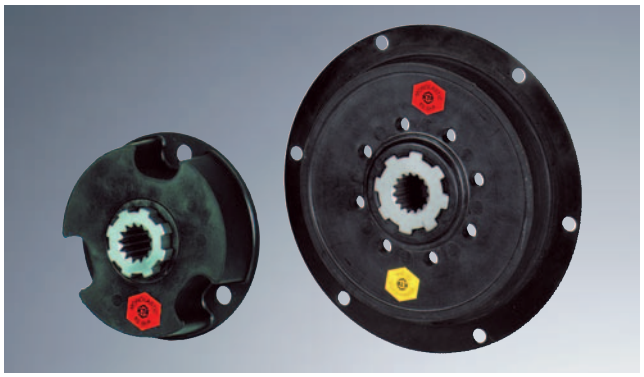
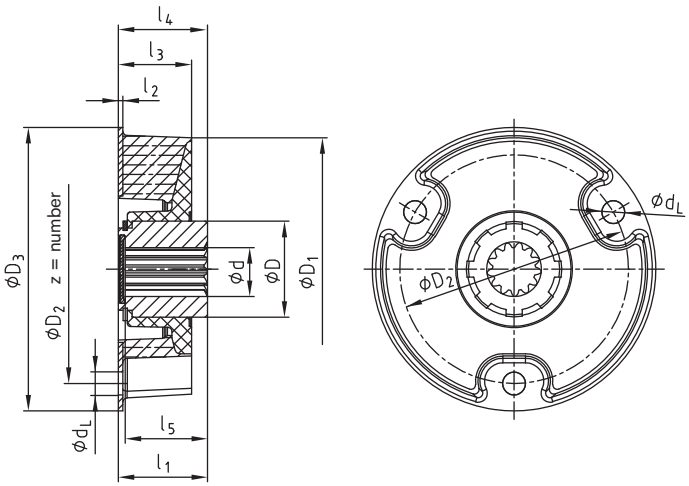
for I. C.-engines (EP 0853203/U.S. Patent 6,117,017)

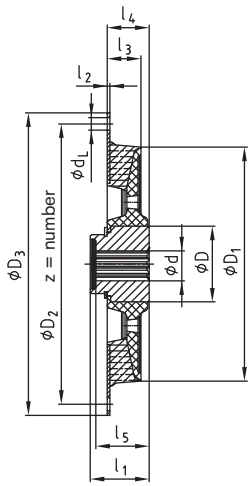


- MONOLASTIC® – for the drive of diesel engine/hydraulic pump up to 100 KW
- Single-part design with flange fastening by three bolts (sizes 28, 32, 50-140, 50-170)
- Flange connection according to SAE 6 ½" to 11 ½" (size 30, 50, 65)
- Easy assembly of coupling
- Axial plug-in in combination with the pump shaft
- Compensation for high radial and angular displacements
- Available for pump shafts according to SAE and DIN

Size 28, 32, 50-140, 50-170



Size 30, 50, 65



MONOLASTIC®																
Size	Elastomer hardness [Shore A]	Torque [Nm]			Dimension [mm]											
		T_{KN}	$T_{K\,max.}$	T_{KW}	d	D	D_1	D_2	z	d_L	D_3	L_1	L_2	L_3	L_4	L_5
28	65	70	175	35	25	42	115	100	3	10,10	124	40	2	32	40	38
	70	100	300	50												
32	65	160	400	80	32	50	140	125	3	12,10	150	42	2	42	43	38
	70	225	675	112												
50-140	70	260	650	130	32	50	167	140	3	14,10	175	46	3	35	46	43
50-170	70	300	750	150	32	50	175	170	3	16,15	200	46	3	35	46	43
30	65	160	400	80	25	42	120	SAE-connection 6 ½", 7 ½"				39	2	21	30	36
50	65	300	750	150	32	50	167	SAE-connection 6 ½", 7 ½", 8", 10"				42	2	24	30	38
65	65	600	1600	180	48	68	200	SAE-connection 10", 11 ½"				45	3	32	45	42

Technical data										
Size	Elastomer hardness [Shore A]	$C_{dyn.}$ 60°C [Nm/rad]	Perm. damping power with 60°C P_{KW} [W]	Permissible radial displacement with 2200 min^{-1} ΔK_r [mm]	Permissible angular displacement with 2200 min^{-1} ΔK_w [°]	Radial spring stiffness C_r [N/mm]	Mass moment of inertia [kgm^2]			Max. permissible operating speed n_{max} [min^{-1}]
							J_A		J_L	
28	65	900	15	0,6		300	0,00054		0,00033	6000
	70	1300		0,5		400				
32	65	1800	25	0,6		400	0,00120		0,00081	6000
	70	2400		0,5		500				
50-140	70	4200	35	0,5		1365	0,00210		0,00130	6000
50-170	70	5600	40	0,5	1	1550	0,00250		0,00130	6000
30	65	3750	25	0,6		1150	6,5"	0,0038	0,00030	6000
							7,5"	0,0057		
50	65	9000	35	0,6		1300	8"	0,0078	0,00120	6000
							10"	0,0153		
65	65	14000	45	0,6		1900	10"	0,0238	0,00380	6000
							11,5"	0,0368		

Applications - BoWex® FLE-PA, BoWex-ELASTIC® and MONOLASTIC®

Applications for BoWex® FLE-PA couplings and MONOLASIC®

wheel loaders	K 1,6
compact loaders	K 1,6
hydraulic excavators	K 1,4
mobile cranes	K 1,6
graders	K 1,5
vibration rollers	K 1,4
fork lift trucks	K 1,6
concrete mixer trucks	K 1,3
concrete pumps	K 1,4
asphalt finishers	K 1,4
concrete cutters	K 1,4
road mortisers	K 1,4

For a selection according to the engine driving torque T_{AN} a service factor K = 1,3 – 1,6 should be considered, depending on the load.

$$T_{KN} \geq T_{AN} \cdot K$$

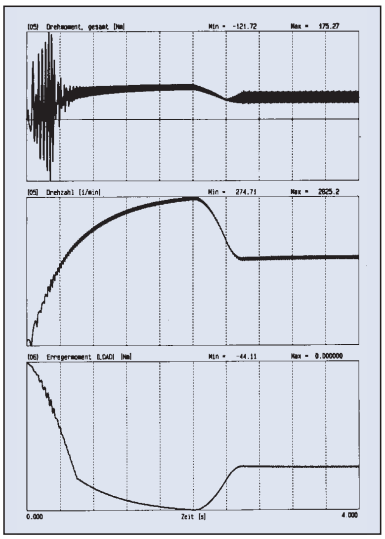
Applications for BoWex-ELASTIC® couplings

- screw compressors
- generators
- piston compressors
- splitterboxes
- suction pumps
- high-pressure pumps
- reversing gears
- sifting gears
- hydrodynamic converters

Coupling selection by means of torsional vibration calculation.

Additional Information

Use of PC with special software for coupling s-election



Application:
3-cylinder diesel engine - screw compressor

Use:
BoWex-ELASTIC®
42 HE - 50 Shore A

Calculation:
Acceleration
from 300 min^{-1}
to 2700 min^{-1}

KTR makes use of special simulation calculation programs for the coupling selection and the torsional vibration determination of the drive system.

This ensures a resonance-free operation of the machine, along with a safe, long-lasting operation of the drive components.
This is part of the usual KTR standard service.