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## Living for Solutions: The new 0/4 EVO model



New Pharma Nozzle with optimised shape

# EVO – Evolution made by SCHLICK

‘Simplify and optimise’ is SCHLICK’s motto when developing its solutions. The abbreviation EVO in the new 0/4 EVO model represents a powerful idea: less is more! Through intelligent design, SCHLICK has optimised the nozzle unit by reducing the amount of components in its successful 0/4 S73 Classic model. This means increased safety, easier handling and a lighter nozzle.







Visionary solutions



## Easier handling – same spray quality

The new design enables easier handling, thanks to plug-in connections and tool-free assembly and disassembly, for example. There are also fewer individual parts, which reduces the weight and the wear. An inside contour optimised for flow reduces the risk of dead space. The rounded air cap reduces bearding and its defined position ensures reproducible results. There is also a White Paper guaranteeing identical results from the 0/4 S73 and the new EVO model.

The optimised shape of the EVO 0/4 series is available with individually adjusted shaft length as standard. Functional components with a surface quality of  $Ra < 0.8$ , material design on request.

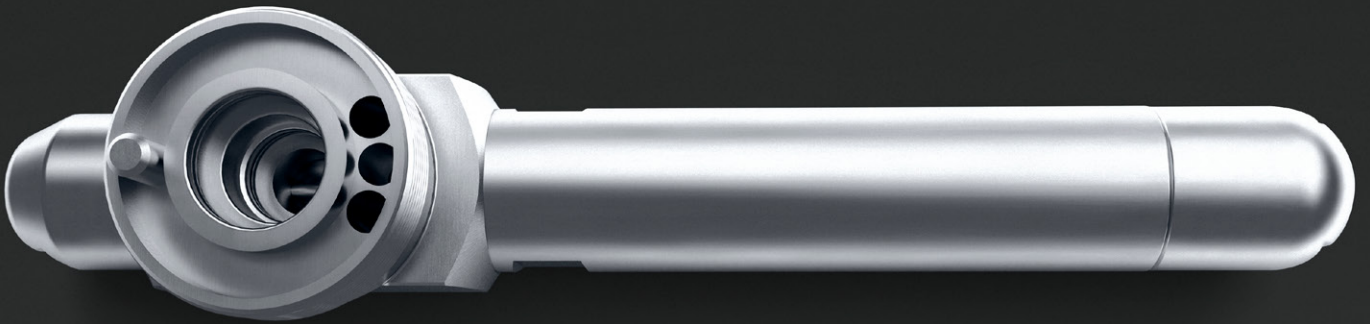


## Shape optimisation increases process safety

Not only does the reduction in the number of individual parts minimise wear, saving costs, but it also reduces sources of leaks in the 0/4 S73 EVO. The tool-free assembly/disassembly thanks to plug-in connections also increases handling safety. The new air cap with a defined position reduces the risk of bearding around the nozzle orifice. In this way, the optimised shape helps ensure overall process reliability.



The 0/4 EVO with optimised shape now includes even fewer individual parts, which further simplifies handling in daily use.



## Benefits of the EVO model at a glance

### Identical results

A White Paper guarantees identical spray results from the 0/4 S73 and the EVO model.

### Reduced bearding

Rounded air caps reduce the risk of bearding on the nozzle.

### Ultra-safe assembly

Plug-in connections instead of screw threads minimise assembly errors.

### Fewer wearing parts

Thanks to its construction there are fewer wearing parts, which saves costs.

### Easier to clean

The reduced number of individual parts significantly simplifies the cleaning process.

### Easier handling

No additional tools are required for assembly/dismantling.

### Inside contour optimised for flow

The new design means reduced shear forces and dead spot areas inside the nozzle unit.

### Set air cap position

Simple and defined setting on the air cap ensures reproduceable results.

### Shorter downtimes

Fewer components and the use of plug-in connections reduce assembly time.

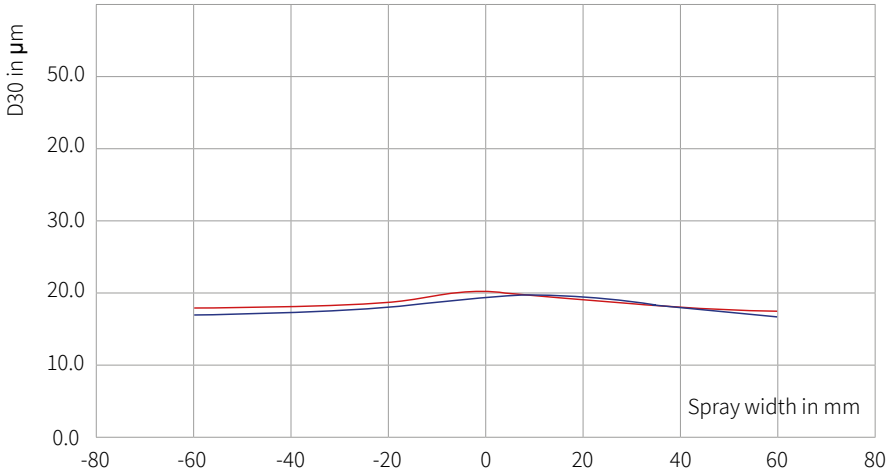
# Guaranteed identical spray quality

The spray quality in relation to SCHLICK's proven 0/4 S73 model is identical. This has been investigated and confirmed using laser optics at the SCHLICK Test & Research Centre. These results are guaranteed through a White Paper.

The two models are within tolerances of  $\pm 5\%$  in terms of:

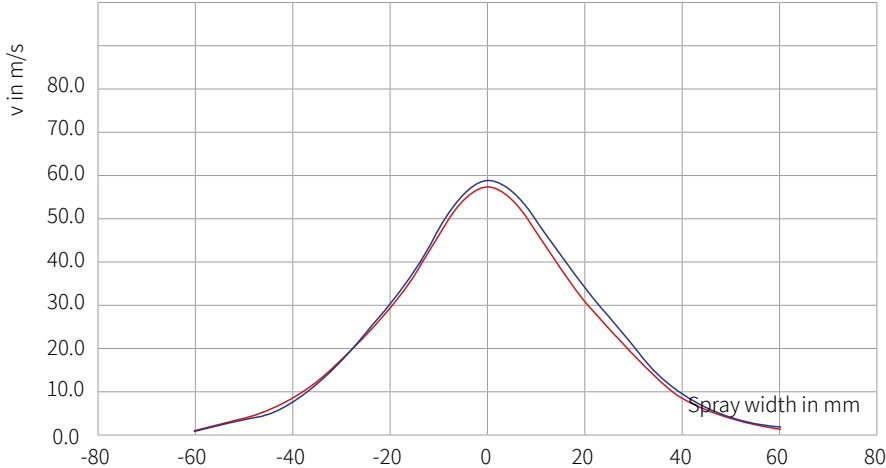
**liquid flow, flow of the atomisation medium, spray angle, droplet size, droplet speed and droplet size distribution.**

## Droplet size distribution



**Operating conditions (Water, reference liquid):**  
Liquid insert: 1.5 mm  
Water 500 g/min  
Atomising air: 3.0 bar (g)  
Air cap position: identical  
Measuring distance: 200 mm  
Increment: 20 mm

## Speed distribution



— 0/4 S73  
— 0/4 S73 EVO

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**Consultation, engineering, production and testing.**

At SCHLICK, you get everything from one source.

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