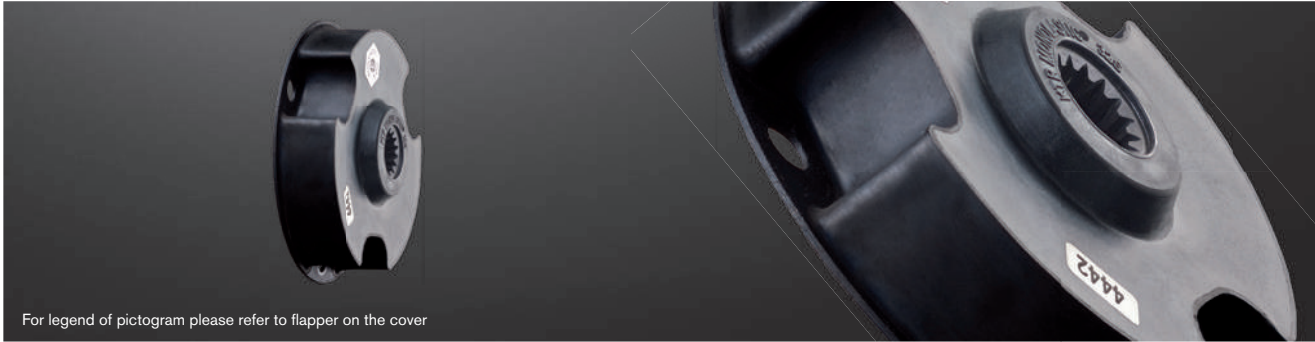


MONOLASTIC®

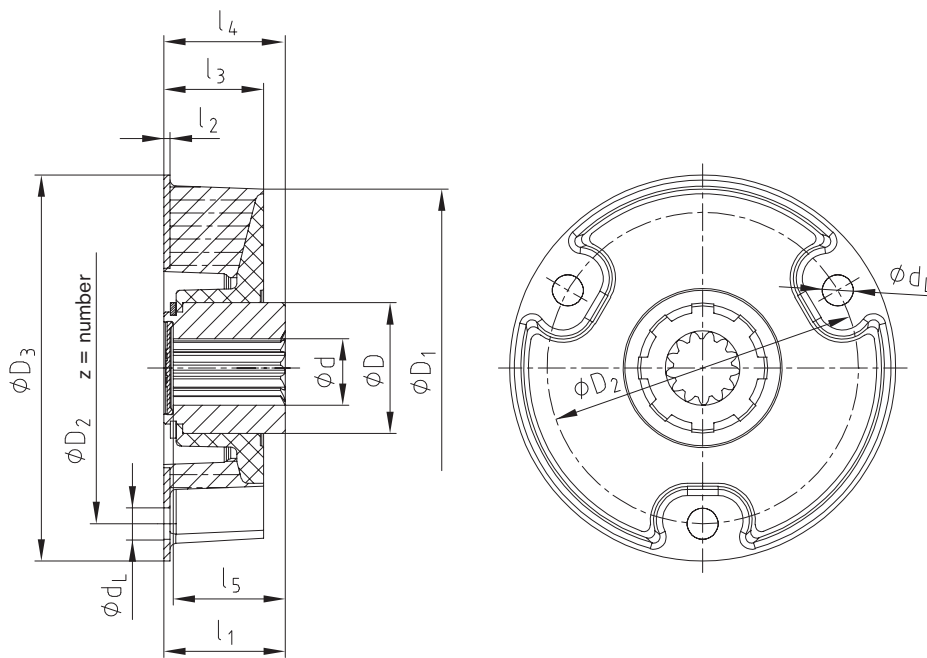
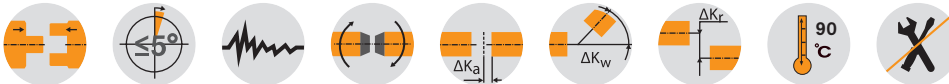
One-piece, flexible flange couplings



Type with 3 holes (EP 0853203/U.S. Patent 6,117,017)



For legend of pictogram please refer to flapper on the cover



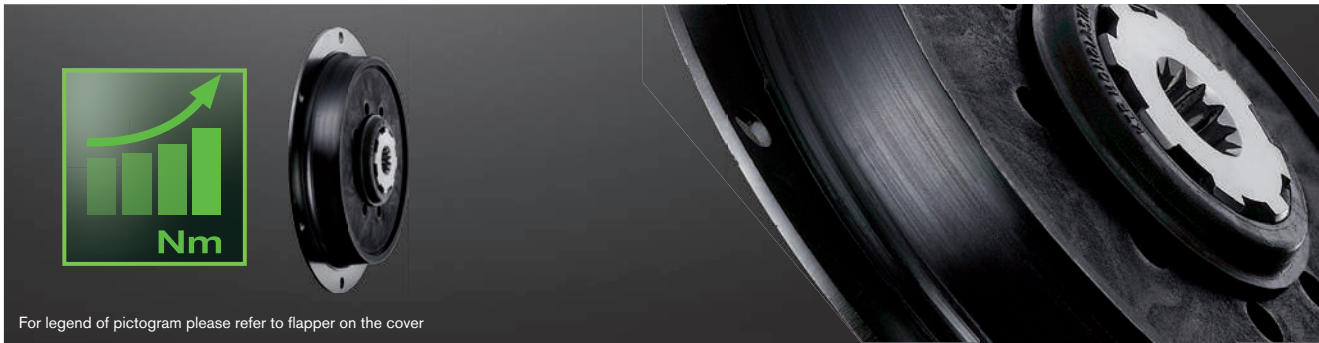
| MONOLASTIC® | | | | | | | | | | | | | | | | |
|-------------|------------------------------|-----------------|--------------------|-----------------|-----------------|----|----------------|----------------|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Size | Elastomer hardness [Shore A] | Torque [Nm] | | | Dimensions [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 |
| 22 | 65 | 40 | 100 | 20 | 20 | 34 | 93 | 80 | 3 | 8.10 | 100 | 33 | 1.5 | 32 | 34 | 30 |
| | 70 | 100 | 250 | 50 | 25 | 42 | 115 | 100 | 3 | 10.10 | 124 | 40 | 2 | 32 | 40 | 38 |
| 28 | 65 | 70 | 175 | 35 | 32 | 50 | 140 | 125 | 3 | 12.10 | 150 | 42 | 2 | 42 | 43 | 38 |
| | 70 | 225 | 562 | 112 | 32 | 50 | 175 | 165 | 3 | 16.15 | 200 | 46 | 3 | 35 | 46 | 43 |
| 32 | 65 | 160 | 400 | 80 | 32 | 50 | 175 | 170 | 3 | 16.15 | 200 | 46 | 3 | 35 | 46 | 43 |
| 50-140 | 70 | 260 | 650 | 130 | 32 | 50 | 175 | 165 | 3 | 16.15 | 205 | 50 | 3 | 40 | 55 | 46 |
| 50-165 | 70 | 300 | 750 | 150 | 48 | 68 | 191 | 165 | 3 | 16.15 | 205 | 50 | 3 | 40 | 55 | 46 |
| 50-170 | 70 | 300 | 750 | 150 | 32 | 50 | 175 | 170 | 3 | 16.15 | 200 | 46 | 3 | 35 | 46 | 43 |
| 60-165 | 70 | 400 | 1000 | 200 | 48 | 68 | 191 | 165 | 3 | 16.15 | 205 | 50 | 3 | 40 | 55 | 46 |

| Technical data | | | | | | | | | | |
|----------------|------------------------------|---------------------------------------|--|--|--|---|--|----------------|--|--|
| Size | Elastomer hardness [Shore A] | C _{dyn.} with 60 °C [Nm/rad] | Perm. damping power with 60 °C P _{KW} [W] | Max. displacement with 2200 rpm ΔK _r [mm] | Perm. angular displacement with 2200 rpm ΔK _w [°] | Radial spring stiffness C _r [N/mm] | Mass moment of inertia [kgm ²] | | Max. perm. operating speed n _{max.} [rpm] | |
| | | | | | | | J _A | J _L | | |
| 22 | 65 | 600 | 10 | 0.6 | | 200 | 0.00017 | 0.00010 | 6000 | |
| 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 | | 1 | 500 | | | | |
| 50-140 | 70 | 4200 | 35 | 0.5 | | 1365 | 0.00210 | 0.00130 | 6000 | |
| 50-165 | | 5600 | 40 | 0.5 | | 1550 | 0.00250 | 0.00130 | 6000 | |
| 50-170 | 70 | 7800 | 40 | 0.5 | | 1500 | 0.00599 | 0.00358 | 6000 | |

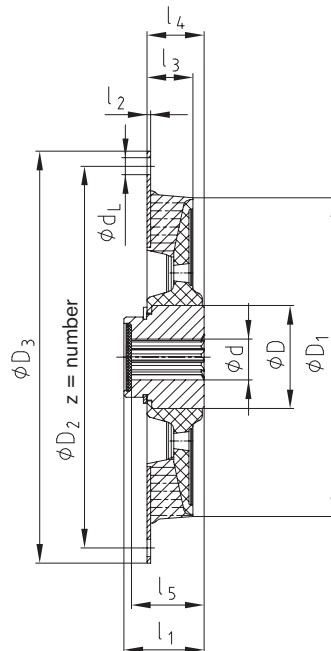
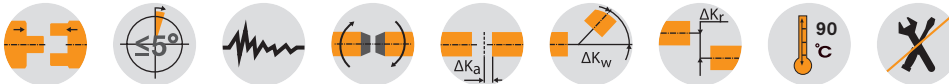
MONOLASTIC®

One-piece, flexible flange couplings

Type SAE (EP 0853203/U.S. Patent 6,117,017)



For legend of pictogram please refer to flapper on the cover



Flange dimensions according to SAE J620 [mm]

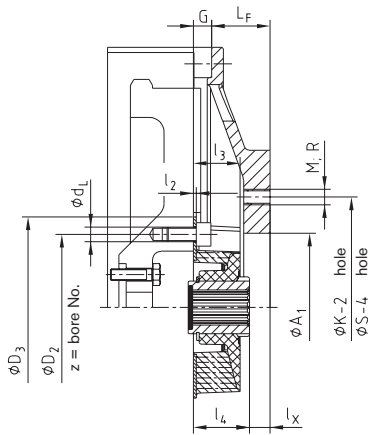
| Size | D ₃ | D ₂ | z | d _L |
|---------|----------------|----------------|---|----------------|
| 6 1/2" | 215.9 | 200.02 | 6 | 9 |
| 7 1/2" | 241.3 | 222.25 | 8 | 9 |
| 8" | 263.52 | 244.47 | 6 | 11 |
| 10" | 314.32 | 295.27 | 8 | 11 |
| 11 1/2" | 352.42 | 333.37 | 8 | 11 |

| MONOLASTIC® | | | | | | | | | | | | | | | | | |
|-------------|------------------------------|-----------------|--------------------|-----------------|-----------------|----|----------------|----------------|----------------|----------------|----------------|----------------|--------------------------------------|--------|----|-----|---------|
| Size | Elastomer hardness [Shore A] | Torque [Nm] | | | Dimensions [mm] | | | | | | | | MONOLASTIC® flanges according to SAE | | | | |
| | | T _{KN} | T _{K max} | T _{KW} | d | D | D ₁ | l ₁ | l ₂ | l ₃ | l ₄ | l ₅ | 6 1/2" | 7 1/2" | 8" | 10" | 11 1/2" |
| 30 | 65 | 200 | 400 | 100 | 25 | 42 | 120 | 39 | 2 | 21 | 30 | 36 | X | X | | | |
| | 70 | 250 | 500 | 125 | | | | | | | | | | | | | |
| 50 | 65 | 350 | 700 | 175 | 32 | 50 | 167 | 42 | 2 | 24 | 30 | 38 | X | X | X | X | |
| | 70 | 450 | 900 | 225 | | | | | | | | | | | | | |
| G50 | 70 | 600 | 1200 | 300 | 32 | 50 | 178 | 42 | 2 | 24 | 36 | 38 | | X | X | X | |
| 65 | 65 | 750 | 1500 | 375 | 48 | 68 | 200 | 45 | 3 | 32 | 45 | 42 | | | | X | X |
| | 70 | 1000 | 2000 | 500 | | | | | | | | | | | | | |
| 75 | 65 | 1500 | 3000 | 750 | 60 | 90 | 265 | 58 | 3 | 35 | 50 | 54 | | | | X | X |
| | 70 | 1850 | 3700 | 925 | | | | | | | | | | | | | |

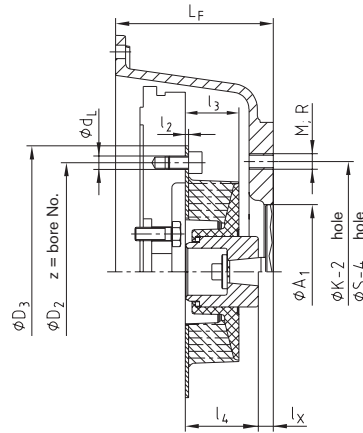
█ = Years of experience with applications at customer sites and additional test series in the KTR test field in Rheine enabled us to determine potentials allowing for an increase of the rated torques with some sizes of this series.

| Technical data | | | | | | | | | | |
|----------------|------------------------------|---------------------------------------|--|--|--|---|--|----------------|--|------|
| Size | Elastomer hardness [Shore A] | C _{dyn.} with 60 °C [Nm/rad] | Perm. damping power with 60 °C PKW [W] | Max. displacement with 2200 rpm ΔK _r [mm] | Perm. angular displacement with 2200 rpm ΔK _w [°] | Radial spring stiffness C _r [N/mm] | Mass moment of inertia [kgm ²] | | Max. perm. operating speed n _{max.} [rpm] | |
| | | | | | | | J _A | J _L | | |
| 30 | 65 | 3750 | 25 | 0.5 | 1 | 1150 | 6 1/2" | 0.0038 | 0.00030 | 6000 |
| | 70 | 4875 | | | | 1500 | 7 1/2" | 0.0057 | | |
| 50 | 65 | 9000 | 35 | 0.5 | 1 | 1300 | 8" | 0.0078 | 0.00120 | 6000 |
| | 70 | 12000 | | | | 1700 | 10" | 0.0153 | | |
| G50 | 70 | 17500 | 40 | 0.5 | 1 | 1910 | 7 1/2" | 0.0060 | 0.00120 | 6000 |
| | | | | | | | 8" | 0.0080 | | |
| | | | | | | | 10" | 0.0162 | | |
| 65 | 65 | 14000 | 45 | 0.5 | 1 | 1900 | 10" | 0.0238 | 0.00380 | 6000 |
| | 70 | 18000 | | | | 2450 | 11 1/2" | 0.0368 | | |
| 75 | 65 | 34000 | 80 | 0.5 | 1 | 1850 | 10" | 0.0272 | 0.01450 | 6000 |
| | 70 | 42000 | | | | 2400 | 11 1/2" | 0.0402 | | |

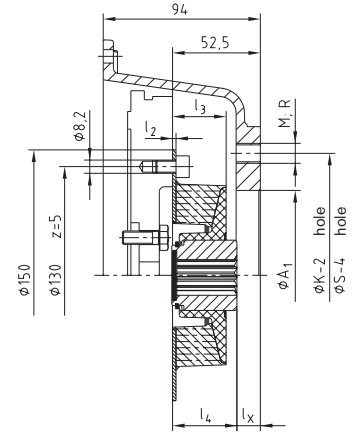
Examples of installation for type with 3 holes (EP 0853203/U.S. Patent 6,117,017)



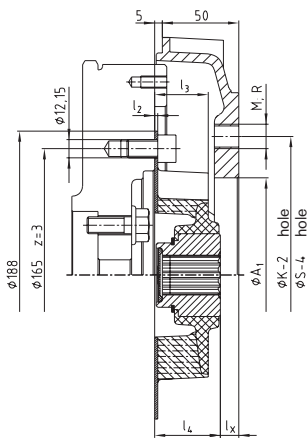
MONOLASTIC® 28
with spline shaft



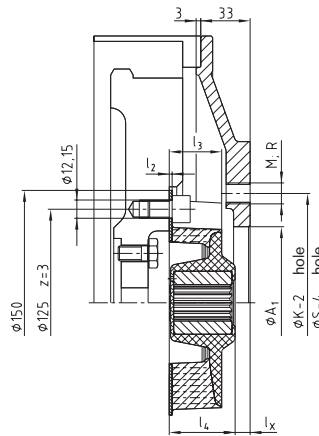
MONOLASTIC® 28
with taper shaft



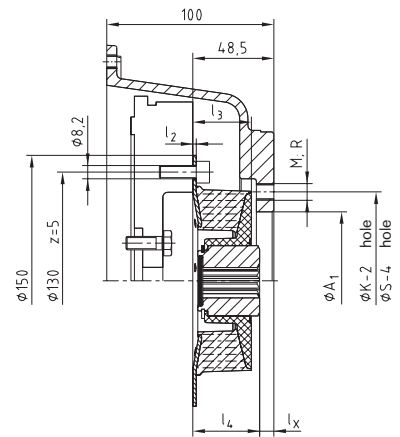
MONOLASTIC® 28
KUBOTA - Mini



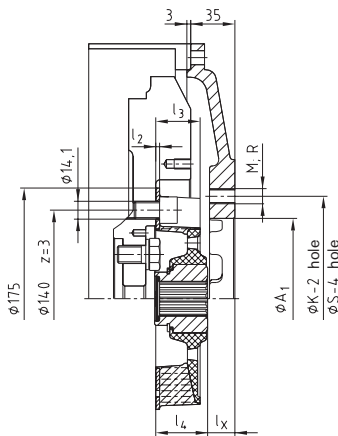
MONOLASTIC® 32 - 188
KUBOTA Super Three Series



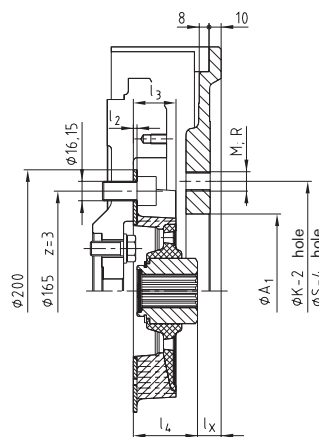
MONOLASTIC® 32 S



MONOLASTIC® 28
KUBOTA Super Mini



MONOLASTIC® 50 - 140



MONOLASTIC® 50 - 165

MONOLASTIC®

One-piece, flexible flange couplings

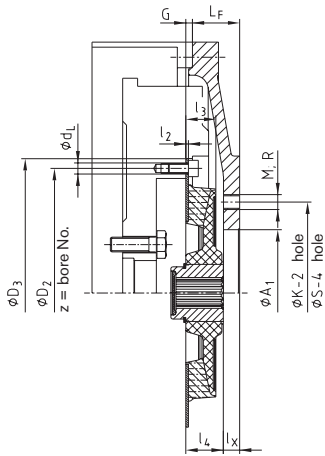
Examples of installation for SAE type (EP 0853203/U.S. Patent 6,117,017)

BoWex® FLE-PA/-PAC

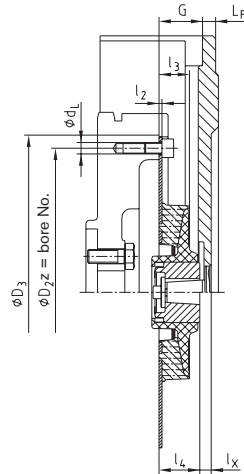
MONOLASTIC®

Flange couplings

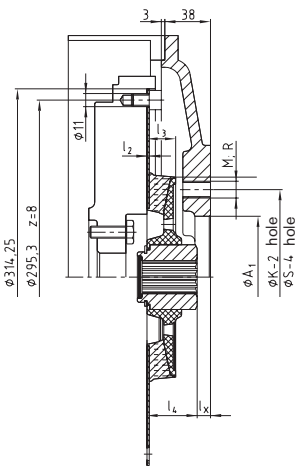
BoWex-ELASTIC®



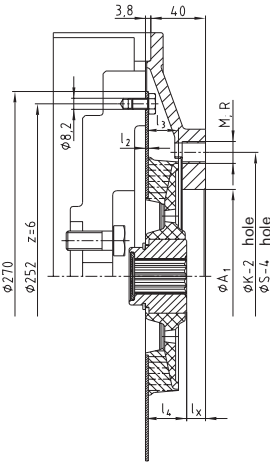
MONOLASTIC® 30
with spline shaft



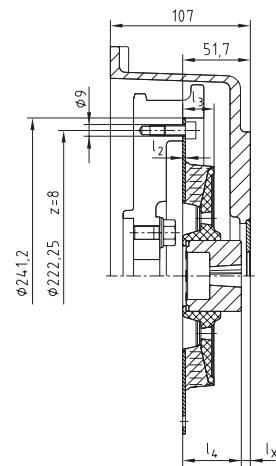
MONOLASTIC® 30
with taper shaft



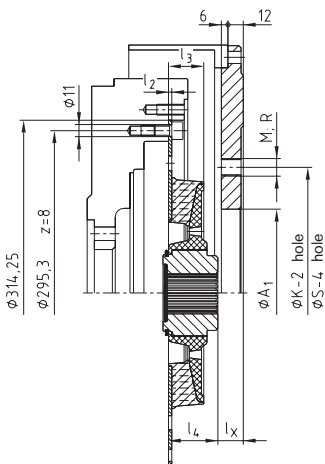
MONOLASTIC® 50 - 10"



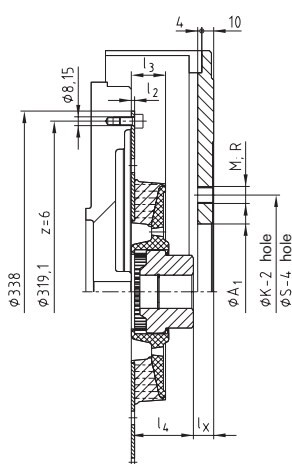
MONOLASTIC® 50 - 270
KUBOTA engine
D1803, V2403, V2403T



MONOLASTIC® 50
Perkins engine
403-13/403-15



MONOLASTIC® 65 - 10"



MONOLASTIC® 65 / T48

Morskate®



Any questions? Please contact us.

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