



# Design Solutions Guide

 **BASF**

The Chemical Company

OF WELD

$$w = l$$

$$y_{max} = \frac{c}{2}$$

$$\sigma_{max} = \frac{M}{I} y_{max}$$

MIN. LEAD-IN .020 in

SLIP FIT

$$I = \frac{6b^3}{12} = \frac{(.20in)(.25in)^3}{12}$$

$$= 2.6 \times 10^{-4} in^4$$

$$= Fd$$

$$= (10lb)(2 in)$$

$$= 20 in-lb$$

$$= \frac{b}{2}$$

$$= 0.125 in$$

$Bwb^2$

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