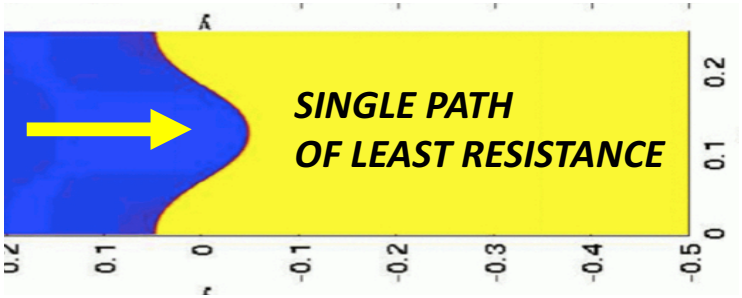
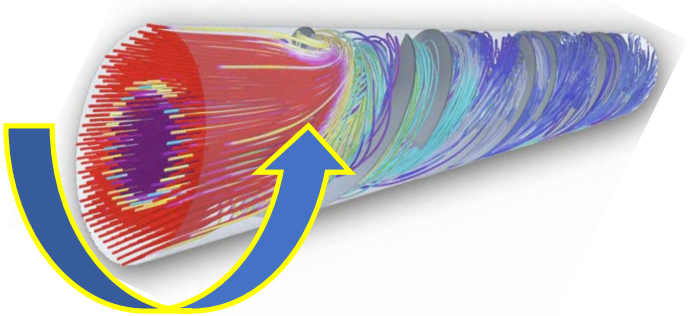
VORTEX – The New Flow Standard

VORTEX TECHNICAL BREAKTHROUGH



UNLIMITED FLOW PATHS OF LEAST RESISTANCE



PROBLEM

- Laminar flow sleeves drag against pipe walls & each other
- Flowing drag results in INEFFICIENT, COSTLY PUMPING,
- Unreliable flows and blockages need expensive intervention

- *Higher flow requires costly square law power increases*
- *Flowing pressure declines rapidly - a symptom of drag losses*
- Yield, productivity and operations continually compromised

SOLUTION

- Flow rotation reduces frictional drag
- Multiple paths of least resistance created
- Higher flow rates from existing systems
- Higher system reliability and uptime

VORTEX BENEFITS

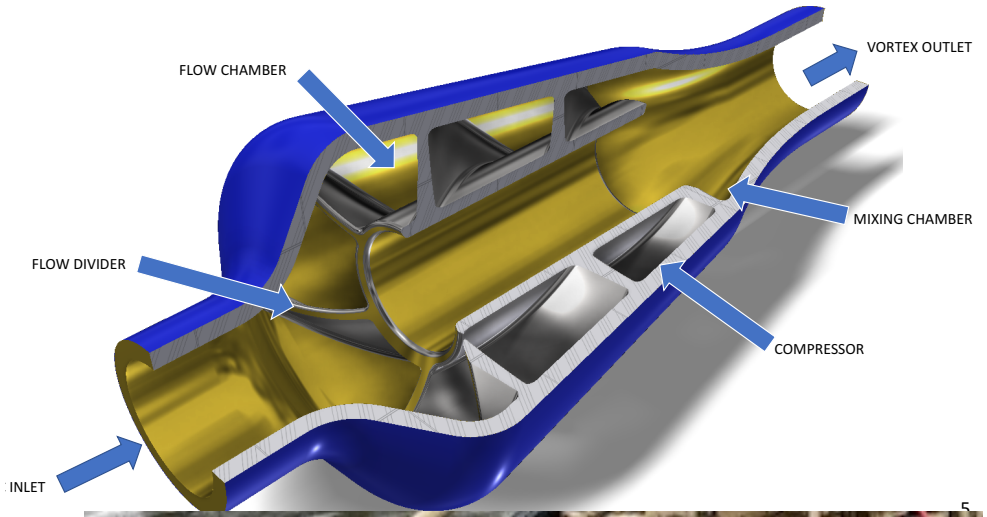
- Higher flow capacity in existing lines
- Faster refueling, reduced operational risk
- Simple, cost-effective retrofit of Vortex units
- Rapid deployment and productivity gain

- Value Proposition : *SIMULTANEOUS*

- Faster flow capacity gains from existing equipment
- More efficient and flexible operational capacity
- Lower energy consumption
- Lower costs
- Emissions reduction

GS Vortex SYSTEMS

SIMPLE INSTALLATION



- ***Installs simply in line***
- ***No moving parts***
- ***No energy required***
- ***No maintenance***
- ***Plug and play***

GS Vortex SYSTEMS

VORTEX TESTED PERFORMANCE