

Living for Solutions:  
Model 0/4. Tried and tested.



## Precise. Intelligent solutions ensure precise spraying.

Homogeneous and reproducible spray results are required for all sorts of applications, but this is especially the case with fluidised beds. External-mix two-substance nozzles of model series 0/4 provide the fine atomisation required, even for large volumes of liquid. The flow rate and fineness of the atomisation can be controlled separately. For hard-to-access working areas, SCHLICK offers the individually calibrated spray-unit of the 0/4 series. A spraying system that consists of a specially produced media-connector and the pharma nozzle itself. Individually manufactured for your application.



For the 0/4-series spray-unit, the media-connector is securely connected to the pharma nozzle, e.g. via thread, clamp connection or push-in connector. Customised solutions are also available.



Your application. Our nozzle.

## Custom-made. Tailored to your application.

Fluidised bed processes like agglomeration, coating and granulation have a significant impact on future product properties. The targeted injection of liquid plays a crucial role here, as this is the only way to ensure that product is applied evenly. Spray angle, droplet size and atomisation pressure are also key contributory factors. These parameters can be individually adjusted on the 0/4 model. SCHLICK 0/4-series nozzles and spray-units are used for bottom spray processes with a draft tube (Wurster method) amongst other applications. Ideal for achieving a very even coating in the system.

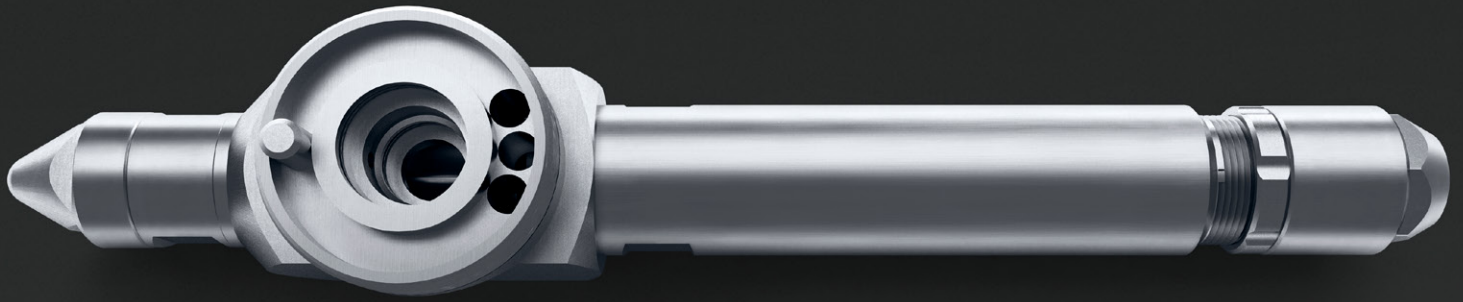
The 0/4 model series is available with individual shaft lengths as standard. Functional components are produced to a surface quality of  $Ra < 0.8$ . Material version on request.



## Modular. Straightforward and easy handling.

The two-substance nozzles in the modular system series 0/4 are tried-and-tested spray nozzles in fluidised bed applications. They are designed for modern production standards and a wide range of application requirements. The nozzles can be easily converted into different designs, thanks to the modular system. The sophisticated construction drastically reduces maintenance and set-up times. The series is available with individual shaft lengths as standard. In the spray-unit version, with individually adapted media-connector, difficult system-side requirements can also be met.





## Benefits of the 0/4 model version at a glance

### Optimal spray result

Precise settings enable homogeneous and reproducible spraying results.

### Highly variable

Nozzle models 0/4 can also be delivered with heating and cooling jackets.

### Simple handling

Easy installation and de-installation for cleaning or maintenance.

### Maximum flexibility

Optimal flexibility thanks to straightforward installation/de-installation and conversion of nozzle.

### Simple cleaning

A sophisticated nozzle structure makes cleaning work significantly easier.

### Precise control

The flow rate and fineness of the atomisation can be controlled separately.

### Highly adaptable

Suitable shaft lengths are produced according to customer specifications and requirements.

### Variable scatter cone

Continuous and secure adjustment of the scatter cone from 10°–40°.

### One-stop shop

Consultation, engineering, production and testing from SCHLICK.

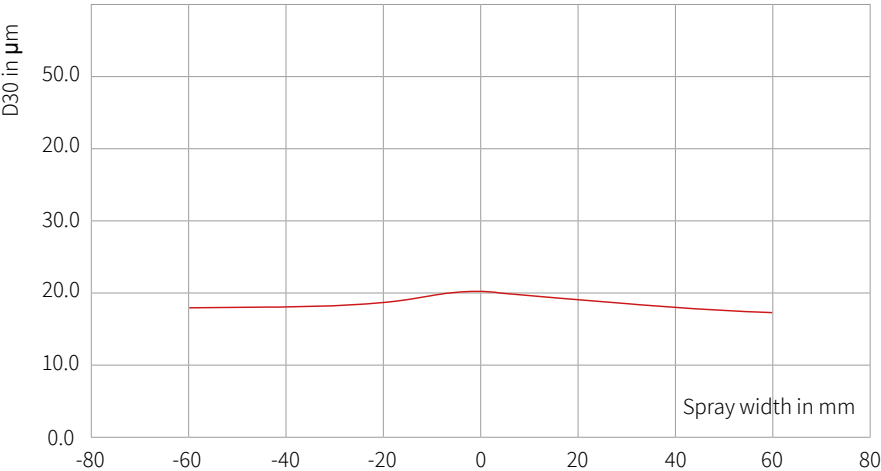
# Guaranteed identical spray quality

The spray quality of the tried-and-tested SCHLICK model 0/4 stands out thanks to its consistency and homogeneity. This has been examined and confirmed using laser optics at the SCHLICK Test & Research Centre.

The following spray parameters were checked here:

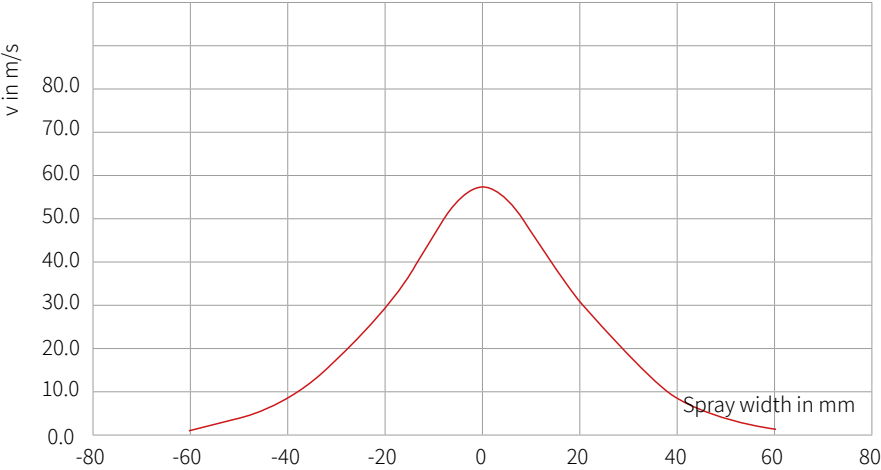
**liquid flow, flow of the atomisation medium, spray angle, droplet size, droplet speed and droplet size distribution.**

## Droplet size distribution



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

## Speed distribution



— 0/4 S73

Your application. Our nozzle.  
Our promise: Living for solutions.

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

At SCHLICK, you get everything from one source.

The ideal solution for your application.

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Subject to technical alterations . 09.2022



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