

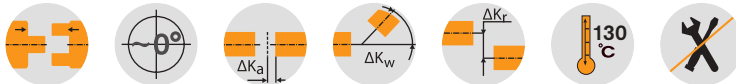
BoWex® FLE-PA

Torsionally rigid flange couplings

Axial plug-in, maintenance-free, torsionally rigid

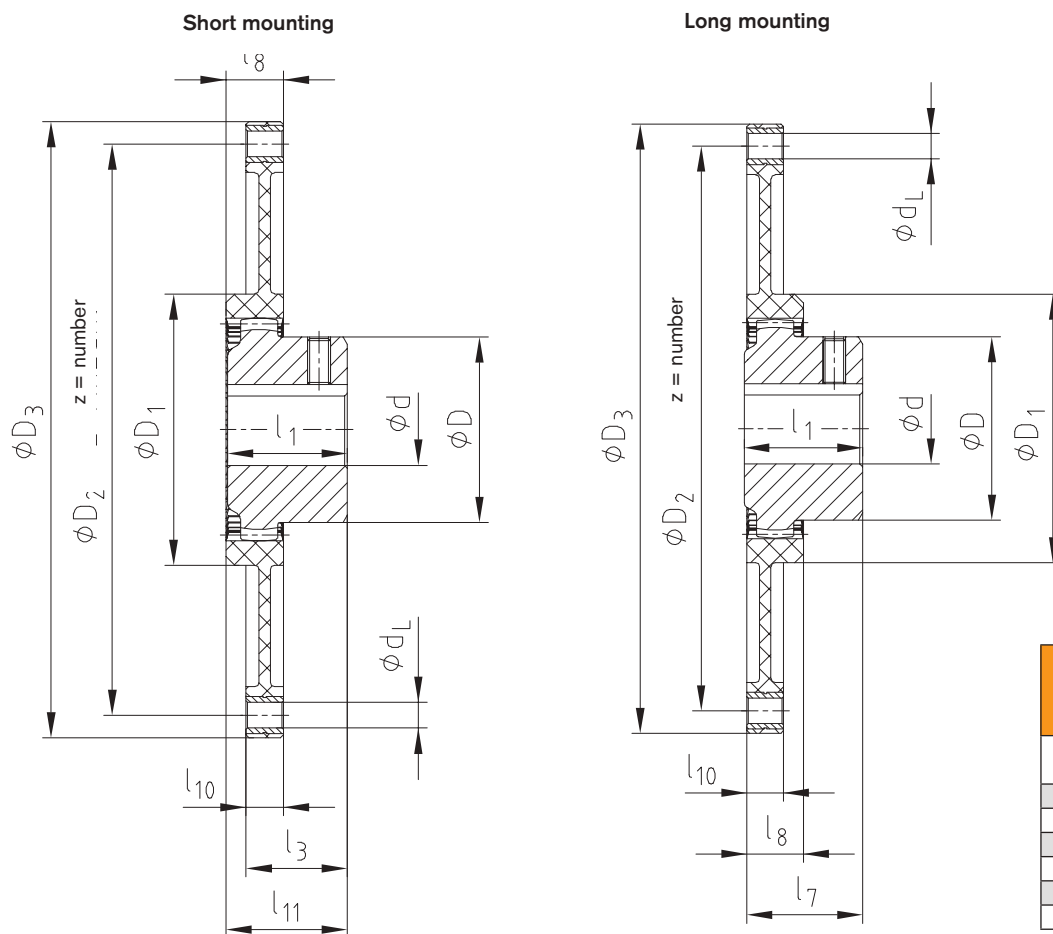


For legend of pictogram please refer to flapper on the cover



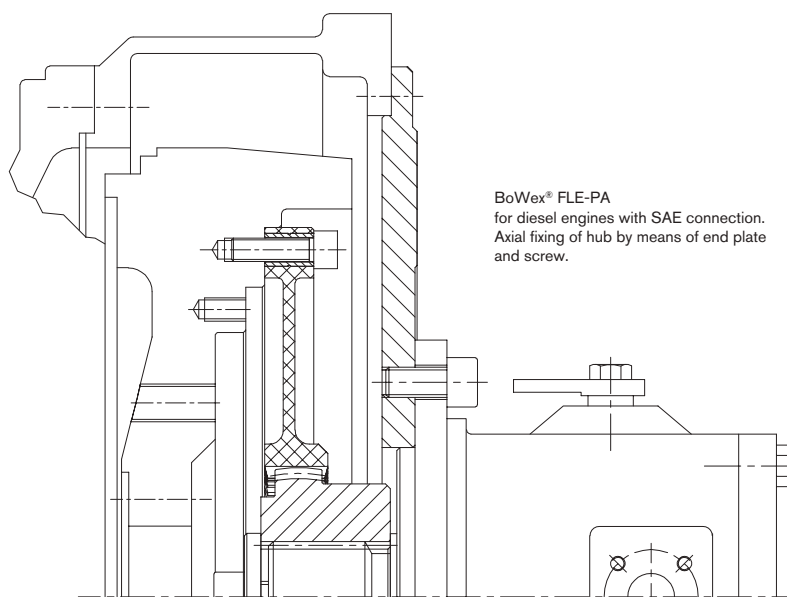
BoWex® FLE-PA – Dimensions/nominal dimension to SAE																			
Size	Pilot bore	Finish bore d		Dimensions [mm]								Special length l1 max.	Nominal dimension to SAE (D3)						Max. axial displacement [mm]
		min.	max.	D	D ₁	l ₁	l ₃	l ₇	l ₈	l ₁₀	l ₁₁		6 ½"	7 ½"	8"	10"	11 ½"	14"	
48	-	20	48	68	100	50	41	50	20	13	48	bis 60	●	●	●	●		± 2	
T 48	13	20	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	bis 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	37	133	50	28	97	-					●	●	± 2

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 Ø	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 ½"	7 ½"	8"	10"	11 ½"	14"	0,30 T _{KN}	0,50 T _{KN}	0,75 T _{KN}	1,00 T _{KN}
48	240	600	120	[kg] [kgm²]	0,79 0,0007	0,32 0,0021	0,43 0,0035	0,51 0,0049	0,64 0,0085	–	–	35 x 10³	75 x 10³	105 x 10³	125 x 10³
T 48	300	750	150	[kg] [kgm²]	0,79 0,0007	0,32 0,0021	0,43 0,0035	0,51 0,0049	0,64 0,0085	–	–	40 x 10³	86 x 10³	120 x 10³	143 x 10³
T 55	450	1125	225	[kg] [kgm²]	1,12 0,0016	0,34 0,0022	0,62 0,0053	0,45 0,0044	0,646 0,0086	–	–	90 x 10³	140 x 10³	170 x 10³	195 x 10³
65	650	1600	325	[kg] [kgm²]	2,30 0,0044	–	–	0,63 0,0064	0,64 0,0065	0,89 0,012	–	110 x 10³	160 x 10³	200 x 10³	230 x 10³
T 65	800	2000	400	[kg] [kgm²]	2,40 0,0044	–	–	0,63 0,0064	0,64 0,0065	0,89 0,012	–	130 x 10³	190 x 10³	240 x 10³	280 x 10³
T 70	1000	2500	500	[kg] [kgm²]	2,60 0,0059	–	–	–	0,941 0,0132	–	–	230 x 10³	345 x 10³	440 x 10³	517 x 10³
80	1200	3000	600	[kg] [kgm²]	5,20 0,0151	–	–	–	1,05 0,015	1,12 0,022	–	200 x 10³	410 x 10³	580 x 10³	700 x 10³
T 80	1500	3750	750	[kg] [kgm²]	5,20 0,0151	–	–	–	1,05 0,015	1,12 0,022	–	240 x 10³	450 x 10³	638 x 10³	770 x 10³
100	2050	5150	1025	[kg] [kgm²]	9,37 0,0401	–	–	–	–	1,16 0,021	8,45 0,234	500 x 10³	700 x 10³	856 x 10³	950 x 10³
T 100	2500	6250	1250	[kg] [kgm²]	9,37 0,0401	–	–	–	–	1,16 0,021	8,45 0,234	600 x 10³	830 x 10³	960 x 10³	1070 x 10³
125	4250	10700	2125	[kg] [kgm²]	19,73 0,1359	–	–	–	–	2,09 0,043	9,85 0,306	1280 x 10³	1885 x 10³	2280 x 10³	2665 x 10³
T 125	5300	13250	2650	[kg] [kgm²]	19,73 0,1359	–	–	–	–	2,09 0,043	9,85 0,306	1600 x 10³	2250 x 10³	2700 x 10³	3200 x 10³



Flange dimensions acc. to SAE J 620 [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	13

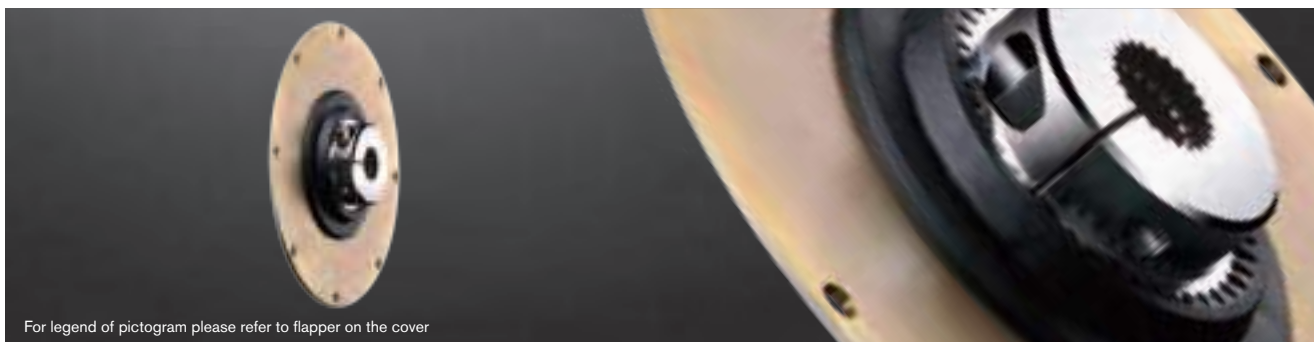
Example of installation



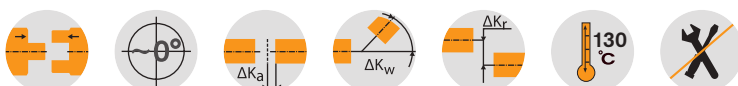
BoWex® FLE-PAC

Torsionally rigid flange couplings

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



For legend of pictogram please refer to flapper on the cover



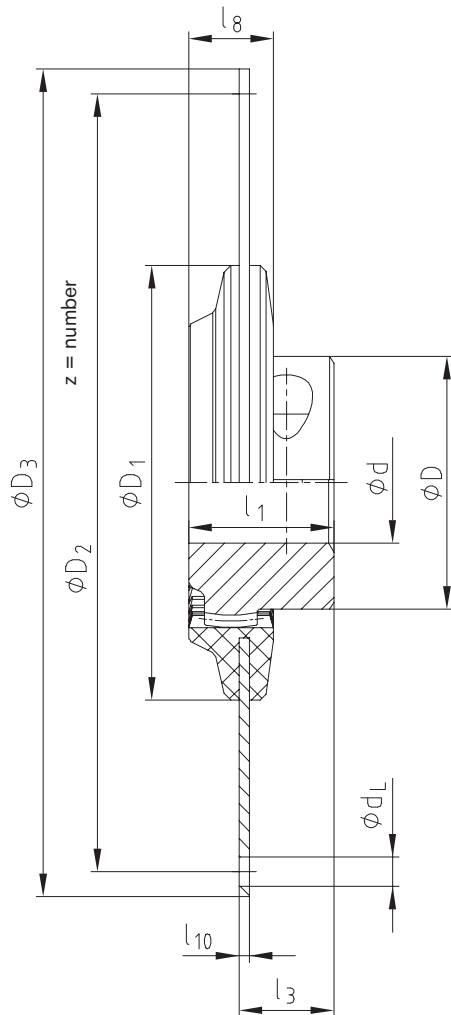
BoWex® FLE-PAC – Dimensions/nominal dimension to SAE

Size	Pilot bore	Finish bore d		Dimensions [mm]							Special length l1 max.	Nominal dimension to SAE (D3)						Max. axial displacement [mm]
		min.	max.	D	D1	l1	l3	l7	l8	l10		6 1/2"	7 1/2"	8"	10"	11 1/2"	14"	
48 / T 48	13	20	48	68	110	50	35	46	25	3	up to 60	●	●	●	●	●	●	± 3
65 / T 65	21	30	65	96	165	55	36	46	32	4	up to 70			●	●	●		± 3
80 / T 80	31	35	80	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	37	133	50	28	-					●	●	± 3

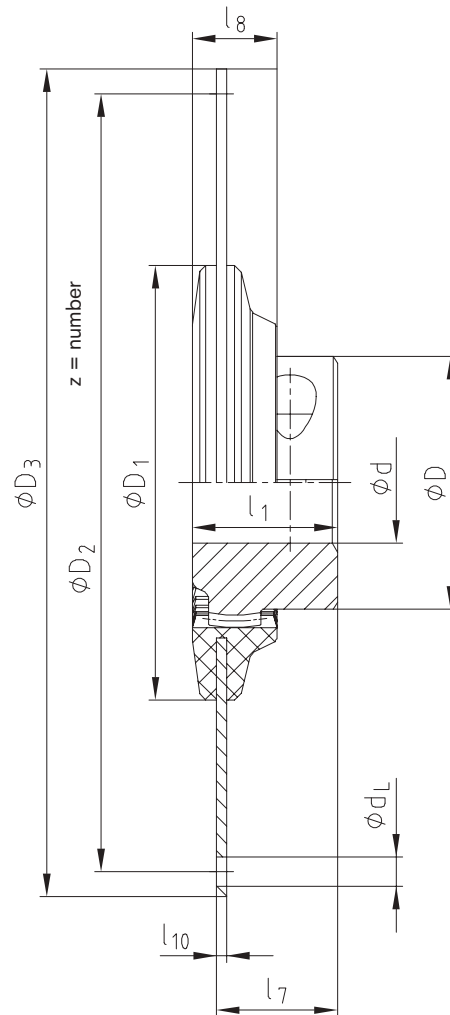
Technical data of BoWex® FLE-PAC – Torques/Weights/Mass moments of inertia/Torsion spring stiffness

Size	Torque T _K [Nm]			Weight / Mass moment of inertia I	Hub with max. bore Ø	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	240	600	120	[kg]	0,79	0,77	0,98	1,19	1,73			57 x 10³	89 x 10³	109 x 10³	126 x 10³
				[kgm²]	0,0007	0,0049	0,0077	0,0109	0,0221						
T 48	300	750	150	[kg]	0,79	0,77	0,98	1,19	1,73			74 x 10³	115 x 10³	141 x 10³	164 x 10³
				[kgm²]	0,0007	0,0049	0,0077	0,0109	0,0221						
65	650	1600	325	[kg]	2,30			1,48	2,20	2,83		164 x 10³	286 x 10³	365 x 10³	411 x 10³
				[kgm²]	0,0044			0,0145	0,0294	0,0467					
T 65	800	2000	400	[kg]	2,40			1,48	2,20	2,83		202 x 10³	328 x 10³	420 x 10³	473 x 10³
				[kgm²]	0,004			0,0145	0,0294	0,0467					
80	1200	3000	600	[kg]	5,20				2,27	2,90	5,20	378 x 10³	620 x 10³	790 x 10³	985 x 10³
				[kgm²]	0,0151				0,0312	0,0485	0,1462				
T 80	1500	3750	750	[kg]	5,20				2,27	2,90	5,20	430 x 10³	700 x 10³	900 x 10³	1120 x 10³
				[kgm²]	0,0151				0,0312	0,0485	0,1462				
100	2050	5150	1025	[kg]	9,37					3,35	6,22	600 x 10³	810 x 10³	1050 x 10³	1280 x 10³
				[kgm²]	0,0401					0,0606	0,1828				
T 100	2500	6250	1250	[kg]	9,37					3,35	6,22	700 x 10³	900 x 10³	1170 x 10³	1400 x 10³
				[kgm²]	0,0401					0,0606	0,1828				
125	4250	10700	2125	[kg]	19,73					2,09	9,85	1280 x 10³	1885 x 10³	2280 x 10³	2665 x 10³
				[kgm²]	0,1359					0,043	0,306				
T 125	5300	13250	2650	[kg]	19,73					2,09	9,85	1600 x 10³	2250 x 10³	2700 x 10³	3200 x 10³
				[kgm²]	0,1359					0,043	0,306				

Short mounting



Long mounting



Flange dimensions
acc. to SAE J 620 [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

BoWex® FLE-PAC

Torsionally rigid flange coupling

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

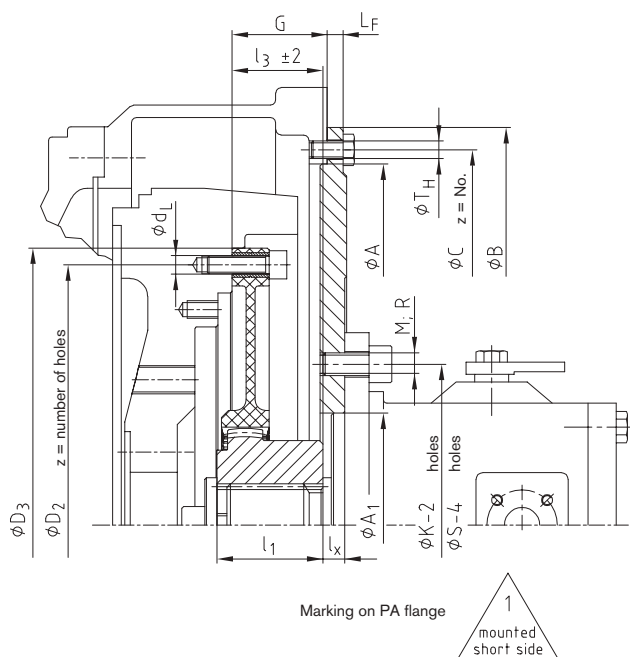
Flange size according to SAE 617

Table 4

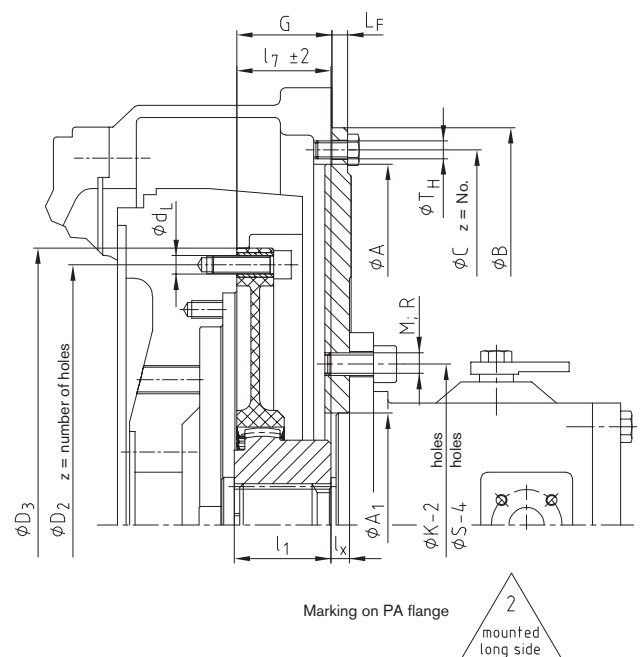
Mounting flange of hydraulic pump

Table 5

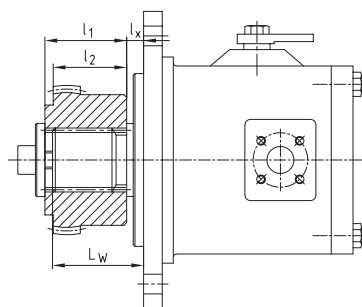
Short mounting of coupling (I3)



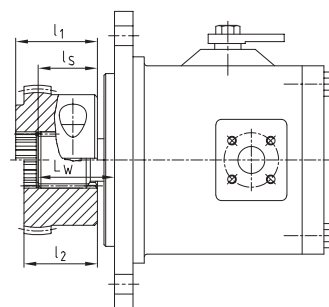
Long mounting of coupling (I7)



Spline hub



Clamping hub



Determination of mounting length I3 or I7

SAE-Welle	$l_3 / l_7 = G + L_F - L_W + l_S$
DIN-Welle	$l_3 / l_7 = G + L_F - l_X$

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 would recommend to use our 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 to 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
65	M12	86 Nm
80/100	M16	210 Nm

BoWex® FLE-PAC

Torsionally rigid flange couplings

Mounting dimensions according to SAE standard

1. Selection of coupling for diesel engine										
(X)	Diesel engine power		Coupling size	Flywheel to SAE			Pump mounting flange		Driving shaft of pump	
	kW	HP			G		LF			
				6 1/2"	30,15	1,19"	For dimensions to SAE see tables 3 and 4		See table 3 Hub design SAE J 498 / DIN 5480	
	bis	bis	48	7 1/2"	30,15	1,19"				
	30 kW	40 PS	FLE-PA	8"	62	2,44"		9,5		0,375"
				10"	54	2,12"				
	bis	bis	65	8"	62	2,44"				
	90 kW	120 PS	FLE-PA	10"	54	2,12"		9,5		0,375"
				11 1/2"	39,6	1,56"		12,7		0,5"
	bis	bis	80	11 1/2"	39,6	1,56"				
	180 kW	240 PS	FLE-PA					12,7		0,5"

2. Dimensions of coupling flange acc. to SAE J 620 [mm]					
(X)	Size	D ₃	D ₂	z=number	d _L
	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

4. Housing dimensions according to SAE 617 [mm]						
(X)	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	409,58	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]										
(X)	SAE size	SAE flange with 2 holes				SAE flange with 4 holes				
		A ₁	K-2	M	Z	A ₁	S-4	R	Z	
	A	82,55	106,4	M10	2	82,55	104,6	M10	3/8"	4
	B	101,6	146,0	M12	1/2"	101,6	127,0	M12	1/2"	4
	C	127,0	181,0	M16	2	127,0	162,0	M12	1/2"	4
	D	152,4	228,6	M16	5/8"	152,4	228,6	M16	5/8"	4
	E	-	-	-	-	165,1	317,5	M20	3/4"	4

3. Selection of coupling hub - determination of mounting length l ₃ or l ₇																
Specify type ⊗ ○	BoWex® coupling size	Pump shaft to SAE J 498 and DIN 5480	Spine hub	Spine clamping hub	Dimensions of coupling hub [mm]			Mounting lenght of coupling l ₃ or l ₇								Code to order coupling hub
								Flange size 6 1/2" and 7 1/2"		Flange size 8"		Flange size 10"		Flange size 11 1/2"		
					l ₁	l ₂	l ₅	K	L	K	L	K	L	K	L	Specify coupling size
42	SAE-16/32 DP	x	42	-	33	33	42							P559101		
	PI-S ¾"															
	z=11															
42	SAE-16/32 DP	x	42	-	-	33	42							P567101		
	PB-S 7/8"															
	z=13															
42	SAE-16/32 DP	x	42	-	27	33	42							P660201		
	PB-BS 1"															
	z=15															
48	SAE-16/32 DP	x	50	-	45	41	50		50	41	50			P663301		
65	PA-S 1 ⅜"	x	50	-	48				54	45	54	41		P663301		
	z=21															
65	SAE-12/24 DP	x	55	-	44				54	45	54	41		P656201		
	PC-S 1 ¼"															
	z=14															
65	SAE-16/32 DP	x	-	49	45						53	41		P664301		
	PD-S 1 ½"															
	z=23															
80	SAE-16/32 DP	x	55	-	-							44	33	P565402		
	PE-S 1 ¾"															
	z=27															
42	25 x 1,25 x 18 DIN 5480	x	42	-	-	33	42							P000205		
42		x	42	-	-	33	42							P500202		
42	30 x 2 x 14 DIN 5480	x	42	-	-	33	42							P500203		
48		x	50	-	-	41	50							P000206		
48		x	50	-	-	41	50		50		50			P500203		
48	35 x 2 x 16 DIN 5480	x	46	-	-	37	46							P000303		
65		x	55	-	-						54	39		P000303		
65		x	60	-	-			50	59	50	59	39		P500301		
65	40 x 2 x 18 DIN 5480	x	55	-	-						54	39		P000304		
65		x	55	-	-				54	45	54	39		P500302		
65	45 x 2 x 21 DIN 5480	x	-	64	-			60	69	60	69	39		P000403		
65		x	55	-	-				54	45	54	39		P500401		
80	50 x 2 x 24 DIN 5480	x	55	-	-							42	37	P500405		

↑ Please photocopy dimension sheet and mark the design required with a cross.

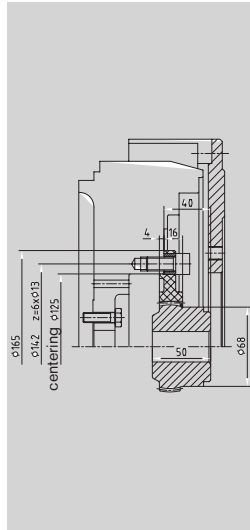
Ordering example: Coupling FLE-PA / FLE PAC					SAE pump mounting flange	
BoWex® 48 FLE-PA	7 1/2"	P663301	SAE-4	B-2L		
Coupling size	SAE connection of coupling	Code of coupling hub	Pump mounting flange for engine housing	Pump flange to SAE 2 holes/4 holes standard metric fastening thread		
Table 1	Table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

BoWex® FLE-PA

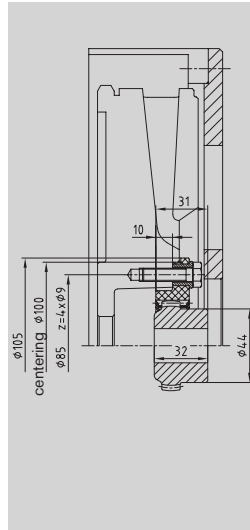
Torsionally rigid flange couplings

Special flange programme, deviations from the SAE standard

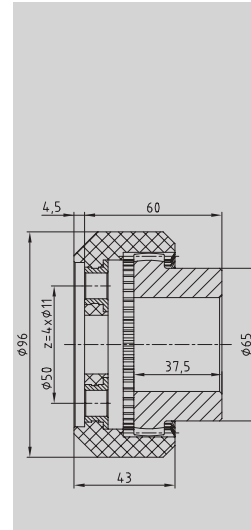
Fitting to:
Hatz
diesel engines



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



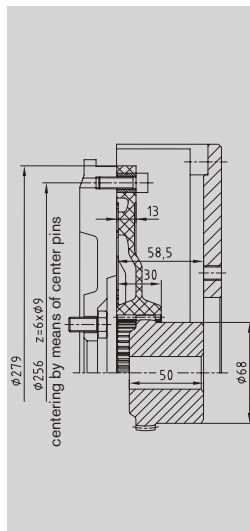
BoWex® 28 FLE-PA, Ø105
Hatz
1.D81 / 1D90



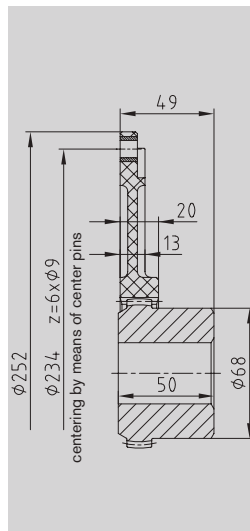
BoWex® 48 FLE-PA, Ø96
Hatz
Z788 / Z789 / Z790

Coupling size
Engine type

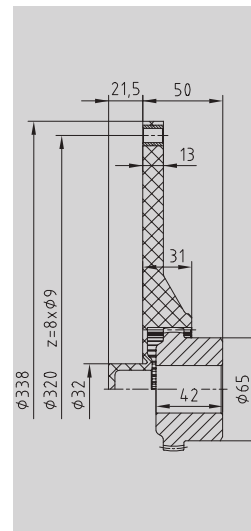
Fitting to:
VW
Mitsubishi
diesel engines



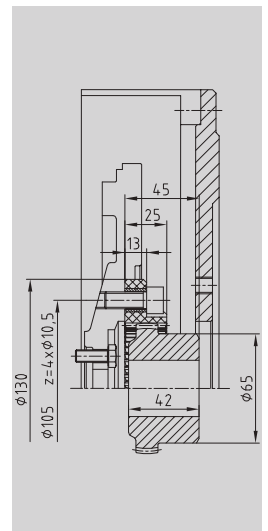
BoWex® 48 FLE-PA, Ø279
VW
028.B / M344



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



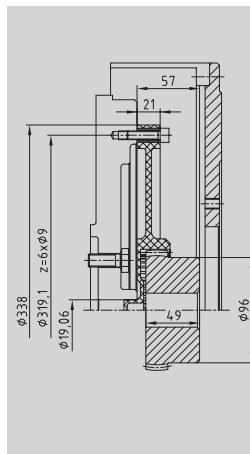
BoWex® 48 FLE-PA
Mitsubishi
Ø338-32



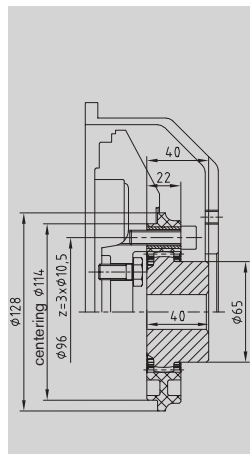
BoWex® 48 FLE-PA, Ø130
Mitsubishi
Series L / Series K

Coupling size
Engine type

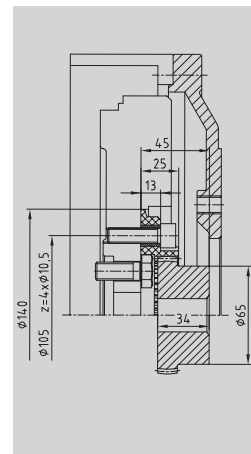
Fitting to:
Perkins
Lombardini
diesel engines



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

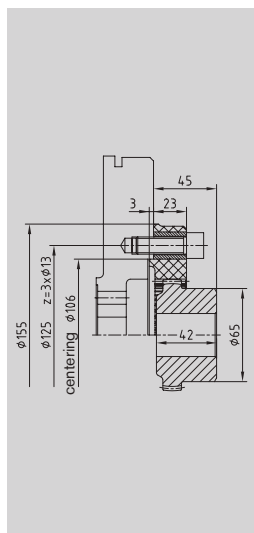
Coupling size
Engine type

BoWex® FLE-PA

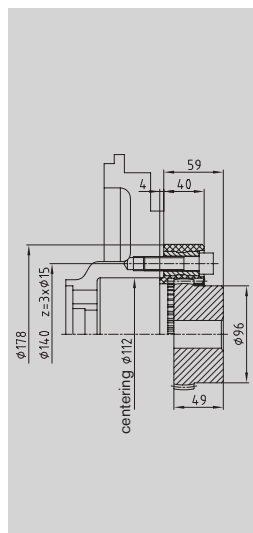
Torsionally rigid flange couplings

Special flange programme, deviations from the SAE standard

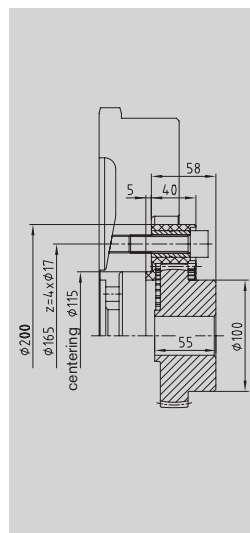
Fitting to:
Perkins
Isuzu
Cummins
diesel
engines



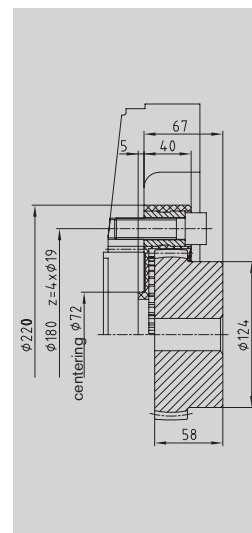
BoWex® 48 FLE-PA,
Ø 155
3 holes, Ø 125



BoWex® 65 FLE-PA,
Ø 178
3 holes, Ø 140

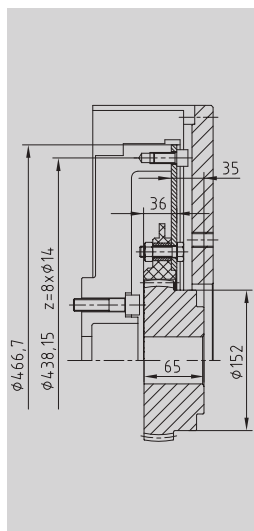


BoWex® 70 FLE-PA,
Ø 200
4 holes, Ø 165

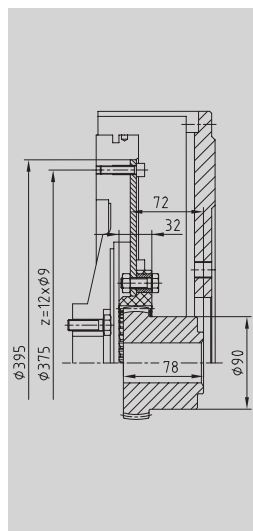


BoWex® 80 FLE-PA,
Ø 220
4 holes, Ø 180

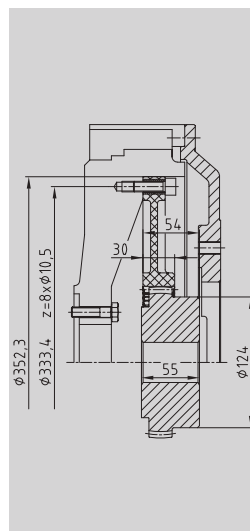
Fitting to:
Caterpillar
Daimler
Cummins
John-Deere
diesel engines



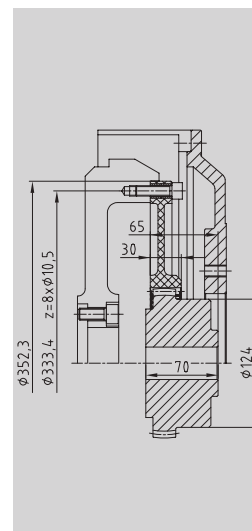
BoWex® T100 FLE-PA, 14"
Caterpillar
C 10 / C 12



BoWex® T65 FLE-PA, Ø395
Daimler
OM904

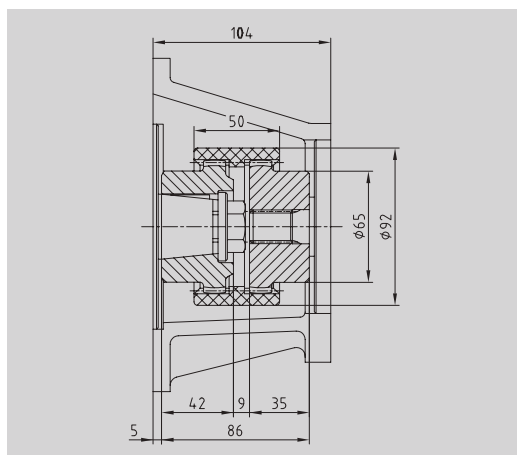


BoWex® 80 FLE-PA, 11 1/2"
Cummins
QSX/QSB

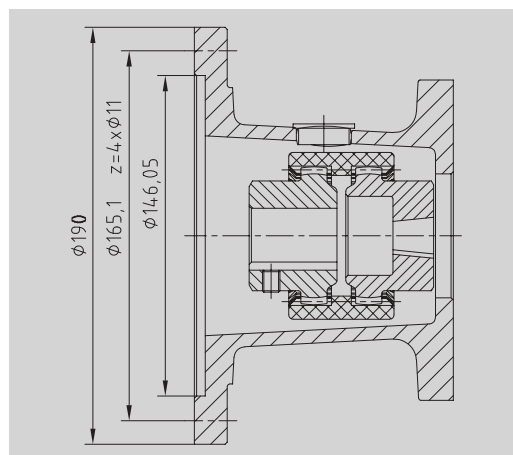


BoWex® 80 FLE-PA 11 1/2"
John Deere

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



BoWex® M42
Hatz 2G30



BoWex® shaft coupling type M28 and M32
Housing connection acc. to SAE J609A

Coupling size
Engine type

BoWex® FLE-PA

Torsionally rigid flange couplings and pump mounting flanges

Flange couplings and pump connection housings for KUBOTA engines

KUBOTA

Super MINI series

Z-400

Z-442-B

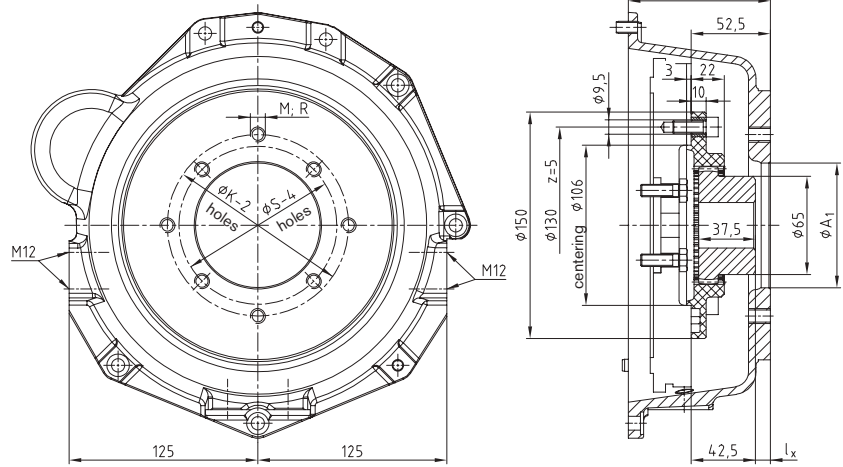
Z-482-B

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

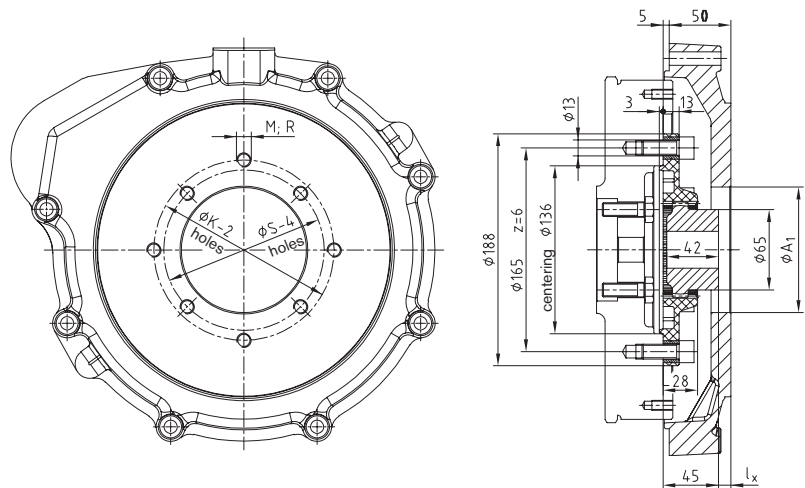
No. 190027991

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

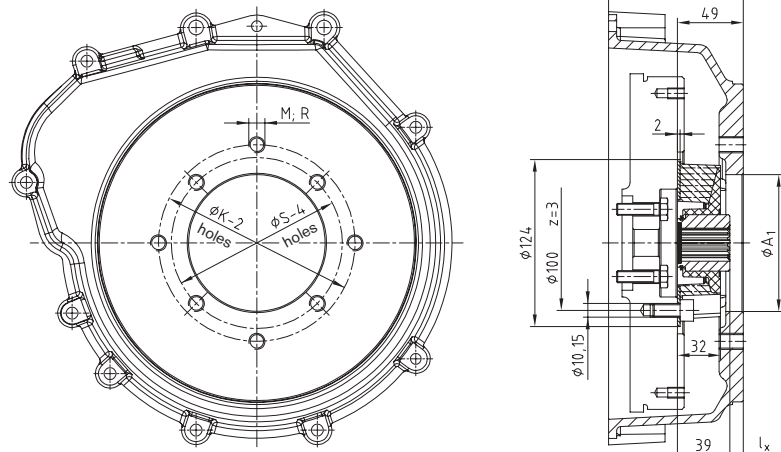
D 1105

D 1105-T

V 1205

V 1305

V 1505



MONOLASTIC® 28 Ø 124 / pump connection housings

BoWex® FLE-PA

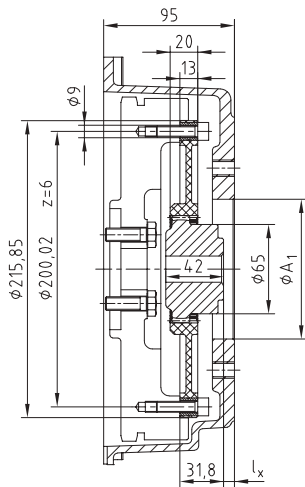
Torsionally rigid flange couplings and pump mounting flanges

Flange couplings and pump connection housings for Perkins engines

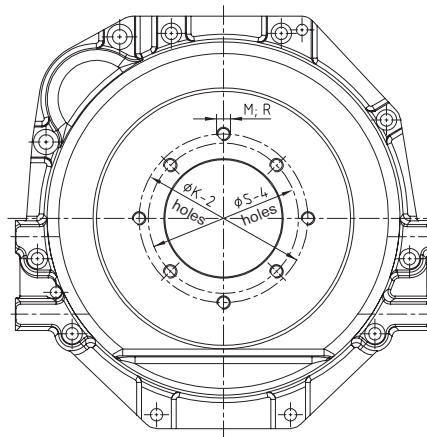
BoWex® FLE-PA/-PAC

BoWex-ELASTIC®

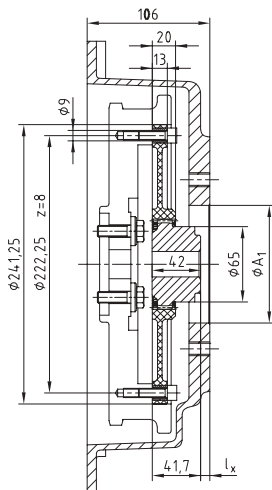
MONOLASTIC®



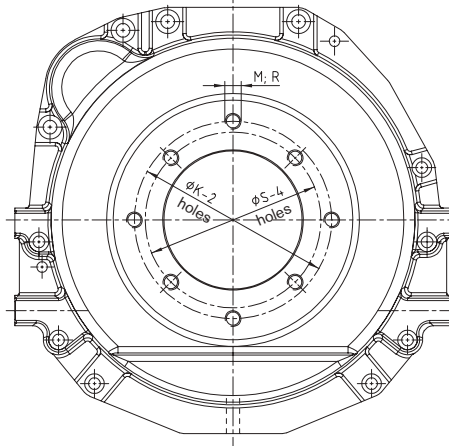
Perkins 403D - 10/11



Perkins 403D - 13/15

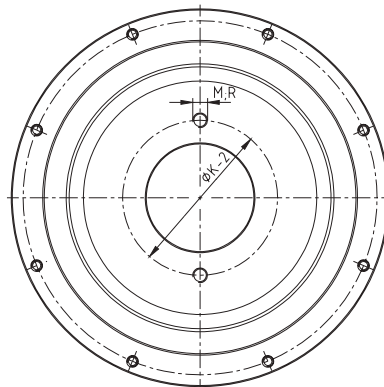


Perkins 404D - 20

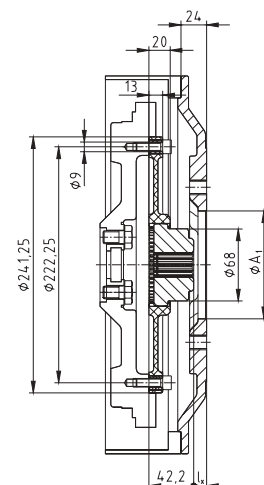


Perkins 404D - 22

Other selections on request for Yanmar Mitsubishi etc.



Mitsubishi SL Series



Yanmar TMV-Series

Torsionally rigid flange couplings and pump mounting flanges

Anbaukombination A

Anbaukombination B

Anbaukombination C

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

42

max. $\phi 42$

SAE A, B, C

$\phi 263,45$

$\phi 244,47$

$z = 6 \times \phi 10,5$

Anbaukombination D

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.
 $\phi 14$

$\phi 263,45$
 $\phi 244,47$ $z = 6 \times \phi 10,5$

50

$\phi 85$ SAE A, B, C

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	1	3	Zwischengehäuse (SAE-4)	0427 0980 KZ 0138-52 0417 1040 UA 0138-52	15	0553
-	-	1	1	2	Schwungrad (SAE 6 1/2") J= 0,499 kgm ²	0428 0586 KZ 0138-05 0417 1301 UA 0138-05	30,3	3174
1	1	-	-	1	Schwungrad (SAE 8 u.10") J= 0,405 kgm ²	0427 2426 KZ 0138-05 0417 1301 UA 0138-05	25,3	2461
D	C	B	A	Pos	Benennung	Nummer	G ^{kg/l}	Baus.-Nr.

[illegible][illegible]

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

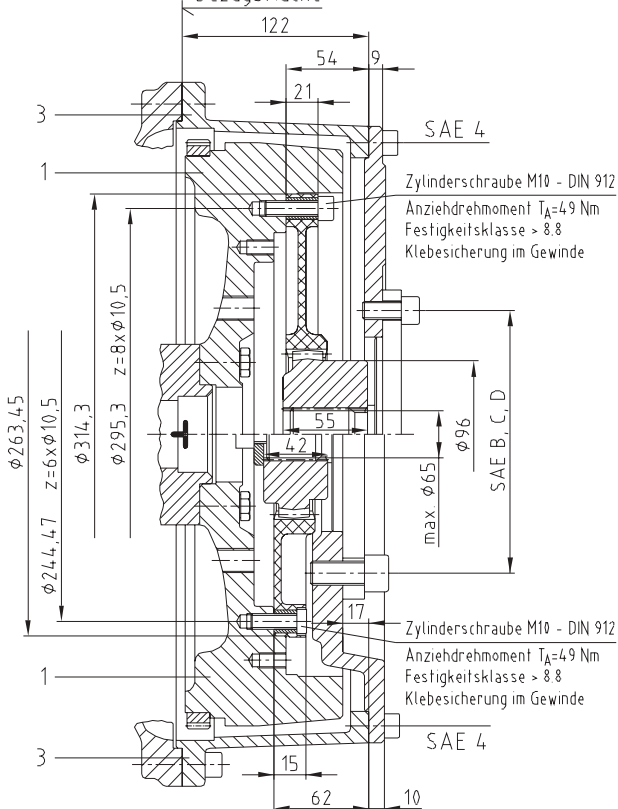
BoWex® FLE-PA/-PAC

BoWex-ELASTIC®

MONOLASTIC®

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

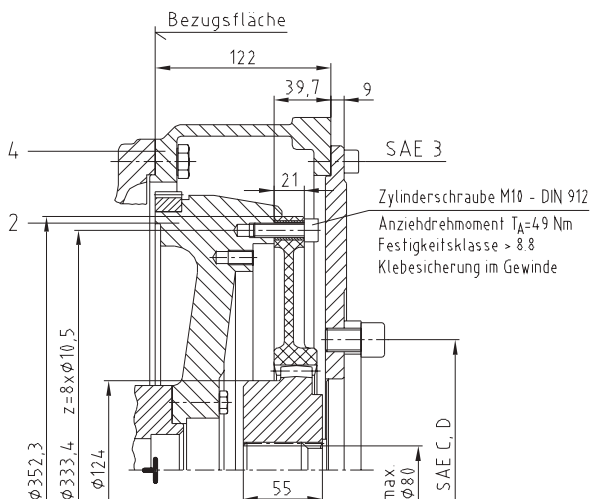
Bezugsfläche



BoWex® 65 FLE-PA 8"
SAE-4.2/-17 Pumpenanbauflansch

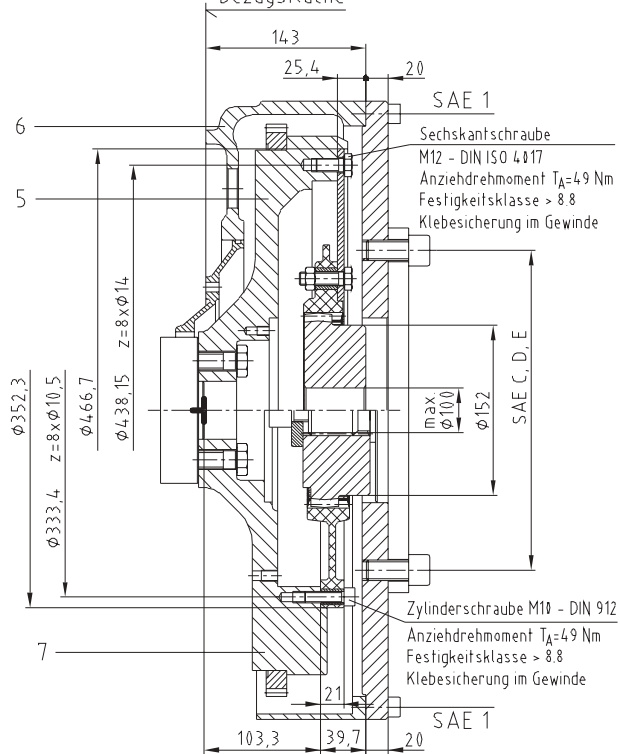
Anbaukombination C

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



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

Bezugsfläche



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

ACHTUNG: Entsprechend der Motorleistung ist die Kupplungsanordnung durch den Anwender zu prüfen. Nach erfolgtem Kupplungsanbau Kurbelwellenlängsspiel 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 Maßgaben und/oder Teile.

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

1	-	-	-	7	Schwungrad (SAE-11 1/2") J= 2,255 kgm ²		66,7	
1	1	-	-	6	Anschlußgehäuse (SAE-11)		45,6	
-	1	-	-	5	Schwungrad (SAE-14") J= 2,264 kgm ²		61,6	
-	-	1	-	4	Anschlußgehäuse (SAE-3)			
-	-	-	1	3	Anschlußgehäuse (SAE-4)			
-	-	1	-	2	Schwungrad (SAE-10 u. 11 1/2") J= 0,872 kgm ²			
-	-	-	1	1	Schwungrad (SAE-8 u. 10") J= 1,03 kgm ²			
E	D	C	B	A	Pos.	Benennung	Nummer	G _{kg} Baus.-Nr.
Anbau- kombination								

DEUTZ 1012 / 1013
siehe 0420 8900 UB 0130-97

BoWex-ELASTIC®

Highly flexible flange couplings

Technical data and displacements

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.	bei 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
	40 Sh*	130	390	39	20	6,5	–		550	0,6	10,5	142
	50 Sh*	150	450	45					850	0,8	7,9	219
	65 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
	40 Sh*	200	600	60	27	9	–		850	0,6	10,5	176
	50 Sh*	230	690	69					1300	0,8	7,9	269
	65 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
	40 Sh*	350	1050	105	45	15	–		1600	0,6	10,5	209
	50 Sh*	400	1200	120					2200	0,8	7,9	288
	65 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
	40 Sh*	430	1290	129	51	17	–		2350	0,6	10,5	259
	50 Sh*	500	1500	150					3000	0,8	7,9	346
	65 Sh*	620	1860	186					8500	1,2	5,2	975
GG65 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
	40 Sh*	750	2250	225	90	30	–		4500	0,6	10,5	351
	50 Sh*	950	2850	285					6500	0,8	7,9	507
	65 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
	40 Sh*	1250	3750	375	135	45	–		7500	0,6	10,5	476
	50 Sh*	1600	4800	480					12000	0,8	7,9	762
	65 Sh*	2000	6000	600					32000	1,2	5,2	2031
GG80 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
	40 Sh*	2000	6000	600	160	53	–		12000	0,6	10,5	366
	50 Sh*	2500	7500	750					19000	0,8	7,9	570
	65 Sh*	3200	9600	960					48000	1,2	5,2	1200
125 HE	T40 Sh	3000	9000	900	240	120	60	2300	19000	0,6	10,5	617
	T50 Sh	4000	12000	1200					30000	0,8	7,9	974
	T65 Sh	5000	15000	1500					75000	1,2	5,2	2434
	40 Sh*	3000	9000	900	180	60	–		19000	0,6	10,5	617
	50 Sh*	4000	12000	1200					30000	0,8	7,9	974
	70 Sh*	5000	15000	1500					75000	1,2	5,2	2434
G 125 HE	T40 Sh	4000	12000	1200	268	134	67	2250	30000	0,6	10,5	560
	T50 Sh	5200	16000	1600					44000	0,8	7,9	920
	T65 Sh	6500	20000	2000					110000	1,2	5,2	1915
	40 Sh*	4000	12000	1200	200	67	–		30000	0,6	10,5	560
	50 Sh*	5200	16000	1600					44000	0,8	7,9	920
	70 Sh*	6500	20000	2000					110000	1,2	5,2	1915
150 HE	T40 Sh	5500	16500	1650	300	150	75	1950	42000	0,6	10,5	714
	T50 Sh	7000	21000	2100				2050	0,8	7,9	1200	
	T65 Sh	9000	27000	2700				2200	1,2	5,2	2500	
G 150 HE	T40 Sh	7000	21000	2100	320	160	80	1900	60000	0,6	10,5	1485
	T50 Sh	9200	27600	2760				2000	0,8	7,9	2372	
	T65 Sh	11500	34500	3450				2100	1,2	5,2	5874	
200 HE	T40 Sh	9500	28500	2850	392	196	98	1700	85000	0,6	10,5	1720
	T50 Sh	12500	37500	3750				1800	0,8	7,9	2740	
	T65 Sh	16000	48000	4800				1900	1,2	5,2	6769	
200D HE	T40 Sh	19000	57000	5700	784	392	196	1700	170000	0,6	10,5	3440
	T50 Sh	25000	75000	7500				1800	0,8	7,9	5480	
	T65 Sh	32000	96000	9600				1900	1,2	5,2	13538	
G 200 HE	T40 Sh	11500	34500	3450	428	214	107	1600	105000	0,6	10,5	1952
	T50 Sh	15000	45000	4500				1700	0,8	7,9	3114	
	T65 Sh	19500	58500	5850				1800	1,2	5,2	7708	
G 200D HE	T40 Sh	23000	69000	6900	856	428	214	1600	210000	0,6	10,5	3904
	T50 Sh	30000	90000	9000				1700	0,8	7,9	6228	
	T65 Sh	39000	117000	11700				1800	1,2	5,2	15416	

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

* Expiring as a standard