



## 8" - 20" MODEL LP31, LP32 & LP32-D INSTALLATION INSTRUCTIONS AND CUTOUT TEMPLATE

CAUTION should be taken when aligning centerlines of cutout and edge of saddle. If centerlines do not match, damage to the saddle may result.

WARNING: U-Strap nuts are to be tightened evenly to approximately 30 foot pound torque. This is sufficient to seal the saddle to the pipeline. Additional tightening may be required to seal the saddle on rough or irregular pipe (45 FOOT POUNDS MAXIMUM).

1. CUT OUT the saddle opening from the template at right.
2. ALIGN the saddle cutout template on the pipe at the desired cutout location with the two straight sides and mounting template centerline parallel to the pipe centerline.
3. SCRIBE completely around the inside of the saddle cutout template.
4. CENTER PUNCH the two places indicated on the cutout template. These will help you align the saddle over the cutout when installing the meter. Punch cross vane location if required.
5. REMOVE the section of pipe within the inner scribed line and remove all burrs, slag, and rough edges from the inside and outside of the cutout section.

6. PLACE the meter on the pipe with the O-Ring in position on the bottom of the saddle. The saddle must be positioned so that the O-Ring maintains contact with the surface of the pipe completely around the cutout opening. Align the centerline of the saddle with centerline of the pipe and locate the saddle so that it is exactly between, and aligned with, the center punch marks on the pipe. U-Strap nuts should be tightened evenly.
7. STRAIGHTENING VANE is recommended when there is less than ten (10) pipe diameters of straight pipe (no fittings or obstructions) directly upstream from the meter location. See Straightening Vane Installation Instructions, if required, for your meter.

