

key washers = same shells = opposite.

Area: TB
ROT: TB \rightarrow (W) $\int \pi ((T)^2 - (B)^2) dx$
 $\int \pi ((\# - F)^2 - (\# - C)^2) dx$ (above/R)
 $\int \pi ((F - \#)^2 - (C - \#)^2) dx$ (below/L)

Area: TB
ROT: RL \rightarrow (S) $\int 2\pi x (T - B) dx$
 $\int 2\pi (\# - x) (T - B) dx$ (above/R)
 $\int 2\pi (x - \#) (T - B) dx$ (below/L)

Area: RL
ROT: RL \rightarrow (W) $\int \pi ((R)^2 - (L)^2) dy$
 $\int \pi ((\# - F)^2 - (\# - C)^2) dy$ (above/R)
 $\int \pi ((F - \#)^2 - (C - \#)^2) dy$ (below/L)

Area: RL
ROT: TB \rightarrow (S) $\int 2\pi y (R - L) dy$
 $\int 2\pi (\# - y) (R - L) dy$ (above/R)
 $\int 2\pi (y - \#) (R - L) dy$ (below/L)