



OptiFlow-Line

Energy Efficient Quick Connect Couplings



Compressed air - an expensive media?

Despite numerous advantages, compressed air has the reputation of being a cost intensive energy user – in many cases a misstatement. By using the right components an energy efficient operation is possible.

Following factors reduce the energy performance:

- Standard valves with large surface area
- Too small dimensioned hose or tubing
- Too small dimensioned connections
- Insufficient capacity in networks or ring main systems
- High humidity

Effect of such factors:

- High pressure drop
- High energy consumption from compressor
- Reduced productivity
- Damages on system/tools

The products from the **LUDECKE** OptiFlow-Line offer energy-optimized coupling systems, which achieve higher flow rates and significantly reduce the energy consumption. This leads to a decrease of energy costs as well as an increase of the durability and the lifetime of the machines and tools.

By continuous process improvements in the production we ensure that the quick connect couplings are consequently redefined and improved in their efficiency. Like this we can guarantee sustainable and efficient working.*

LUDECKE OptiFlow-Line

- Streamlined valve
- Extremely high flow rates
- Low pressure drop
- High durability
- Great operational safety and best sealing characteristics



*Find out more about the **LUDECKE** sustainability strategies in our Green Company Report (page 10)

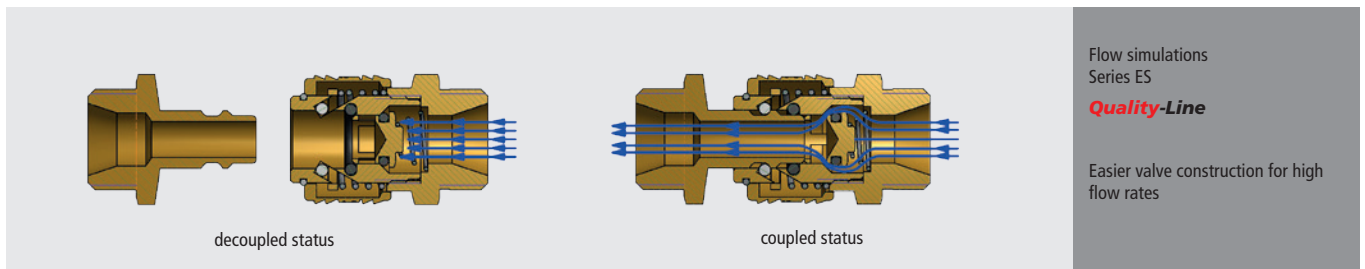
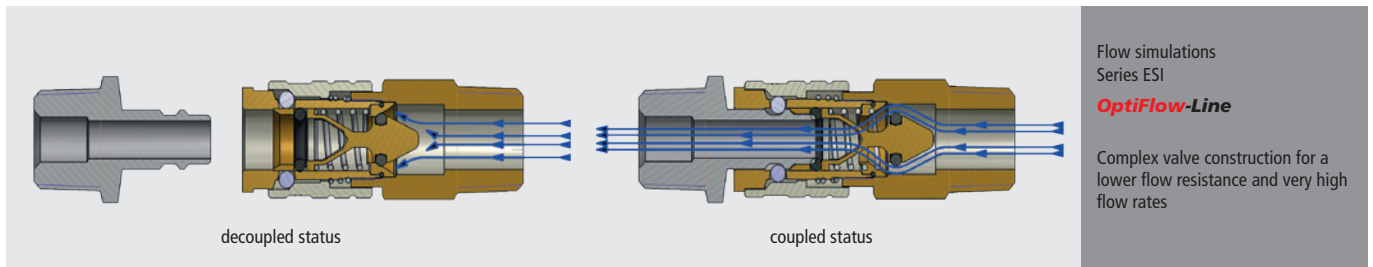
Different Sizes and Versions

The products of the **LUDECKE OptiFlow-Line** are available in different sizes, connection and valve types as well as in different materials.

Safety Breathing Air Couplings	Industrial Quick Connect Couplings	Safety Industrial Quick Connect Couplings	Safety Self-Venting Couplings	Industrial Quick Connect Couplings	Industrial Quick Connect Couplings
Series: ESI1A DN 7.4 ESI2A DN 7.4	Series: ESI DN 7.8	Series: ESIK DN 7.8	Series: ESIS DN 7.8	Series: ESIG DN 10	Series: ESG DN 19
					

Flow Simulation Comparison

The products of the **LUDECKE OptiFlow-Line** have a valve with optimized geometry for higher flow rates.



Flow Chart

The flow rates of the **LUDECKE OptiFlow-Line** (in to standard couplings) are summarized in the following chart.

