



# IEC 60529 IPX3/IPX4 Water Spray Nozzle

## Handheld Spray Nozzle for Spraying and Splashing Water Tests

A handheld test device designed for IEC 60529 IPX3/IPX4 water ingress protection testing. The spray head uses a brass nozzle with 121 holes of 0.5 mm diameter and an aluminium moving shield for controlled exposure.

IEC 60529

IPX3/IPX4

121 holes

0.5 mm holes



- Brass spray head and aluminium moving shield
- Designed for enclosure protection testing against spraying and splashing water
- Suitable for laboratories, QC departments and certification support teams
- Applicable to luminaires, household appliances, plugs, sockets, switches and electrical enclosures



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Product details, inquiry form and related IP testing equipment information.

## Contact & Factory Information

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# Product Overview

Core product information and technical parameters for quotation and laboratory configuration.

## What this product is used for

The IEC 60529 IPX3/IPX4 Water Spray Nozzle is used to evaluate whether an enclosure can provide protection against water sprayed or splashed from specified directions. It is especially practical for large samples, assembled products, fixed-position equipment and irregular enclosures where flexible manual spraying is required.



## Key Information

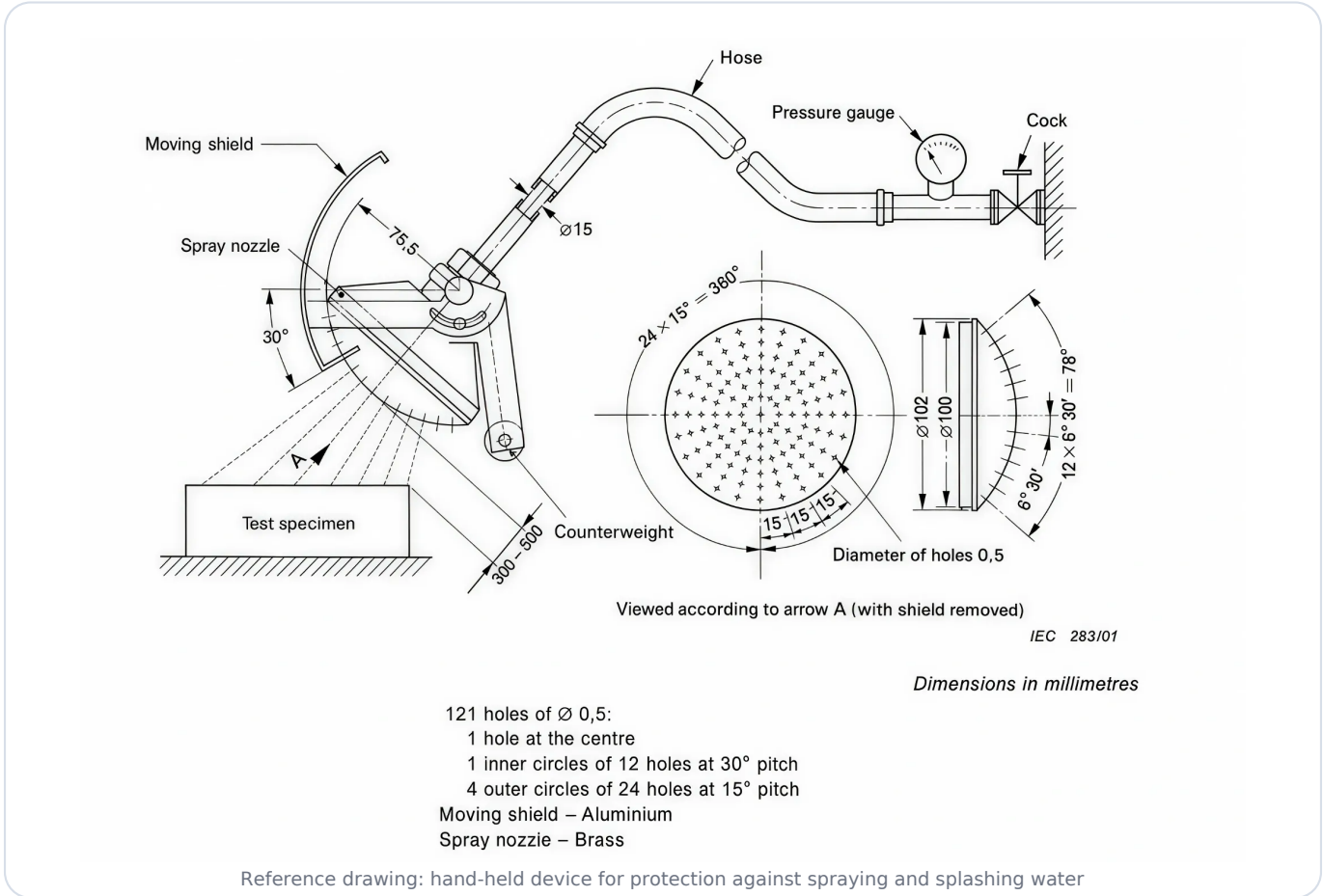
<b>Product Name</b>	IEC 60529 IPX3/IPX4 Water Spray Nozzle
<b>Applicable Standard</b>	IEC 60529
<b>Test Levels</b>	IPX3 spraying water and IPX4 splashing water
<b>Product Type</b>	Handheld water spray nozzle
<b>Test Object</b>	Electrical enclosures and products requiring IPX3/IPX4 verification
<b>Typical Applications</b>	Luminaires, household appliances, plugs, sockets, switches and enclosures
<b>Typical Users</b>	Manufacturers, third-party laboratories, certification teams and QC departments

## Nozzle Configuration and Test Setup

<b>Spray Head Material</b>	Brass
<b>Moving Shield Material</b>	Aluminium
<b>Number of Holes</b>	121 holes
<b>Hole Diameter</b>	0.5 mm
<b>Typical Water Flow Rate</b>	10 L/min +/-5%
<b>Operation Method</b>	Handheld operation
<b>Supporting Equipment</b>	Water supply, flow control, pressure control and hose connection
<b>Optional Integration</b>	Rain test chamber, waterproof test system or laboratory test bench

# Nozzle Structure & Dimension Reference

Dimensional drawing and key construction notes for IEC 60529 IPX3/IPX4 spray nozzle evaluation.



## Spray Head Details

- 121 holes of diameter 0.5 mm
- 1 hole at the centre
- 1 inner circle of 12 holes at 30 degree pitch
- 4 outer circles of 24 holes at 15 degree pitch
- Brass spray nozzle for durability and stable spray pattern

## Testing Considerations

- Confirm whether the test level is IPX3, IPX4 or both before setup
- Keep spray holes clean and free from blockage or mineral deposits
- Use stable water flow and pressure control for repeatable testing
- Control spray distance, shield position, movement range and duration according to the applicable test procedure
- Inspect the enclosure after exposure based on the required acceptance criteria

**Note** The nozzle provides the required spray exposure condition only when used with a suitable water supply and controlled setup. Final pass/fail judgement depends on the tested product standard, sample condition and post-test inspection method.

# Applications & Inquiry Information

Typical use scenarios, setup checks and information to provide when requesting a quotation.

## Product Gallery



Side view



Angled view



Opposite side view

### Typical Applications

- IPX3/IPX4 testing of luminaires and lighting equipment
- Water resistance verification for household appliances
- Ingress protection testing of plugs, sockets, switches and appliance couplers
- Manual spray testing of large electrical enclosures
- Pre-compliance evaluation before formal certification

### Before Quotation / Setup Check

- Applicable standard and required IP level
- Sample type, size, mounting method and orientation
- Water supply pressure, flow control method and hose interface
- Required documentation such as specification, dimensional confirmation or inspection record
- Existing chamber, rain test system or manual bench to be connected

### Maintenance Reminder

After testing, drain residual water and keep the spray head clean and dry. Regularly inspect hole condition, shield movement, connection interface and spray pattern. If hard water is used, periodic cleaning is recommended to reduce scale buildup.

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