.	FL/M1011 FL/M2011	Material	11
Quantity	1	Quantity	1	Material	11
Part No.	FL/M1011 FL/M2011	Part No.	FL/M1011 FL/M2011	Material	11
Quantity	1	Quantity	1	Material	11

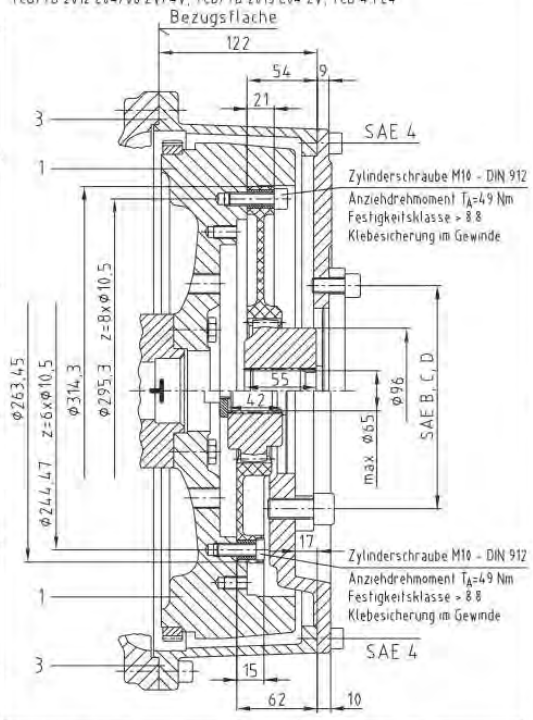
BoWex® FLE-PA Torsionally stiff flange couplings

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

Anbaukombination A

BoWex® 65 FLE-PA 10"
SAE-4/9 Pumpenanbauflansch

Deutz-Motor
BF4/6M 1012/2012, BF4/6 1013/2013,
TCD/TD 2012 L04/06 2V/4V, TCD/TD 2013 L04 2V, TCD 4.1 L4



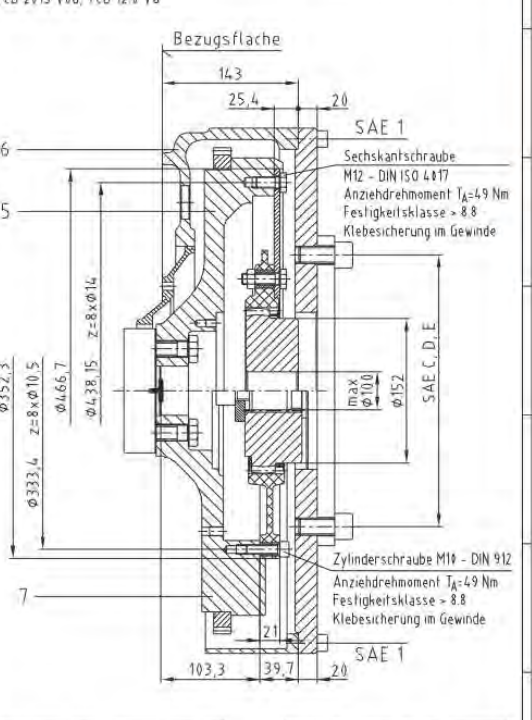
Bezugsfläche
122
54
9
21
SAE 4
Zylinderschraube M10 - DIN 912
Anziehdrehmoment $T_A=49$ Nm
Festigkeitsklasse > 8.8
Klebesicherung im Gewinde

$\phi 263,45$
 $\phi 244,47$ z=6x $\phi 10,5$
 $\phi 314,3$
 $\phi 295,3$ z=8x $\phi 10,5$
max $\phi 65$
SAE B, C, D
 $\phi 96$
17
Zylinderschraube M10 - DIN 912
Anziehdrehmoment $T_A=49$ Nm
Festigkeitsklasse > 8.8
Klebesicherung im Gewinde
SAE 4
15
62
10

Anbaukombination D

BoWex® 100 FLE-PA 14"
SAE-1/20 Pumpenanbauflansch

Deutz-Motor
BF6/8M 1015/2015,
TCD 2015 V06, TCD 12.0 V6



Bezugsfläche
143
25,4
20
SAE 1
Sechskantschraube
M12 - DIN ISO 4817
Anziehdrehmoment $T_A=49$ Nm
Festigkeitsklasse > 8.8
Klebesicherung im Gewinde

$\phi 352,3$
 $\phi 333,4$ z=8x $\phi 10,5$
 $\phi 466,7$
 $\phi 428,15$ z=8x $\phi 14$
max $\phi 100$
 $\phi 152$
SAE C, D, E
7
Zylinderschraube M10 - DIN 912
Anziehdrehmoment $T_A=49$ Nm
Festigkeitsklasse > 8.8
Klebesicherung im Gewinde
SAE 1
103,3
39,7
20

Anbaukombination B

BoWex® 65 FLE-PA 8"
SAE-4 2/-17 Pumpenanbauflansch

Deutz-Motor
BF4/6M 1012/2012, BF4/6 1013/2013,
TCD/TD 2012 L04/06 2V/4V, TCD/TD 2013 L04 2V, TCD 4.1 L4

Anbaukombination E

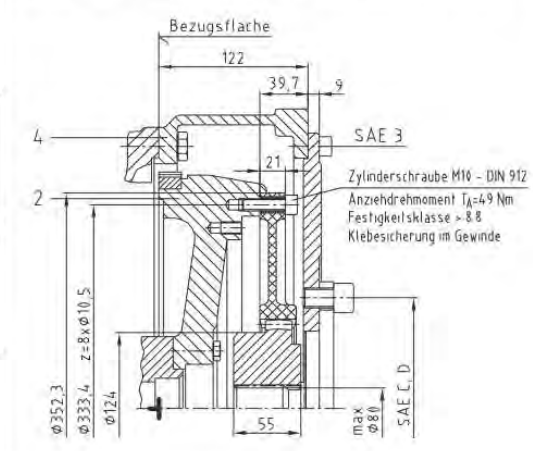
BoWex® 100 FLE-PA 11 1/2"
SAE-1/20 Pumpenanbauflansch

Deutz-Motor
BF6/8M 1015/2015,
TCD 2015 V06, TCD 12.0 V6

Anbaukombination C

BoWex® 80 FLE-PA 11 1/2"
SAE-3/9 Pumpenanbauflansch

Deutz-Motor
BF4/6M 1012/2012, BF4/6 1013/2013,
TCD/TD 2012 L04/06 2V/4V, TCD/TD 2013 L04/06 2V, TCD 4.1 L4, TCD 6.1 L6



Bezugsfläche
122
39,7
9
21
SAE 3
Zylinderschraube M10 - DIN 912
Anziehdrehmoment $T_A=49$ Nm
Festigkeitsklasse > 8.8
Klebesicherung im Gewinde

$\phi 352,3$
 $\phi 333,4$ z=8x $\phi 10,5$
 $\phi 124$
max $\phi 60$
SAE C, D
55

ACHTUNG: Entsprechend der Motorleistung ist die Kupplungsanordnung durch den Anwender zu prüfen. Nach erfolgtem Kupplungsanbau Kurbelwellenlängenspiel prüfen. Sollmaß für Lagerluft: Motor 1012/1013/2012/2013 = 0,1 - 0,28 mm, Motor 1015 = 0,2 - 0,4 mm.
DEUTZ übernimmt keine Haftung für außerhalb des DEUTZ Lieferumfanges liegende Maßangaben und/oder Teile

Bei techn. Rückfragen hinsichtlich der Kupplungsausführung wenden Sie sich bitte an: KTR-Kupplungstechnik GmbH, Postfach 1763, D-484 07 Rheine, Tel. 05971/798-0							
1	2	3	4	5	6	7	
-	-	-	-	-	-	7	
-	-	-	-	-	-	Schwungrad (SAE-11 1/2") J= 2,255 kgm ²	
-	-	-	-	-	6	66,7	
-	-	-	-	-	6	Anschlußgehäuse (SAE-11)	
-	-	-	-	-	5	45,6	
-	-	-	-	-	5	Schwungrad (SAE-14") J= 2,264 kgm ²	
-	-	-	-	-	4	61,6	
-	-	-	-	-	4	Anschlußgehäuse (SAE-3)	
-	-	-	-	-	3	Anschlußgehäuse (SAE-4)	
-	-	-	-	-	2	Schwungrad (SAE-10 u 11 1/2") J= 6,872 kgm ²	
-	-	-	-	-	1	Schwungrad (SAE-8 u 10") J= 1,03 kgm ²	
-	-	-	-	-	1	66,7	
E	D	C	B	A	Pos	Benennung	
Anbaukombination					Nummer	Gleit	Baus-Nr

DEUTZ 1012 / 1013
siehe 0420 8900 UB 0130-97

BoWex® FLE-PA/-PAC

MONOLASTIC®

Flange couplings

BoWex-ELASTIC®