



Case Study

Valve	Medium	Flow	Efficiency Factor of Pump	Costs	Time of Operation	Kv- / Zeta-Value	Kv- / Zeta-Value
DN050	Water	4 m/s	0.7	0.18 € / kWh	220 days per year, 16 hours per day	42 m³/h / 5.7	62 m³/h / 2.6

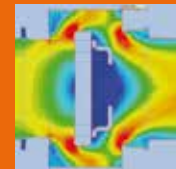
Results

Power consumption with standard design:
1'006 kWh/year = 181€
Power consumption with new design:
463 kWh/year = 83€

Conclusion

The Non Return Valve CSL streamLiner consumes only 50% of the power than the standard design.
The valve will be fully payed within 1 1/2 years!

Standard Design



New Design



Non Return Valve Type CSL streamLiner

WE REDUCE YOUR ENERGY CONSUMPTION BY 50%

Benefits

- The use of state of the art flow simulation software led to a valve design with minimised pressure drop
- Each assembly has a streamline optimised shape
- The lack of turbulences leads to a low-shear product treatment
- The valve has only minimal dead space

Further Features

- Radial bearing of the valve plate
- Soft sealing (NBR, EPDM, FKM or PTFE o-ring embedded in body) on request
- Standard flat seals as well as spiral wound gaskets can be applied
- Broad flange connection on both sides
- Easy centering for different pressure ratings through various moulded centering faces

Standards

- DN015-350
- Face-to-face dimensions according to DIN EN 558, basic serie 52 (K5)
- Design pressure 50bar / ANSI Class 300
- Flange connection PN 10-40, ANSI Class 150 & 300, JIS 10K

