## Metal Bellows Couplings RINGFEDER ${ }^{\circledR}$ GWB AK

Metal bellows coupling with inner conical hub


| Size | L | C | $\begin{gathered} \mathrm{d}_{1} ; \mathrm{d}_{2} \\ \min -\max \end{gathered}$ | B | $\mathrm{D}_{1}$ | $\mathrm{C}_{1}$ | $L_{1}$ | $\mathrm{L}_{4}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | mm | mm | mm | mm | mm | mm | mm | mm |
| 30 | 52/60 | 31 | 9-20 | 56 | 55 | 20 | 45/53 | 30/38 |
| 60 | 63/73 | 37 | 12-25 | 66 | 64 | 25 | 55/65 | 35/46 |
| 80 | 79/91 | 51 | 15-35 | 82 | 80 | 30 | 72/83 | 49/61 |
| 150 | 79/91 | 51 | 15-35 | 82 | 80 | 30 | 72/84 | 49/61 |
| 200 | 80/93 | 51/56 | 15-42 | 90 | 90 | 30 | 72/85 | 50/63 |
| 300 | 93/104 | 62/75 | 15-50 | 110 | 110 | 33 | 80/93 | 56/67 |
| 500 | 102/113 | 75/80 | 24-55 | 122 | 119 | 38 | 94/105 | 61/72 |
| 800 | 170 | 92/100 | 30-70 | 157 | 140 | 60 | 150 | 110 |
| 1400 | 170 | 92/100 | 35-70 | 157 | 140 | 60 | 150 | 110 |
| 3000 | 191 | 100/125 | 50-80 | 199 | 180 | 60 | 171 | 131 |
| 5000 | 199 | 100/125 | 60-90 | 250 | 230 | 65 | 179 | 139 |

Transmission of the couplings transmissible torque T can not longer be guaranteed for
certain with borings < dmin. Types with borings < dmin, however, can be supplied.

Moment of inertia and weight (mass) are calculated with reference to the largest bore size.

| Size | T | $\mathrm{n}_{\max }$ | $\mathrm{C}_{\text {Tdyn }}$ | $\mathrm{C}_{\mathrm{r}}$ | $\mathrm{Ca}_{\text {a }}$ | $\Delta \mathrm{K}_{\mathrm{a}}$ | $\Delta \mathrm{K}_{\mathrm{w}}$ | $\Delta \mathrm{K}_{\mathrm{r}}$ | J | $\mathrm{D}_{\mathrm{G} 1}$ | $\mathrm{T}_{\text {A1 }}$ | Gw |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Nm | 1/min | $10^{3} \mathrm{Nm} / \mathrm{rad}$ | N/mm | N/mm | mm | degree | mm | $10^{-3} \mathrm{kgm}^{2}$ | mm | Nm | kg |
| 30 | 36 | 11000 | 35/25 | 720/220 | 50/30 | 0,4/0,5 | 1,0/1,5 | 0,1/0,2 | 0,15 | $6 \times \mathrm{M} 4$ | 3 | 0,281 |
| 60 | 72 | 9100 | 75/50 | 1100/330 | 90/55 | 0,4/0,5 | 1,0/1,5 | 0,1/0,2 | 0,24 | $6 \times \mathrm{M6}$ | 8,5 | 0,482 |
| 80 | 96 | 7000 | 130/75 | 1200/400 | 80/55 | 0,4/0,5 | 1,0/1,5 | 0,2 | 0,65 | $6 \times \mathrm{M6}$ | 10 | 0,846 |
| 150 | 180 | 7000 | 150/100 | 2000/600 | 150/85 | 0,4/0,5 | 1,0/1,5 | 0,2 | 0,65 | $6 \times \mathrm{M6}$ | 14 | 0,846 |
| 200 | 240 | 6700 | 170/120 | 2500/450 | 150/85 | 0,4/0,5 | 1,0/1,5 | 0,2 | 0,87 | $6 \times \mathrm{M6}$ | 14 | 1,005 |
| 300 | 360 | 5200 | 318/500/280 | 6300/1500 | 235/280/150 | 0,4/0,5 | 1,0/1,5 | 0,2 | 2,33 | $6 \times \mathrm{M8}$ | 18 | 1,915 |
| 500 | 600 | 4600 | 680/310 | 8800/1000 | 100/85 | 0,5/1,0 | 1,0/1,5 | 0,2 | 5,73 | $6 \times \mathrm{M8}$ | 26 | 2,448 |
| 800 | 800 | 3700 | 760 | 510 | 190 | 1,0 | 1,5 | 0,2 | 26,10 | $6 \times \mathrm{M} 16$ | 50 | 9,978 |
| 1400 | 1400 | 3700 | 1300 | 710 | 280 | 1,0 | 1,5 | 0,2 | 26,10 | $6 \times \mathrm{M} 16$ | 80 | 9,202 |
| 3000 | 3000 | 2800 | 2800 | 8060 | 880 | 1,0 | 1,5 | 0,2 | 86,83 | $6 \times \mathrm{M} 16$ | 130 | 14,57 |
| 5000 | 5000 | 2800 | 4800 | 9190 | 737 | 1,0 | 1,5 | 0,2 | 170,30 | $6 \times \mathrm{M} 16$ | 210 | 24,3 |

To continue see next page

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## Transmissible torque T [Nm]

| Size | ø9 | ¢10 | 012 | 014 | 915 | 918 | ø20 | ø24 | ø28 | ø32 | ø38 | ¢44 | ¢48 | ø50 | . 58 | Ф60 | Ф65 | 970 | 975 | ø80 | ø85 | ø90 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 30 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 60 | --- | --- | 72 | 72 | 72 | 72 | 72 | 72 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 80 | --- | --- | --- | --- | 96 | 96 | 96 | 96 | 96 | 96 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150 | --- | --- | --- | --- | 180 | 180 | 180 | 180 | 180 | 180 | --- | --- | -- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 200 | --- | --- | --- | --- | 240 | 240 | 240 | 240 | 240 | 240 | 240 | --- | --- | --- | --- | --- | --- | --- | --- | --- | -- | --- |
| 300 | --- | --- | --- | --- | 290 | 350 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 500 | --- | --- | --- | --- | --- | --- | --- | 600 | 600 | 600 | 600 | 600 | 600 | 600 | --- | --- | --- | --- | --- | --- | --- | --- |
| 800 | --- | --- | --- | --- | --- | -- | --- | --- | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | --- | --- | --- | --- |
| 1400 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 | -- | --- | --- | --- |
| 3000 | --- | --- | --- | --- | --- | --- | --- | -- | --- | --- | --- | --- | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | --- | --- |
| 5000 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 |

## Explanation



Ordering example

| Series/Size | Length | Bore diameter $d_{1}$ | Bore diameter $d_{2}$ | Further details |
| :---: | :---: | :---: | :---: | :---: |
| AK 150 | 79 | 30 | 35 | $*$ |

[^0]
[^0]:    * Stainless steel

