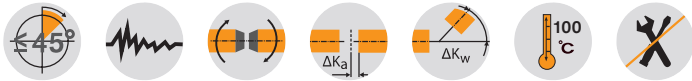


Cardan shaft connecting coupling



For legend of pictogram refer to flapper on the cover



| BoWex-ELASTIC® Type HEG1 and type HEG2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------------------------|-----|---------|-----|-----|---|----|----|----|-----|-----|-----|-----|----------------|------|-----|-----|-----|--|-----|-------|-----|----------------|----------------|----------------|----------------|------------------------------------|------------------------------------|------|-------------|------------------------|--|
| Size | Flywheel connection acc. to SAE-J620 | | | | | Metric flange connection HEG1 dimensions [mm] | | | | | | | | | | | | | MECHANICS cardan shaft connection HEG2 dimensions [mm] | | | | | | | | Dimensions [mm] | | | Weight [kg] | Mass moment of inertia | |
| | 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 | l ₂ | l ₃ | J _A [kgm ²] | J _L [kgm ²] | | | | |
| 48 ¹⁾ | ● | | | | | ● | ● | ● | | | | | | 8 | 58.5 | | | | | | | | | | 163 | 43.5 | 8 | 7 | 0.03 | 0.006 | | |
| | | ● | | | | ● | ● | ● | | | | | | 8 | 66 | ● | ● | ● | | | | | | 71 | 205 | 48.0 | 10 | 8 | 0.06 | 0.006 | | |
| G65 ¹⁾ | | ● | | | | | ● | ● | ● | ● | | | | 8 | 66 | ● | ● | ● | | | | | | 71 | 205 | 48.0 | 10 | 12 | 0.07 | 0.02 | | |
| | | | ● | | | | ● | ● | ● | ● | | | | 10 | 88.5 | ● | ● | ● | | | | | | 104 | 265 | 68.5 | 14 | 0.10 | 0.02 | | | |
| 80 ¹⁾ | | ● | | | | | ● | ● | ● | ● | | | | 10 | 88.5 | ● | ● | ● | | | | | | 104 | 265 | 68.5 | 12 | 0.17 | 0.06 | | | |
| | | | ● | | | | ● | ● | ● | ● | | | | 10 | 96 | | | ● | ● | | | | | 110 | 302 | 74.0 | 23 | 0.18 | 0.09 | | | |
| G80 ¹⁾ | | | | ● | | | ● | ● | ● | ● | | | | 10 | 96 | | | ● | ● | | | | | 110 | 302 | 74.0 | 12 | 0.48 | 0.09 | | | |
| | | | | ● | | | ● | ● | ● | ● | | | | 12 | 98 | | | | | ● | ● | | | 128 | 350 | 78.0 | 16 | 0.63 | 0.19 | | | |
| 100 ¹⁾ | | | | ● | | | ● | ● | ● | ● | | | | 12 | 98 | | | | | ● | ● | | | 128 | 350 | 78.0 | 18 | 0.74 | 0.42 | | | |
| | | | | ● | | | ● | ● | ● | ● | | | | 12 | 111 | | | | | ● | ● | | | 135 | 416 | 96.0 | 12 | 0.97 | 0.42 | | | |
| 125 ²⁾ | | | | ● | | | ● | ● | ● | ● | | | | 12 | 111 | | | | | ● | ● | | | 135 | 416 | 96.0 | 12 | 0.97 | 0.42 | | | |

¹⁾ For technical data see page 240
²⁾ For technical data see page 241

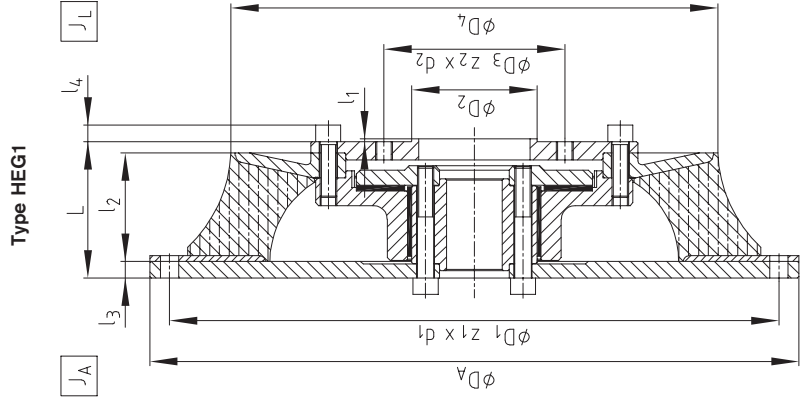
| Flywheel connection acc. to SAE-J620 | | | | |
|--------------------------------------|----------------|----------------|----------------|----------------|
| Size | D _A | D ₁ | z ₁ | d ₁ |
| 8" | 263.52 | 244.47 | 6 | 11 |
| 10" | 314.32 | 295.27 | 8 | 11 |
| 11 1/2" | 352.42 | 333.37 | 8 | 11 |
| 14" | 466.72 | 438.15 | 8 | 14 |
| 16" | 517.50 | 489.00 | 8 | 14 |

| Metric flange connection HEG1 [mm] | | | | | |
|------------------------------------|----------------|----------------|----------------|----------------|----------------|
| Size | D ₂ | l ₁ | 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 |

| MECHANICS cardan shaft connection HEG2 [mm] | | | | | | |
|---|----------------|----------------|----------------|----------------|----------------|----------------|
| Size | D ₅ | l ₅ | l ₆ | l ₇ | l ₈ | z ₃ |
| 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 | 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 generated in the coupling during the starting process and passing through resonance considerably.



Type HEG2

