PROCEDURE FOR VQ MOBILE CARTRIDGE KIT ASSEMBLY AND ROTATION CHANGE



The direction of rotation is determined from the shaft end of the pump Right hand rotation is clockwise Left hand rotation is counter clockwise

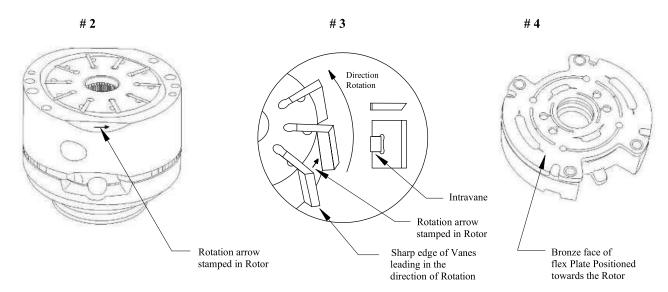
Use the following steps for assembly and rotation changes

Scribe the cartridge kit to facilitate reassembly see drawing # 1 Remove socket screws

Open cartridge kit and rotate Ring / Rotor / Vanes as an assembly

Note the following during assembly

- Rotor has an arrow engraved to ensure proper positioning for right and left hand rotation see drawing #3
- All vanes should have an intravane that slides freely in the intravane slot
- Vanes should when installed in the rotor slide freely
- Install vanes with sharp edge leading in the direction of rotation see drawing #3
- Ring has an arrow engraved to ensure proper positioning for right and left hand rotation see drawing # 2
- Assure kidney seals are properly installed in support plates
- Bronze face of the flex plates provide wear surface and should be installed as shown on drawing # 4



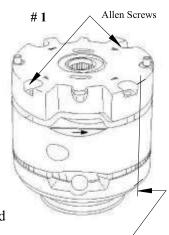
Use scribe mark to align support plates - flex plates - ring

Install socket screws with minimum torque and align cartridge kit by sliding pump casting onto the cartridge until each part is centered. Gently remove pump casting and tighten screws to the table # 1 torque. Install cartridge in casting to assure proper alignment if the assembly binds in the casting repeat above procedure.

After cartridge kit is assembled use your finger to move the rotor which should move freely back and forth within the cartridge

Bolt Torques	table #1
Pump SE	Cartridge Kit (in lb.)
20 VQ	30
25 VQ	45
30 VQ	45
25 1/0	100

105



Scribe line for alignment