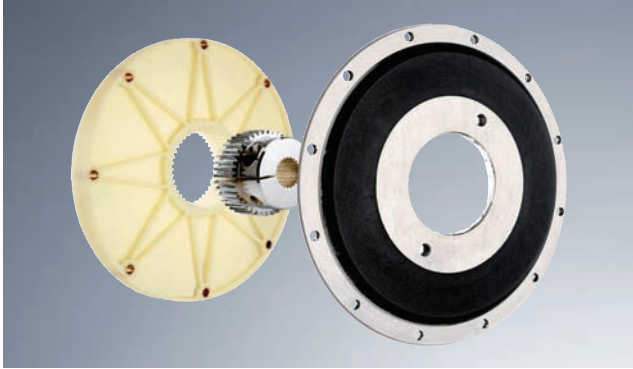
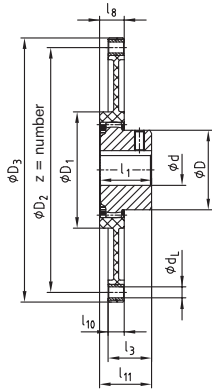


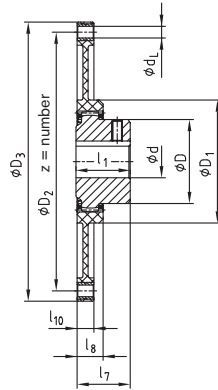
Design FLE-PA



- Flywheel flange couplings for low inertia applications
- Ideal for hydrostatic drives
- High torsional stiffness
- Reduced maintenance, blind assembly
- For applications up to + 266 °F



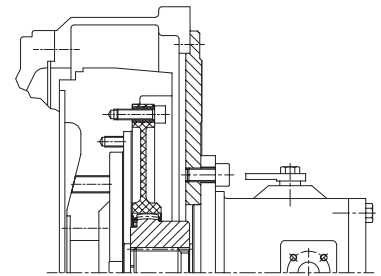
mounting short



mounting long

| Flange dimensions according to SAE J 620 [in] | | | | |
|---|----------------|----------------|---|----------------|
| Size | D ₃ | D ₂ | z | d _L |
| 6 1/2" | 8.500 | 7.875 | 6 | 0.35 |
| 7 1/2" | 9.500 | 8.750 | 8 | 0.35 |
| 8" | 10.375 | 9.625 | 6 | 0.43 |
| 10" | 12.375 | 11.625 | 8 | 0.43 |
| 11 1/2" | 13.875 | 13.125 | 8 | 0.43 |
| 14" | 18.375 | 17.250 | 8 | 0.55 |

Example of an installation



BoWex® FLE-PA for diesel engines with SAE connection; mounting hub with end plate and bolt.

| BoWex®-FLE-PA – Dimensions/Dimension to SAE | | | | | | | | | | | | | | | | | | | | | |
|---|-------|---------------|-------|-----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|--------|--------|------------------------------------|------------------------------------|-----|---------|-----|--------|--|------------------------------|
| Size | Bore | Finish bore d | | Dimensions [in] | | | | | | | | | | Special length l ₁ max. | Dimension to SAE (D ₃) | | | | | | Max. axial misalignment [in] |
| | | 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" | | | |
| 42 / 48 | - | 0.813 | 1.813 | 2.68 | 3.94 | 1.97 | 1.61 | 1.97 | 0.79 | 0.51 | 1.89 | 3.15 | ● | ● | ● | ● | | | ± .078 | | |
| T 48 | 0.512 | 0.813 | 1.813 | 2.68 | 3.94 | 1.97 | 1.50 | 1.77 | 0.79 | 0.51 | 1.81 | - | ● | ● | ● | ● | | | ± .039 | | |
| T 55 | 0.669 | 0.813 | 2.125 | 3.35 | 4.53 | 1.97 | 1.46 | 1.89 | 0.94 | 0.51 | 1.89 | - | ● | ● | ● | ● | | | ± .078 | | |
| 65 / T 65 | 1.102 | 1.188 | 2.500 | 3.78 | 5.20 | 2.17 | 1.77 | 2.13 | 1.06 | 0.83 | 2.01 | 2.76 | | | ● | ● | ● | | ± .078 | | |
| T 70 | 1.102 | 1.188 | 2.625 | 3.94 | 6.02 | 2.36 | 1.89 | 2.20 | 1.18 | 0.83 | 2.24 | - | | | | ● | | | ± .078 | | |
| 80 / T 80 | 1.220 | 1.438 | 3.000 | 4.88 | 6.69 | 3.54 | 3.07 | 3.43 | 1.18 | 0.83 | 3.43 | - | | | | | ● | | ± .078 | | |
| 100 / T 100 | 1.496 | 1.625 | 3.875 | 5.98 | 10.43 | 4.33 | 3.07 | 4.25 | 1.38 | 0.83 | 4.33 | - | | | | | ● | ● | ± .078 | | |
| 125 | 1.772 | 2.000 | 4.813 | 7.56 | 9.84 | 5.51 | 1.46 | 5.24 | 1.97 | 1.10 | 3.82 | - | | | | | ● | ● | ± .078 | | |

| Technical data of BoWex® FLE-PA – Torques/Weight/Mass moments of inertia/Torsion spring stiffness | | | | | | | | | | | | | | | | | | | |
|---|-------------------------------|---------------------|-----------------|---|----------------------|---------------------------------|--------|--------|--------|---------|--------|---|----------------------|----------------------|----------------------|-----------|--|--|--|
| Size | Torque T _K [lb-ft] | | | Weight / Mass moment of inertia J [lb-in-sec ²] | Hub with max. bore Ø | FLE-PA flanges according to SAE | | | | | | Dynamic torsion spring stiffness with + 140 °F / = 0.29 [lb-ft/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} | | | | |
| 42 / 48 | 177 | 443 | 89 | [lb] | 1.74 | 0.71 | 0.95 | 1.12 | 1.41 | | | | | | | | | | |
| | | | | [lb-in-sec ²] | 0.0062 | 0.0186 | 0.0310 | 0.0434 | 0.0752 | | | | 25,830 | 55,350 | 77,490 | 92,250 | | | |
| T 48 | 221 | 554 | 111 | [lb] | 1.74 | 0.71 | 0.95 | 1.12 | 1.41 | | | | | | | | | | |
| | | | | [lb-in-sec ²] | 0.0062 | 0.0186 | 0.0310 | 0.0434 | 0.0752 | | | | 29,520 | 63,468 | 88,560 | 105,534 | | | |
| T 55 | 332 | 830 | 166 | [lb] | 2.47 | 0.75 | 1.37 | 0.99 | 1.42 | | | | | | | | | | |
| | | | | [lb-in-sec ²] | 0.0142 | 0.0195 | 0.0469 | 0.0389 | 0.0761 | | | | 66,420 | 103,320 | 125,460 | 143,910 | | | |
| 65 | 480 | 1,181 | 240 | [lb] | 5.07 | | | 1.39 | 1.41 | 1.96 | | | | | | | | | |
| | | | | [lb-in-sec ²] | 0.0389 | | | 0.0566 | 0.0575 | 0.1062 | | | 81,180 | 118,080 | 147,600 | 169,740 | | | |
| T 65 | 590 | 1,476 | 295 | [lb] | 5.29 | | | 1.39 | 1.41 | 1.96 | | | | | | | | | |
| | | | | [lb-in-sec ²] | 0.0389 | | | 0.0566 | 0.0575 | 0.1062 | | | 95,940 | 140,220 | 177,120 | 206,640 | | | |
| T 70 | 738 | 1,845 | 369 | [lb] | 5.73 | | | | | 2.07 | | | | | | | | | |
| | | | | [lb-in-sec ²] | 0.0522 | | | | | 0.1168 | | | 169,740 | 254,610 | 324,720 | 381,546 | | | |
| 80 | 886 | 2,214 | 443 | [lb] | 11.5 | | | | | | 2.47 | | | | | | | | |
| | | | | [lb-in-sec ²] | 0.1337 | | | | | 0.1947 | | | 147,600 | 302,580 | 428,040 | 516,600 | | | |
| T 80 | 1,107 | 2,768 | 554 | [lb] | 11.5 | | | | | | 2.47 | | | | | | | | |
| | | | | [lb-in-sec ²] | 0.1337 | | | | | 0.1947 | | | 177,120 | 332,100 | 470,844 | 568,260 | | | |
| 100 | 1,513 | 3,801 | 756 | [lb] | 20.7 | | | | | | 2.56 | 18.6 | | | | | | | |
| | | | | [lb-in-sec ²] | 0.3549 | | | | | 0.1859 | 2.0711 | | 369,000 | 516,600 | 631,728 | 701,100 | | | |
| T 100 | 1,845 | 4,613 | 923 | [lb] | 20.7 | | | | | | 2.56 | 18.6 | | | | | | | |
| | | | | [lb-in-sec ²] | 0.3549 | | | | | 0.1859 | 2.0711 | | 442,800 | 612,540 | 708,480 | 789,660 | | | |
| 125 | 3,137 | 7,897 | 1,568 | [lb] | 43.5 | | | | | | 4.61 | 21.7 | | | | | | | |
| | | | | [lb-in-sec ²] | 1.2029 | | | | | 0.3806 | 2.7084 | | 3,099,600 | 3,690,000 | 4,132,800 | 4,575,600 | | | |