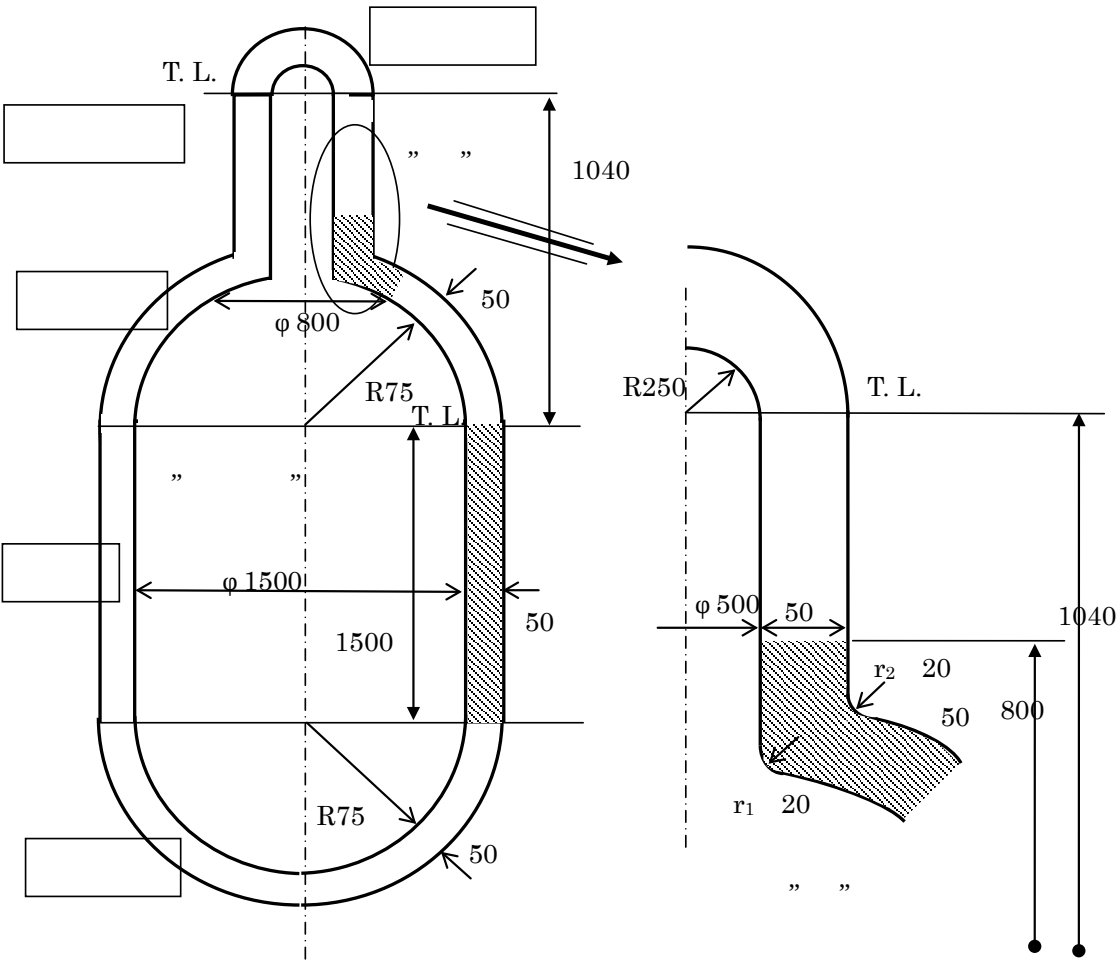


問題 1 - 1 0 圧力容器の構造最適化

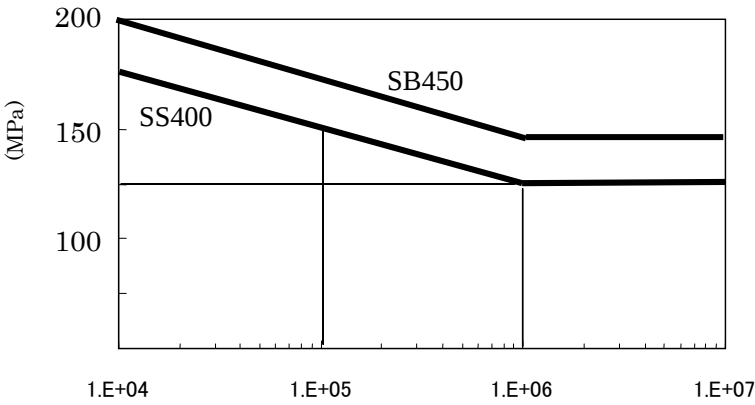
P=10MPa

SB450

Mises



	E		σ_Y	σ_B	
SB450	205[GPa]	0.3	250[MPa]	450[MPa]	SN



$$\sigma_{\theta} = -Pr/t \quad \alpha = -p.64 \quad (r: t)$$

$$(1-\nu/2)*a^2/t*P/E \quad (a) = 0.466$$

$$\sigma = (0, \sigma_t - \sigma_t) \quad \alpha = -p.68 \quad \sigma_t = Pr/2t \quad (r: t)$$

$$\sigma*a*(1-\nu)/E \quad (a) = 0.192$$

$$750*10/50 = 150 \text{ MPa}$$

$$750/*1050/2 = 75 \text{ MPa}$$