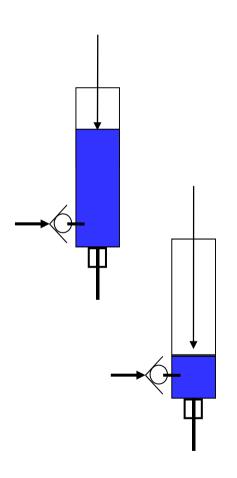
benefits an penalties of main dosing technologies

piston pump



functionality

- press in of medium in geometric defined pistons
- press in of medium in dosing needle by downpress of piston crown
- modern technologie: driven by servo motor or propotionalvalves
 control of output speed by immersion depth possible

benefits

- very high repetition accuracy

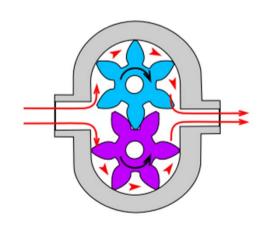
penalties

- influence of piston-filling-time to cycle time
- partially high streaming-speed => high shear rate in medium

benefits an penalties of main dosing technologies

gear pump





functionality

- dosing of geometric defined chamber-volume within gear-combination
- electrical driven gears =>
 endless, nearly pulsation-free dosing

benefits

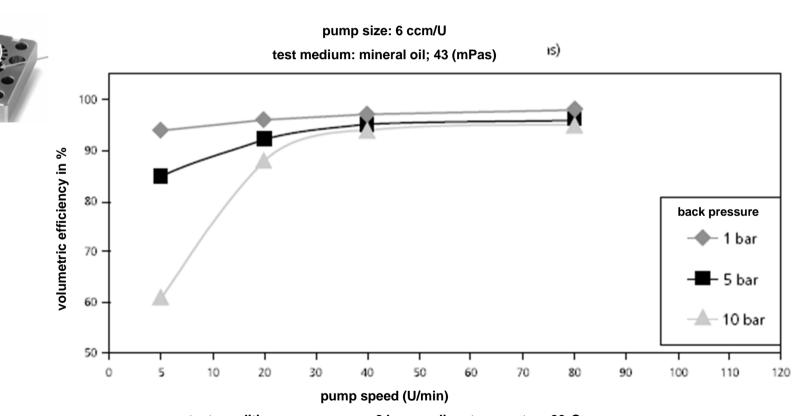
- flow rate controll by speed
- no valves => direction of flow invertible => suck bag of medium possible

penalties

- leakage depending on construction inducted gap determined by viscosity and speed
- only suitable to a limited extend for high abrasive mediums

benefits an penalties of main dosing technologies

gear pump – output characteristics



test conditions: pre pressure 2 bar; medium temperature 20 C

