

# Adaptive Relay Valve Drive ARVD - ARVDPlus - ARVD II Plus

## Working principle

The ARVD feature automatically evaluates the filling yarn flight and adapts the relay nozzle valve timings accordingly. By doing so, the air consumption during each insertion can be reduced and optimized per insertion channel.

In the case of **ARVD**, the closing time of the relay nozzle valves is adapted during every insertion cycle using fixed values. Depending on the level of optimization set in the display, blowing timings are adjusted accordingly. Low indicates a max closing time adjustment of 30%, Medium 40% and High 50%. By doing this, a reduction of up to 7% in air consumption can be achieved.

With **ARVDPlus**, the closing time of the relay nozzle valves is adjusted based on a series of insertions, and the level of adjustment is also based on the location of the relay nozzle valve (more in the middle, less on the left and right-hand side). ARVDPlus allows an air consumption reduction of up to 12%.

**ARVD II Plus** (patented) provides all the benefits of ARVDPlus but also allows adjustment of the opening times of the relay nozzle valves based on the insertion yarn flow.

By optimizing both opening and closing times a reduction of up to 20% in air consumption can be achieved. Both opening and closing time optimizations can be enabled separately. As the relay nozzle valves are responsible for 75% of the total air consumption of an airjet weaving machine, these ARVD features can provide a drastic reduction in costs without compromising on fabric quality.

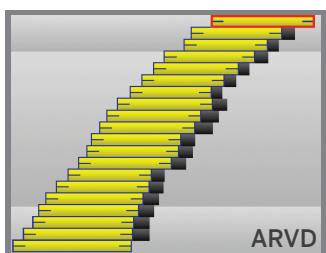
## Advantages

- Reduce impact of high pressure air on filling yarn by reducing the blowing times
- Up to 12% air consumption reduction by adjusting closing time of relay nozzle valves
- Up to 10% air consumption reduction by adjusting opening time of relay nozzle valves
- Optimization is fully automated, configurable and based on insertion settings for each channel individually

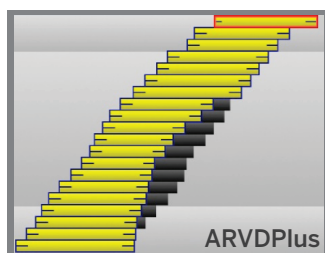
## Application

ARVD has been tested on a broad range of yarns and proved to give optimal results with both spun and filament yarns.

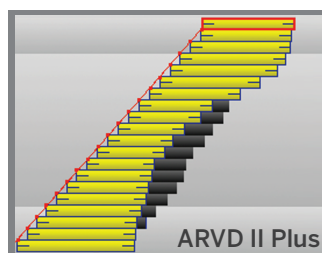
PATENTED



ARVD



ARVDPlus



ARVD II Plus

### ARVD AVAILABLE ON:

- OMNI*plus*
- OMNI*plus* 800
- TERRY*plus* 800

### ARVD Plus AVAILABLE ON:

- OMNI*plus*
- OMNI*plus* 800
- TERRY*Plus* 800

### ARVD II Plus AVAILABLE ON:

- OMNI*plus* Summum
- TERRY*plus* Summum
- Omni*Plus-i*
- Terry*Plus-i*

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