

# FlexiLip™ Rotary Seals

## Product Offering

The key application considerations that help in the selection of the right FlexiLip profile are operating temperature, media abrasiveness, pressure, external contamination, friction requirements, shaft diameter and Total Indicator Runout (TIR).

Total Indicator Runout (TIR) is how far the shaft is misaligned with the bore during rotation. This is fully characterized in the general engineering section on . Only one FlexiLip profile is able to handle continuous service with runout conditions up to 0.020"; the LGN-N (or the LGN-S with the steel band). Keep in mind that the faster a shaft spins, the less TIR the seal can withstand.

If the temperatures are extreme or if the shaft is over 4 inches in diameter, Parker recommends using a profile with a stainless steel band inserted into the side for dimensional stability during thermal cycling. This standard design can be called out by switching the "-N" for a "-S" in the profile code (and the part number).

These decision trees are to be used as an engineering guide only. Often several other parameters must be considered to optimize seal design. Contact Parker's PTFE Engineering Team for confirmation of your choice or further recommendations. Parker also recommends that any seal be tested in the application conditions before releasing for production.

### Decision Trees

