Proposed Errata in 2017 Section I, Figure PG-31, illustration (s)

Figure PG-31, illustration (s): $C = 0.33$ for circular beveled plates having a diameter, $d$, not exceeding 18 in. (450 mm) inserted into a shell, pipe, or header, the end of which is crimped over at least 30 deg, but not more than 45 deg, and when the undercutting for seating leaves at least 80% of the shell thickness. The beveling shall be not less than 75% of the head thickness. The crimping shall be done when the entire circumference of the cylinder is uniformly heated to the proper forging temperature for the material used. For this construction, the ratio $t_s/d$ shall be not less than the ratio $P/S$ nor less than 0.05. The maximum allowable working pressure for this construction shall not exceed $P = S/5 \cdot d$ ($P = 5 \cdot S / d$).

For example, let $S = 20,000$ psi (137.895 N/mm$^2$) and $d = 10$ in. (254 mm)

For Customary units: $P = 20,000 / (5 \cdot 10) = 400$ psig ($2.758$ N/mm$^2$)

For SI units: $P = 5 \cdot (137.895) / 254 = 2.714$ N/mm$^2$ ($394$ psig)