American Gear Manufacturers Association

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ERRATA

ANSI/AGMA 9003-C17

July 2022

The following editorial correction will be added to the next edition of ANSI/AGMA 9003-C17, *Flexible Couplings – Keyless Fits* (published December 2017).

The changes, discovered after publication, have been reviewed and approved by the Chairperson of the AGMA Flexible Couplings committee.

Equation A.15 should be corrected as shown, to remove the "0" before the "w".

~~$\sigma_{Rv} = 0w$~~ (A.15)

$\sigma_{Rv} = w$ (A.15)

Equation D.1 should be corrected as shown, to replace "92 000" with "920 000".

$$p_{min} = \frac{2T}{\pi D_b^2 L \mu} = \frac{2(\text{~~92000~~})}{\pi(6.341)^2(6.100)(0.15)} = 15920 \text{ psi} \quad \text{(D.1)}$$

$$p_{min} = \frac{2T}{\pi D_b^2 L \mu} = \frac{2(920000)}{\pi(6.341)^2(6.100)(0.15)} = 15920 \text{ psi} \quad \text{(D.1)}$$

Equation D.12 should be corrected as shown, to replace "0.650^2" with "6.341".

$$\sigma_H = \frac{E(I_{max} - I_c)(1 + C_e^2)}{2D_b} = \frac{(30 \times 10^6)(0.016 - 0.00333)(1 + 0.650^2)}{(2)(\text{~~0.650 2~~})} = 42649 \text{ psi} \quad \text{(D.12)}$$

$$\sigma_H = \frac{E(I_{max} - I_c)(1 + C_e^2)}{2D_b} = \frac{(30 \times 10^6)(0.016 - 0.00333)(1 + 0.650^2)}{(2)(6.341)} = 42649 \text{ psi} \quad \text{(D.12)}$$

Equation D.14 should be corrected as shown to add a negative sign in front of the number "17 295".

$$\sigma_R = \frac{-E(I_{max} - I_c)(1 - C_e^2)}{2D_b} = \frac{-(30 \times 10^6)(0.016 - 0.00333)(1 - 0.650^2)}{(2)(6.341)} = \text{~~17295~~ psi} \quad \text{(D.14)}$$

$$\sigma_R = \frac{-E(I_{max} - I_c)(1 - C_e^2)}{2D_b} = \frac{-(30 \times 10^6)(0.016 - 0.00333)(1 - 0.650^2)}{(2)(6.341)} = -17295 \text{ psi} \quad \text{(D.14)}$$

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ANSI/AGMA 9103-C17

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The following editorial correction will be added to the next edition of ANSI/AGMA 9103-C17, *Flexible Couplings – Keyless Fits (Metric Edition)* (published December 2017).

The changes, discovered after publication, have been reviewed and approved by the Chairperson of the AGMA Flexible Couplings committee.

Equation A.3 should be corrected as shown, to square the "D_o" symbol.

$$\frac{I}{p} = \frac{\cancel{D_o}\ \cancel{D_b}}{103500\left(D_o^2 - D_b^2\right)} \qquad \text{(A.3)}$$

$$\frac{I}{p} = \frac{D_b D_o^2}{103500\left(D_o^2 - D_b^2\right)} \qquad \text{(A.3)}$$

Equation D.11 should be corrected as shown, to replace the "+" sign before (293 + 120.5) (−121.2 + 0) with a "−" sign.

$$\sigma_{rot} = \sqrt{\left[\left(\sigma_H + \sigma_v\right)^2 + \left(\sigma_R + \sigma_{Rv}\right)^2 - \left(\sigma_H + \sigma_v\right)\left(\sigma_R + \sigma_{Rv}\right)\right]}$$
$$= \sqrt{\left(293 + 120.5\right)^2 + \left(-121.2 + 0\right)^2 + \left(293 + 120.5\right)\left(-121.2 + 0\right)} = 486 \text{ MPa} \qquad \text{(D.11)}$$

$$\sigma_{rot} = \sqrt{\left[\left(\sigma_H + \sigma_v\right)^2 + \left(\sigma_R + \sigma_{Rv}\right)^2 - \left(\sigma_H + \sigma_v\right)\left(\sigma_R + \sigma_{Rv}\right)\right]}$$
$$= \sqrt{\left(293 + 120.5\right)^2 + \left(-121.2 + 0\right)^2 - \left(293 + 120.5\right)\left(-121.2 + 0\right)} = 486 \text{ MPa} \qquad \text{(D.11)}$$