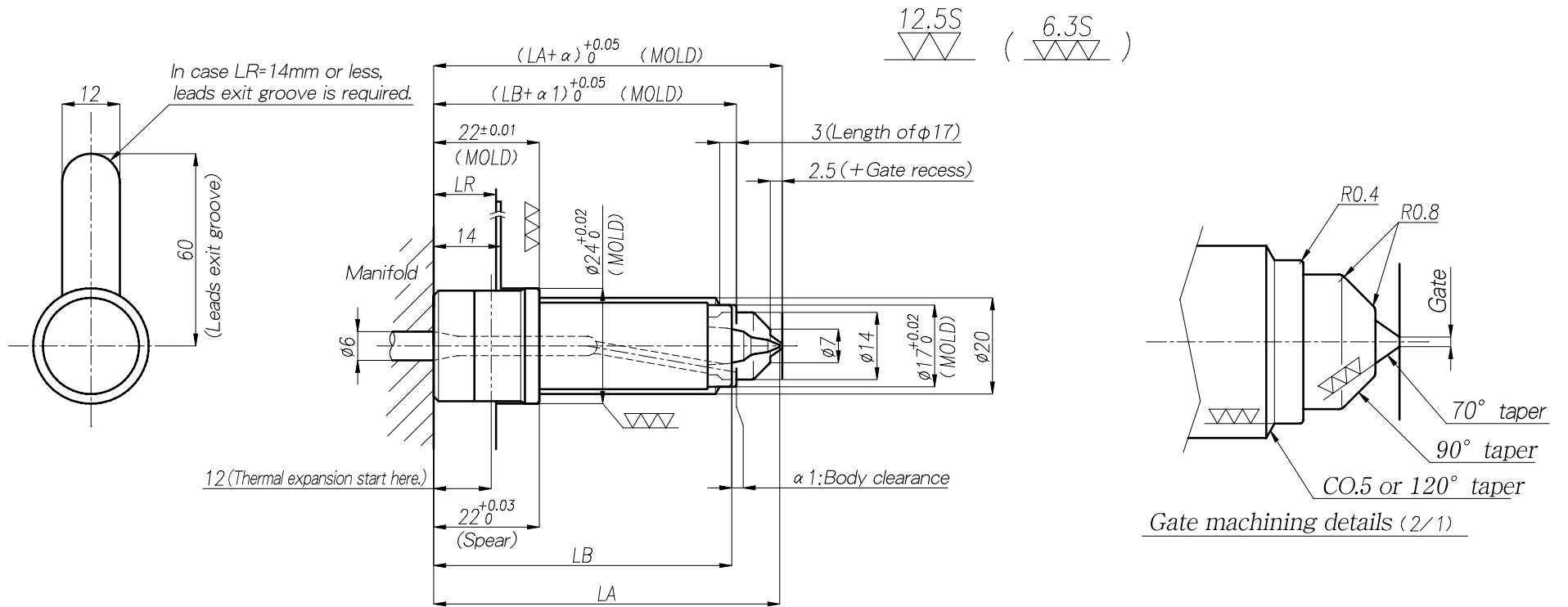


ESP17KPF Assembly Drawing



【Thermal expansion formula】

$$\alpha = (LA - 12) \times 1.2 \times 10^{-5} \times (\text{Manifold temp.} + 20^{\circ}\text{C} - \text{Mold temp.})$$

$$\alpha 1 = (LB - 12) \times 1.2 \times 10^{-5} \times (\text{Manifold temp.} + 100^{\circ}\text{C} - \text{Mold temp.})$$

α : Thermal expansion of Spear

$\alpha 1$: Thermal expansion of body

LA : Spear overall length

LB : Body overall length

LR : Lower riser height (12 mm or more)

Tip dia. (φd)	Applicable gate dia.
φ0.12	φ0.5~0.8
φ0.20	φ0.6~1.0
φ0.40	φ0.8~1.2

Matching gate diameter may vary depends on resin grade.

Standard	LA	LB
ESP17KPF-62	62.0	52.0
" -72	72.0	62.0
" -82	82.0	72.0
" -92	92.0	82.0

Tolerance unless specified

Dimension	angle
±0.1	±0.5°