Solution 25, p. 64:

The solution should read as follows:

25.　Refer to the Cylindrical Pressure Vessel section in the Mechanics of Materials chapter of the *FE Reference Handbook*.
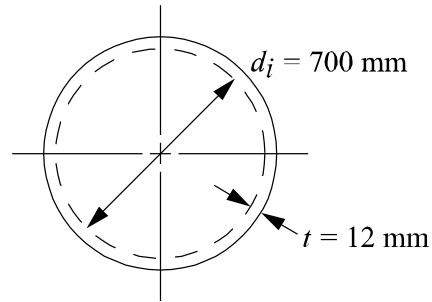
The cylinder can be considered thin-walled if $\dfrac{t}{\dfrac{d_i}{2}} \leq 0.10.$ In this case, $t = 12$ mm and $d_i = 700$ mm.

Since $\dfrac{t}{\dfrac{d_i}{2}} = \dfrac{12}{350} = 0.034$ which is ≤ 0.10, the pipe is thin-walled.

Thus $\sigma_t = \dfrac{P_i r}{t}$

where $r = \dfrac{r_i + r_o}{2} = \dfrac{350 + 362}{2} = 356$ mm

$\sigma_t = \dfrac{(1.680 \text{ MPa})(356 \text{ mm})}{12 \text{ mm}} = 49.8$ MPa

$d_i = 700$ mm

$t = 12$ mm

THE CORRECT ANSWER IS: B