



## Housing & Gear Parameters

### Housings

The widths below are measured inside each gear pocket from the widest point on each side of the housing (see picture below).

PUMP MODEL	NEW	MAX. WIDTH
2100	5.864"	5.900"
4000	5.864"	5.900"
4100	5.864"	5.900"
4000R (90°)	5.144"	5.180"



### Steel Gears

It is important to note that the tighter the clearance between the housing and the gear, the more efficient the pump will be. Gears are to be measured from the outside of the lobe to the outside of the opposing lobe.



GEAR SIZE	NEW	MIN. WIDTH
4"	5.848"	5.810"
6"	5.848"	5.810"
7.25"	5.848"	5.810"
7.50"	5.122"	5.090"

\*Maximum clearance between the housing and gears is .075", please keep this in mind if you are experiencing suction loss.

*NOTE: in our experience, we've used these above guidelines to maintain efficiency, but also allow our customers to run their pumps in the most cost-effective manner possible.*

*\*ALSO IMPORTANT: The pumps suction comes from the gear to wearplate clearance. If suction is your problem, a shim in the back end of the pump should do the trick. We recommend that if you are taking the back end off, you replace seals & bearings if necessary. You should also have gaskets on hand as they don't always separate & therefore will need to be replaced.*

**\*THESE NUMBERS GIVEN ARE A  
GUIDELINE ONLY**