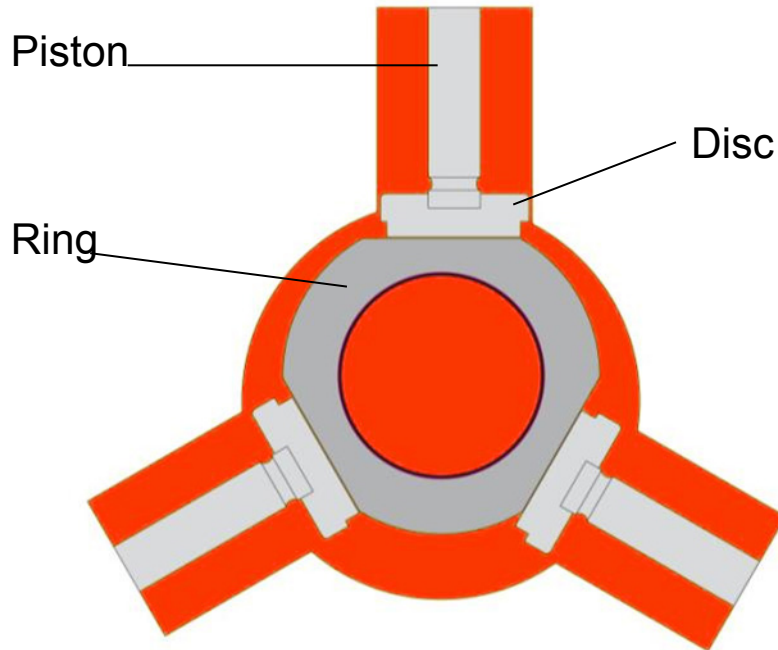


Diesel injection pumps

Passenger car's common rail pump principle



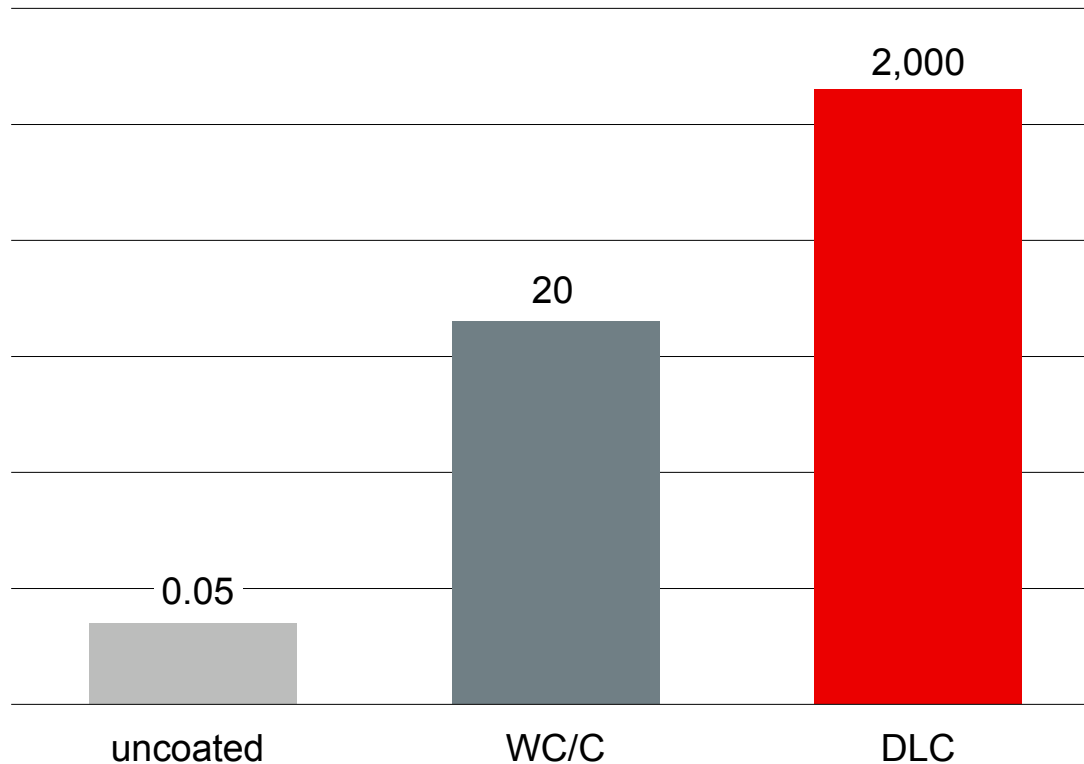
Ship engines inline pump plungers



Injection pressures of advanced diesel injection systems reach today more than 2000 bar. This results in seizure of μm tolerated plunger, rings or discs
BALINIT[®] C (WC/C) of plungers for large ship pumps or BALINIT[®] DLC of common rail pumps are today a design standard.

Diesel Injectors

Lifetime [hours]



Source: Siemens VDO



Test conditions

Method:

Accelerated injector test

coated part:

Injector piston

End of test:

1 μm loss of material

Increasing injection pressures lead to severe seizure problems on diesel injector components. BALINIT® DLC achieves the highest wear resistance for injector components.