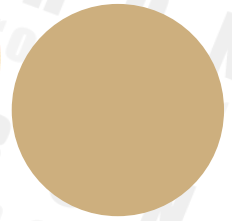


# Magneto-Rheological fluid

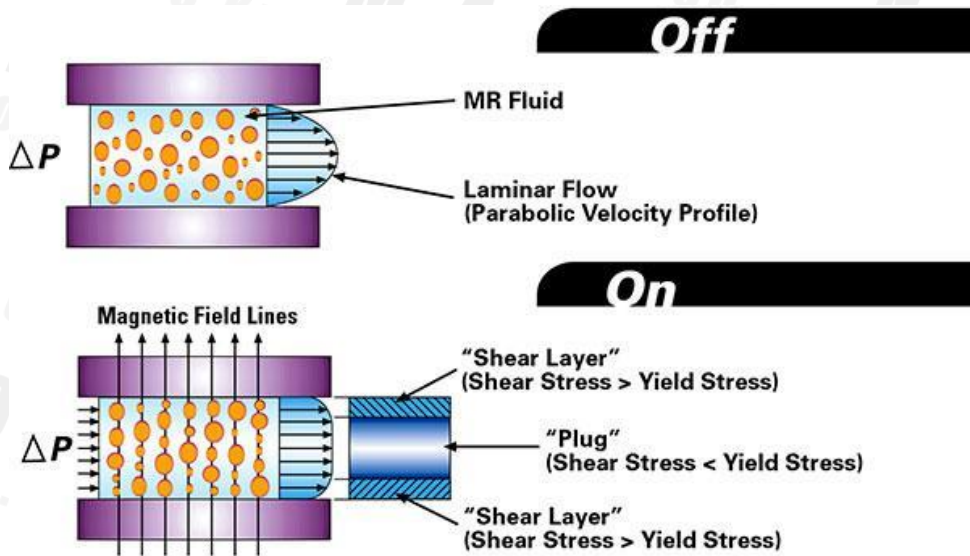
- for Damper



- A magnetic fluid called MR fluid is a smart material that controls properties through magnetic fields. Form a mixture of magnetic particles and various functional additives into the base oil.

MR Fluids consist of magnetic (typically iron) particles in a carrier fluid. In the presence of a magnetic field, the micron-sized particles link and change the fluid to a semi-solid in milliseconds. When the magnetic field is removed, the fluid just as quickly reverts back to its natural free-flowing state.

Furthermore, the degree to which the fluid changes to a semi-solid is proportional to the strength of the magnetic field, giving the fluid infinite controllability and precision.



01

Reliable to changes in external road conditions

02

Easier to control the operation of the dampers

03

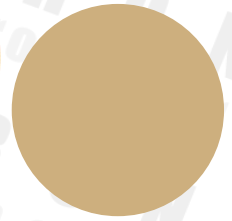
Increased convenience, stability, productivity and durability

04

Reduced abrasion on suspension components

# Magneto-Rheological fluid

- for Damper

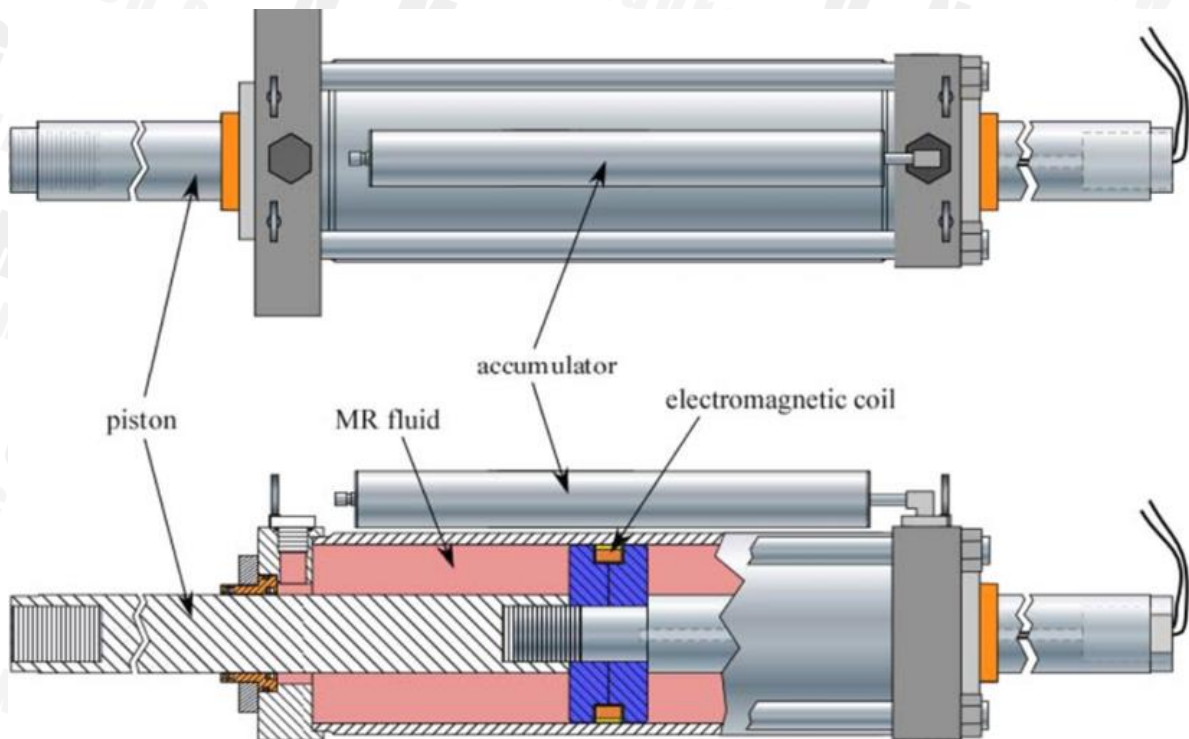


## MR fluid function

Currently suspensions are mainly filled oil to create a damping force according to the piston speed within the damper. And damping force is proportional to oil viscosity.

Existing suspension systems cannot continuously change the viscosity of the oil. Thus it is not effectively reducing vibration coming from the road surface of the vehicle.

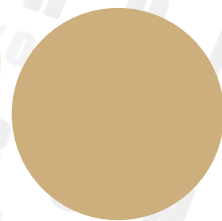
The MR (electrofluidic) suspension has properties that control viscosity depending on the size of the electric and magnetic fields. So it can reduce vibration coming from the road surface of the vehicle depending on changes in external road conditions.



Structure of MR damper

# Magneto-Rheological fluid

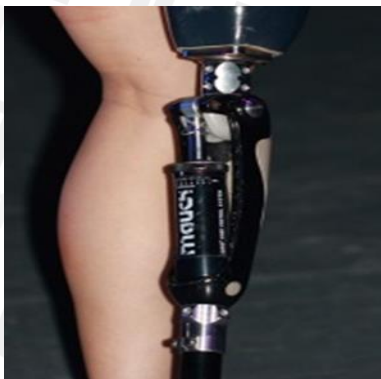
- for Damper



## ● Applications



1) Vehicle damper



2) Artificial leg damper (medical)



3) High speed train



4) Military vehicle



5) Earthquake damper



# Magneto-Rheological fluid

- for Damper



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