

design Poess, =
$$\rho = 1.05 \times 10^6 Pa$$

Vescel Thickness

$$t_{\gamma} = \frac{\rho \, 0_{\circ}}{2fJ + \rho} = \frac{1.05 \times 10^{6} \times 1.2}{2 \times 120 \times 10^{6} \times 1.85 + 10^{6}}$$

=
$$\frac{1.2}{(2 \times 120 \times .85) + 1}$$
 $\approx \frac{6.146}{1.20} \text{ mm} = t_T$

Nozzle Thickness

$$d_{v} = 0.25$$

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$$\frac{t_{v}^{1}}{2} = \frac{1.05 \times 10^{6} \times 0.25}{2 \times 120 \times 10^{6} \times .85 + 10^{6}}$$

$$d = (0.25 - 2 \times 0.005)$$

$$= (0.25 - 0.01) = 0.24 m = d$$

$$A = (d + 2t_0) t_r$$

$$= 1.4996 \times 10^{-3} \text{ m}^2$$

Area available from shell for reinforcement

Area available from nozzle for reinforcement

$$= \int (0.24 + 2 \times 1002) (0.005 - 0.002)$$

which is > actual length of nozzle above surface

Area left to be compensented

$$A - (A_3 + A_n) = 1.2967 \times 10^{-3} \text{ m}^2$$

Ring Pad Dimensions