

# PREMIER'S IPX3 & IPX4 SPRAY NOZZLES

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- Premier's IP X3/ 4 Spray nozzle is a hand-held test device to verify protection against spraying and splashing water. IPX3 & IPX4 water spray testing is as per International Electrotechnical Commission IEC 60529
- The water pressure can be adjusted using the flow control knob on the device to give the required flow rate.
- The pressure can be seen on the gauge which is convenient positioned by the Spray Tester IP x 3/4.
- The spray pattern of the nozzle is made to the specifications of IEC 60529.
- Removable shield feature makes it easy to test without the interference of the shield.

[www.premierin.com](http://www.premierin.com)

## APPLICATIONS:

- Accurate rainfall and splash simulation for ingress protection testing
- Ideal for electrical panels, luminaries, appliances & enclosures
- Complies with Bureau of Indian Standards BIS and international standards
- Durable stainless steel nozzle for uniform water distribution
- Suitable for laboratory and industrial IP testing applications
- Reliable solution alternative for IPX3 rain test and IPX4 splash test equipment



## TECHNICAL SPECIFICATIONS:

Construction	: Brass and Stainless Steel
Thread Size	: 1/2" BSPT
Pressure Gauge	: 0-2 bar dial gauge. (Digital Gauge on request)
No of Holes	: 121
Orifice Diameter	: 0.5 mm
Water Supply	: Water flow rate is 50~150kPa clean water

### Spray Nozzle Parameters:

External Diameter	: 102 mm
Spherical Diameter	: S75.5mm
Internal Circle of Holes	: 24 holes, included angle 30°
External Circle of Holes	: 96 holes, included angle 15°
Water Flow	: 10L/min ± 5% (Adjustable)
Range of Pressure Gauge	: 0-4 bar
Baffle	: Removable (As per standard requirements)
Site Requirements	: Dedicated IP waterproof test room with flat ground, good inflow and drainage, illumination
Standard Reference	: IEC60529, IEC60598-1, IEC 60335-1, IEC60745-1

### VIDEO LINK:

### SCAN HERE FOR VIDEO:



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# PREMIER'S IPX5 & IPX6 JET NOZZLES

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- The test is made by spraying the enclosure from all practicable directions with a jet of water from the Premiers IP X5/6 test nozzle as shown in figure 6 of IEC 60529.
- This device is used for the verification test of the degree of protection to the risks of water penetration provided by the wrapper of equipment in compliance with the second digit No. 5 (IPX5) and the second digit No. 6 (IPX6) according to IEC 60529.
- The device is a specific Water Jet Hose Nozzle to throw a jet of water. Their use is described in paragraph 14.2.5 of IEC 60529 (IPX5) and in paragraph 14.2.6 of IEC 60529.

## APPLICATIONS:

- Testing of outdoor electrical enclosures and control panels
- Automotive component water jet resistance testing
- EV battery packs and charging system protection verification
- Street lights and outdoor luminaires durability testing
- Marine and coastal equipment water ingress testing
- Industrial machinery wash-down resistance testing
- Pump, motor and switchgear enclosure IP verification
- Testing products for Bureau of Indian Standards BIS certification
- Quality assurance for heavy-duty rain and water jet exposure conditions

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## TECHNICAL SPECIFICATIONS:

Construction	: Brass and Stainless Steel
Nozzle Diameter IPX5	: $\Phi$ 6.3 mm
Nozzle Diameter IPX6	: $\Phi$ 12.5 mm
Water Flow IPX5	: $12.5 \pm 0.625$ L/min
Water Flow IPX6	: $100 \pm 0.625$ L/min
Testing Time	: Not less than 1 min/m <sup>2</sup> or 3 mins, whichever is higher
Distance from Jet Nozzle to Enclosure	: 2.5-3m
Pressure Gauge	: 0 - 2.5 bar dial gauge
Site Requirements	: Dedicated IP waterproof test room. The ground should be flat with illumination with good function of inflow and drainage.
Reference Standards	: IEC60529, IEC60598-1, IEC60335-1, IEC60745-1

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