

technical english

steering of a car

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turning the car

steering

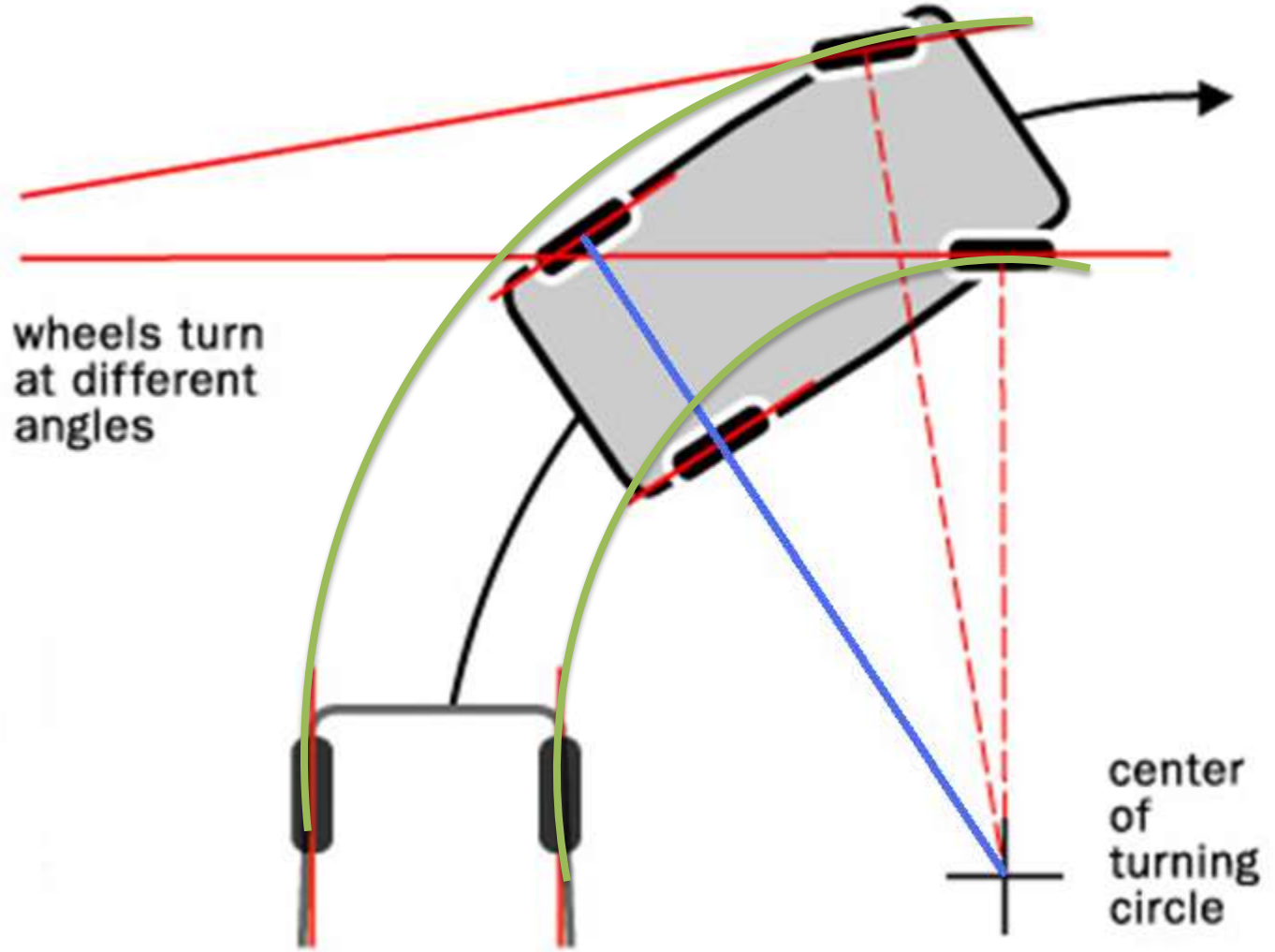
power steering

summary

turning the car

car steering

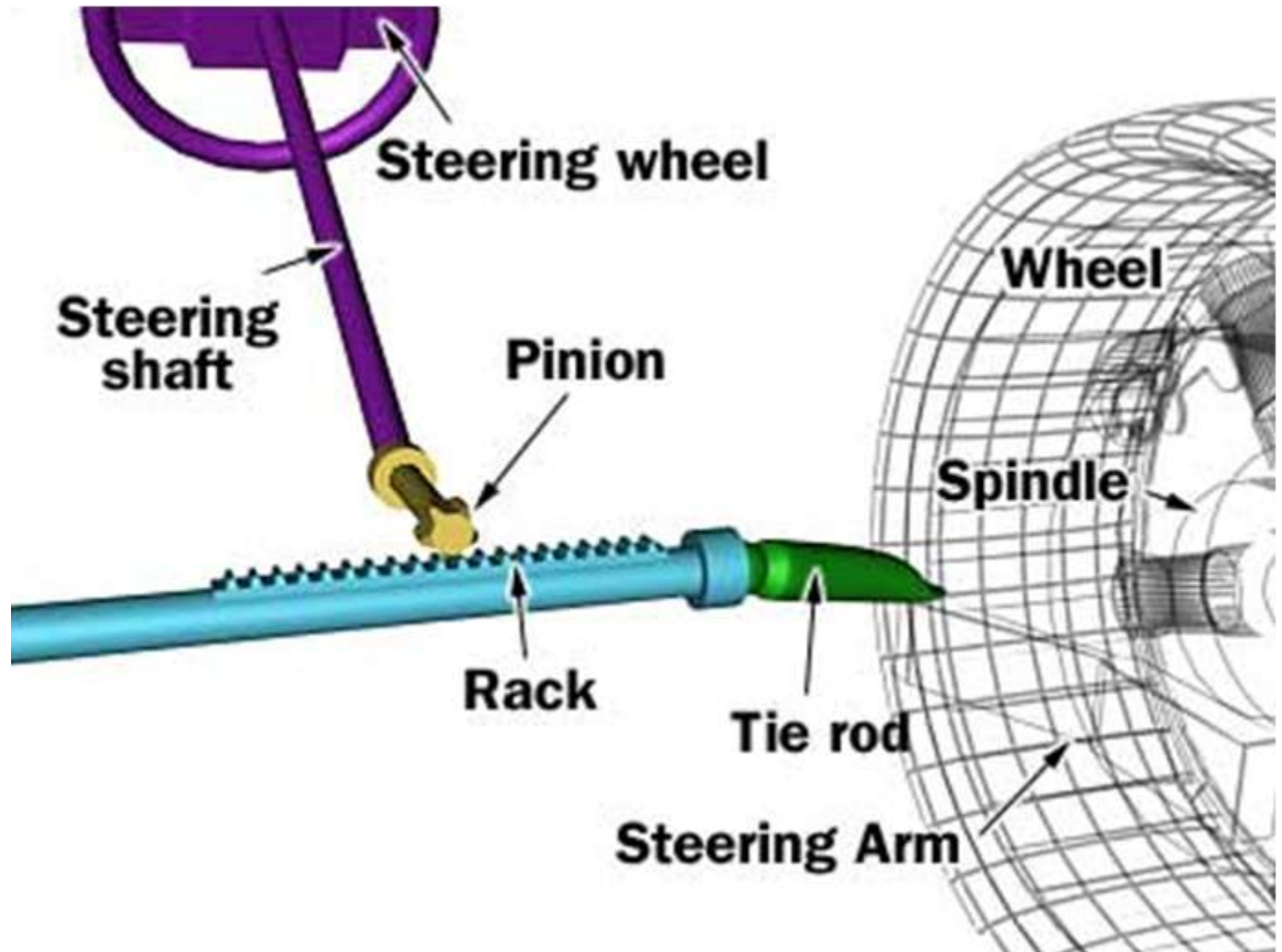
- turning the car
- steering
- power steering
- summary



rack & pinion

car steering

turning the car
steering
power steering
summary



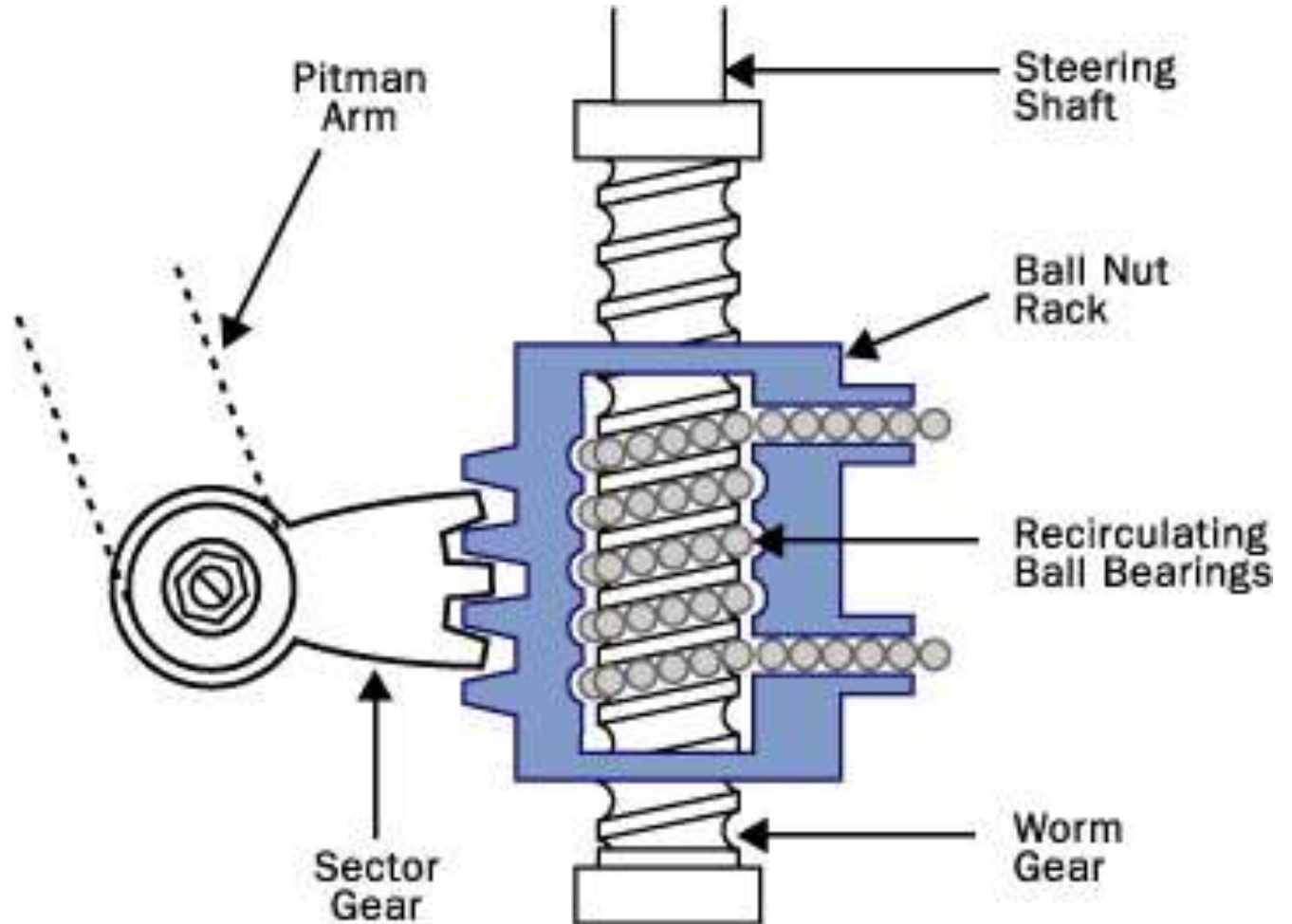
It converts the rotational motion of the steering wheel into the linear motion needed to turn the wheels.

It provides a gear reduction, making it easier to turn the wheels.

recirculating balls

car steering

turning the car
steering
power steering
summary



turning the car
steering

power steering
summary

rack & pinion steering

cars, small trucks, SUVs

recirculating-ball steering

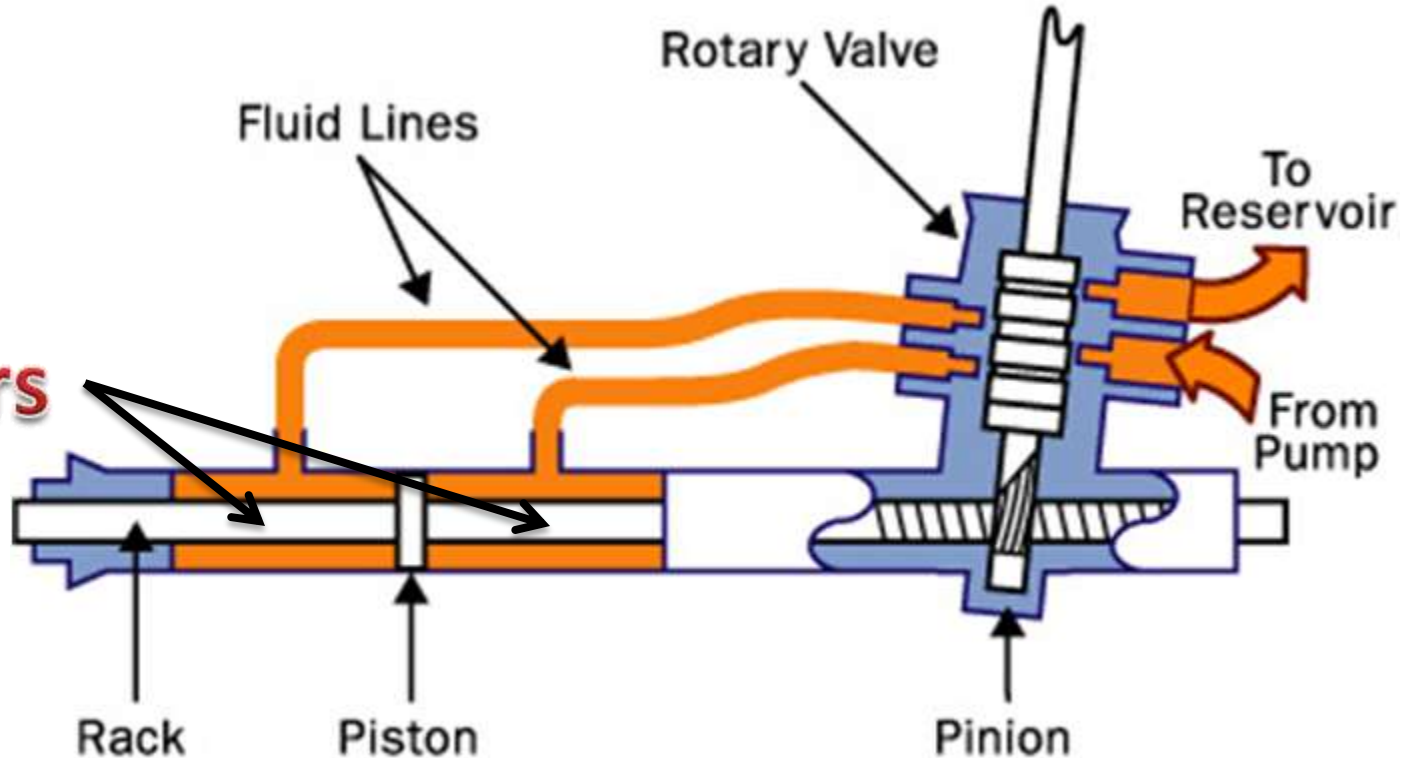
heavy vehicles and trucks

rack & pinion

car steering

turning the car steering
power steering
summary

chambers

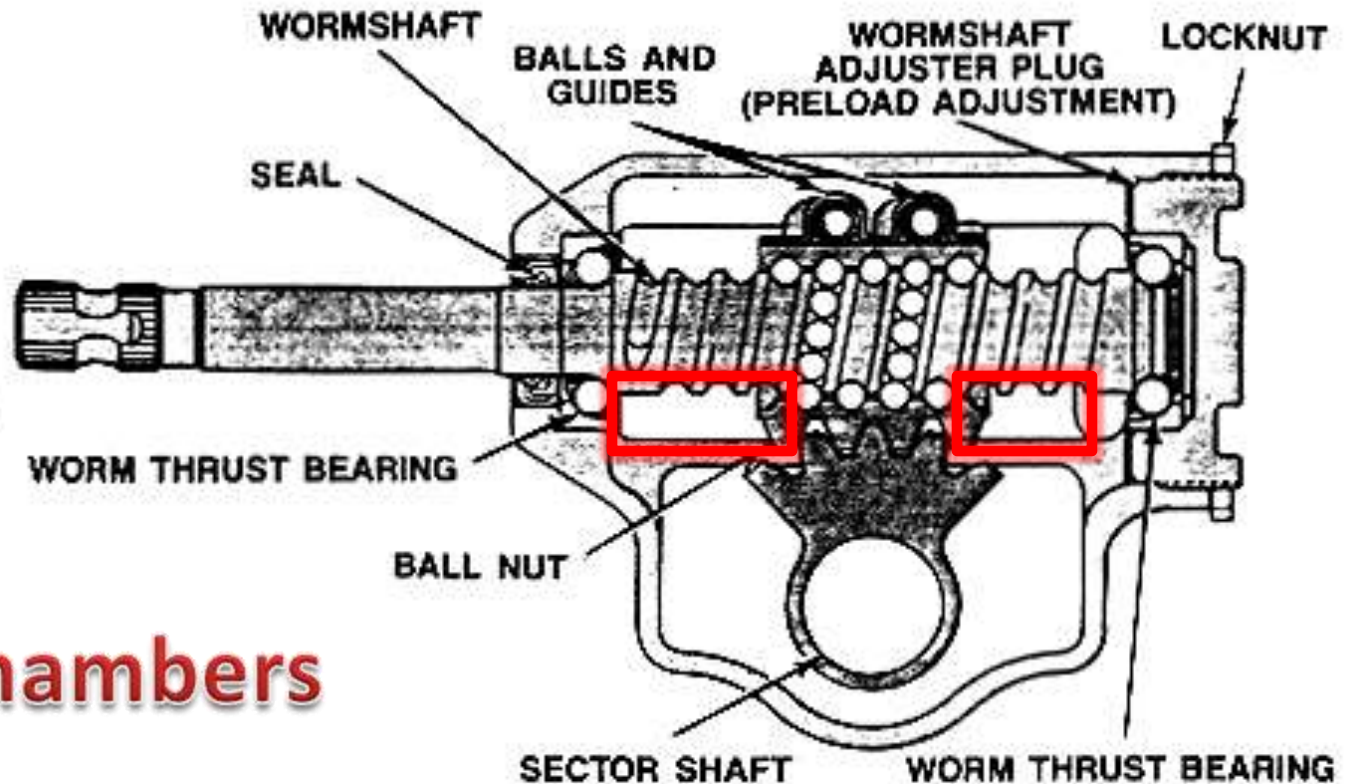


high pressure fluid is injected into chamber
fluid assists moving the rack

recirculating balls

car steering

turning the car steering
power steering
summary



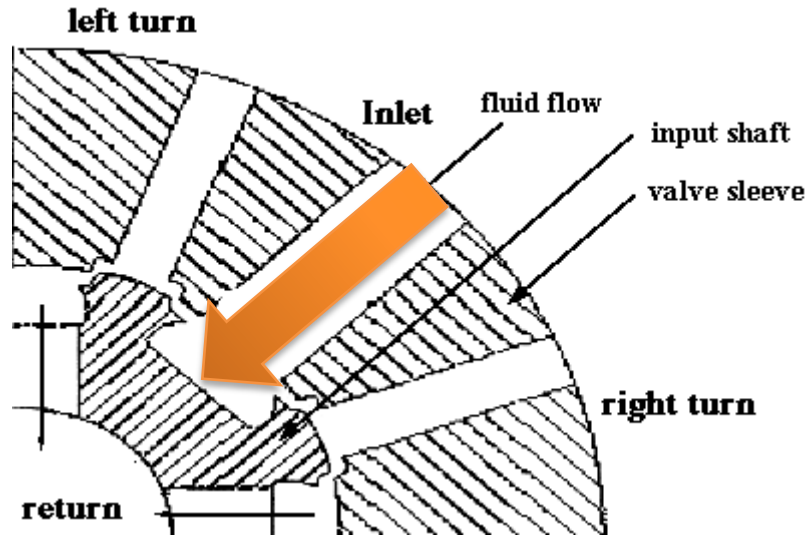
chambers

high pressure fluid is injected into chamber
fluid assists moving the rack

high pressure fluid

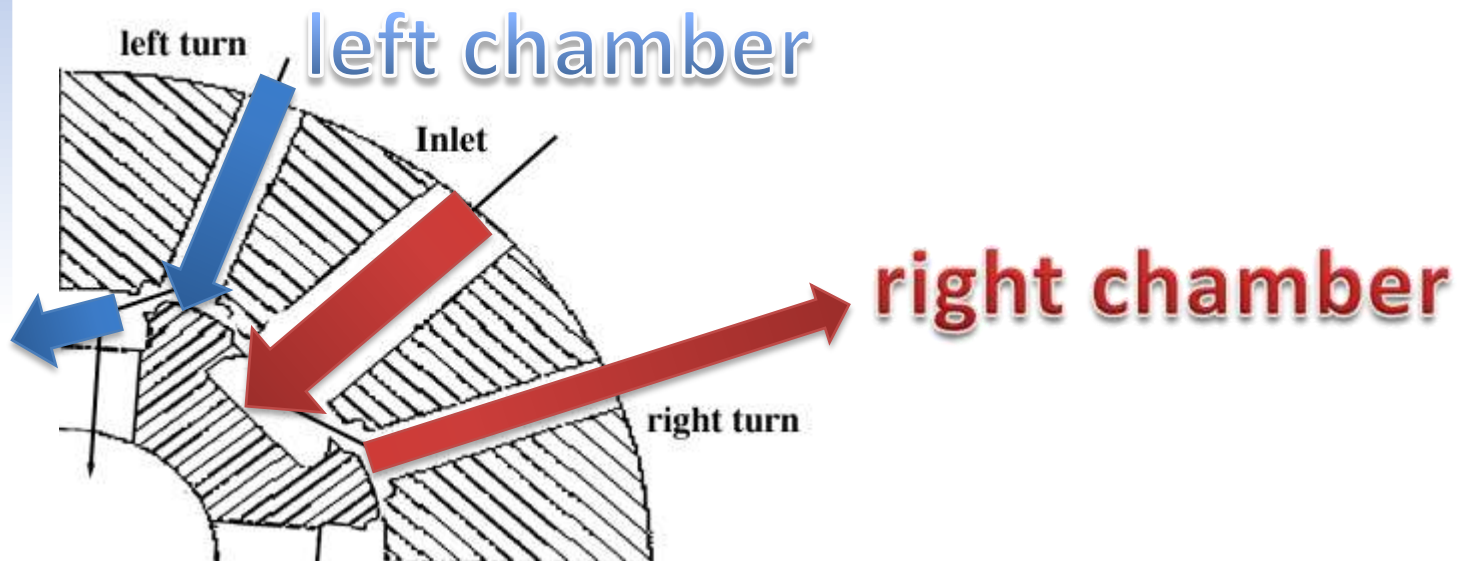
car steering

turning the car
steering
power steering
summary



rotary valve

- Hydraulic PS
- Electric PS



turning the car
steering

power steering

summary

drive-by-wire

whole steering computer controlled
no rack connection of steering wheel

much more efficient

turning the car
steering
power steering
summary

rack & pinion steering
recirculating-ball steering
power steering
drive-by-wire



thank you for your attention
and have a nice day