

Example:

$$\bar{f}_{\text{nPDP}} = 1205.1 \text{ r/min} = 20.085 \text{ r/s}$$

$$\bar{p}_{\text{out}} = 100.103 \text{ kPa}$$

$$\bar{p}_{\text{in}} = 98.290 \text{ kPa}$$

$$K_s = \frac{1}{20.085} \cdot \sqrt{\frac{100.103 - 98.290}{100.103}}$$

$$K_s = 0.006700 \text{ s/r}$$