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$16.3 \cdot \frac{W}{m \cdot K}$ Thermal conductivity of stainless steel

$$\sqrt{\frac{L}{20 \cdot cm \cdot \pi}} \cdot 2 \cdot \pi \cdot \frac{20 \cdot cm}{2 \cdot mm} \cdot 16.3 \cdot \frac{W}{m \cdot K} \cdot 500 \cdot K = 204.29 \cdot kW$$

1 Liter cyclinder, 20 cm long. Delta T 500 Kelvin
Maximum thermal power transfer through 2 mm thick steel cylinder (ends excluded) = 204 kW.

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