

**SERVICE BULLETIN
1202505**

TITLE: Front mount driveline U-joint sizing
DATE: July 2, 1997
AFFECTED PUMPS: Models PSF and KSF

W.S. Darley manufactures several different models of front mounted pumps, capable of ratings from under 100 GPM to 1500 GPM. All of the models are capable of performing at flows and pressures beyond their rated capacity. Our largest two models, the KSF and PSF, are capable of placing substantial loads on the driveline and engine adapter. Failure to carefully consider the loading when sizing the driveline components can lead to premature wear, failure, and possible injury and damage.

It is the recommendation of W.S. Darley and Company that 1410 series U-joints be used on the KSF and PSF models. Both pump models are equipped with 1410 series companion flanges to facilitate the use of this size U-joints.

Some engines are equipped only with a 1310 series companion flange for front mount application. In those cases it is our recommendation that body builders use our 1310-to-1410 adapter, part number 4818705 to facilitate the use of 1410 series U-joints. We strongly recommend against the use of 1310 series U-joints to power either model pump, since it will result in an unacceptably short bearing life. Customers have reported that the DT-466, DT-530, and C8.3 series engines fall into this category - there may be other engine models as well.

Please direct any questions regarding this bulletin to our Engineering office at 800-634-7812 or 715-726-2650.

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