



VANE PUMPS

Prod. Group No. 4240



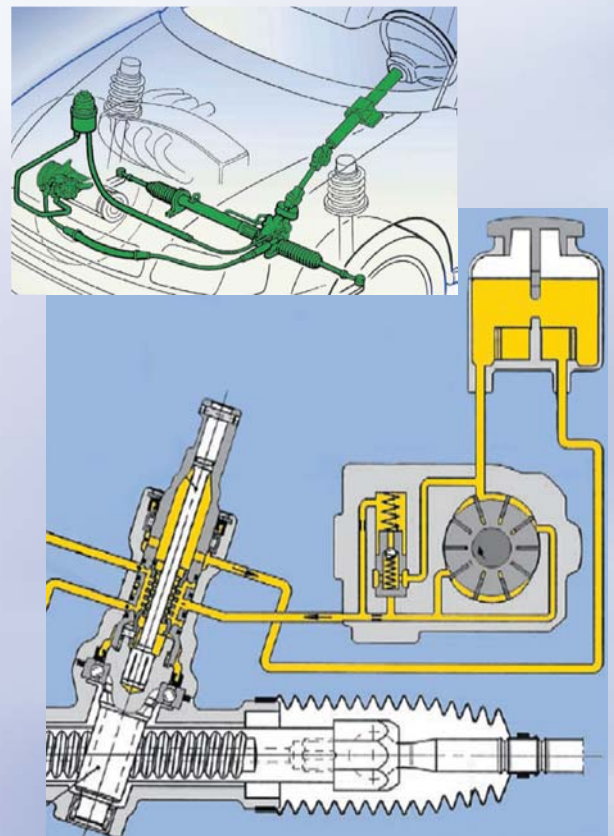
Vane Pumps

- used for servo steering mechanism



Advantages:

- High operating pressure
- Highly efficient
 - Adaptable as variable displacement pump
- Net shape process
 - Avoid machining operation
 - No profile grinding of inner contour needed
 - Cost effective
- Optimized P/M processing
 - Substitution of machining operation
- Eliminate deburring operation
 - Pre-coining operation
- Good surface quality
- High hardness
 - Highly wear resistant
- Customer tailored design
 - According customer drawing



VANE PUMPS

Typical Automotive Applications Include:

- Power steering
- Automated transmission
- Variable displacement pumps for engine lubrication
- and more...

GKN Engineering Support:

- From technical questionnaire to design proposal:
 - FEA design optimization
 - Design proposal
 - Sample/prototype manufacturing
 - In-house machining operations
 - Pump test rig

Material Developments:

- Material development and lab testing (static, dynamic, fatigue, wear)

