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PRODUCT SAFETY SOLUTIONS™

IPX5 , IPX6 & IPX6K

IP CODE JET NOZZLES

ED&D Jet Nozzles are high-precision made in exact accordance with the **IEC 60529** requirements, in relation to **IPX5, IPX6** and now **IPX6K** code levels. Used for checking the protection against ingress of water to prove the degrees of protection with the second characteristic numerals 5 "Protected against water jets" and 6 "Protected against powerful water jets". *Found in major product standards such as IEC 60950, EN 60335, IEC 60601, etc.* World Exclusive = ED&D offers **ISO/IEC 17025 Accredited Calibration - - in Scope!**

IP Code	Test Device Test Conditions	Water Flow	Water Pressure	Water Temperature
IPX5	Water jet hose nozzle Figure 6 Nozzle 6.3mm diameter Distance 2.5m to 3m	12,5 l/min ± 5%	n/a	Difference from the temperature of the test specimen not more than 5 º C
IPX6	Water jet hose nozzle Figure 6 Nozzle 12.5mm diameter Distance 2.5m to 3m	100 l/min ± 5%	n/a	Difference from the temperature of the test specimen not more than 5 º C
IPX6K	Water jet hose nozzle Figure 6 Nozzle Ø 6.3mm	75 LPM ± 5%	About 1000 kPa (145 psi) (see note)	Difference from the temperature of the test specimen not more than 5 º C

JET MODELS

Model	IP Code Level/s	Details
JET-01	**IPX5**	6.3mm diameter nozzle
JET-02	**IPX6**	12.5mm diameter nozzle
JET-03 KIT	**IPX5 & IPX6**	6.3mm and 12.5mm diameter nozzles
JET-6K	**IPX6K**	6.3mm nozzle + digital gauge
JET-6K KIT	**IPX5 & IPX6K**	6.3mm and 12.5mm nozzles + digital gauge

"ED&D"
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Regarding the basic differences in the standards' requirements, and or different models, please see a brief summary as follows:

Model JET-01 = IPX5: 6.3 mm diameter nozzle, 12.5 l/min ± 5 % water flow

Model JET-02 = IPX6: 12.5 mm diameter nozzle, 100 l/min ± 5 % water flow

Model JET-03 KIT = Unit with both 6.3mm and 12.5mm nozzles included

TECH NOTE: *ED&D Jet Nozzles utilize a calibrated pressure gauge to indicate the flow of water during IP testing. Use of a pressure gauge is much more economical than that of a digital flow meter. This enables us to minimize the cost of new products as well as annual calibrations. The flow tolerances in the IP Standards are large enough to accommodate this method, providing the optimal balance of cost vs. accuracy. FYI The back of the calibrated gauge will indicate the set points you require.*

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Model JET-6K = DIN 40 050 6K: 6.3 mm diameter nozzle, 75 l/min ± 5 % water flow

So basically, 6K uses an IPX5 nozzle, but at MUCH higher water flow and pressure. [That is why a different, more robust WTR water tank is required, as a higher pressure is required to meet the 6K flow rate (an extra pump and other hardware is added)]. We also added a digital gauge to the device - - this way if you need to test to IPX5 and/or IPX6 and IPX6K, you can do so using the one device.

MODEL JET-6K <u>KIT</u> =

Same as JET-6K but also includes 12.5mm nozzle

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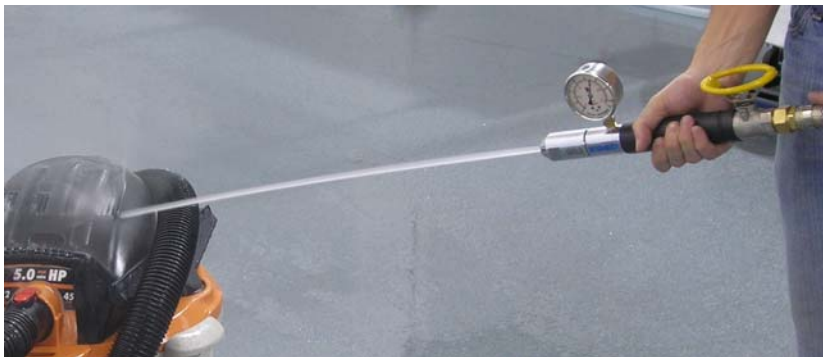
IPX5 , IPX6 & IPX6K



EXCLUSIVE

For the IPX6 test, using the JET-02 nozzle (12.5mm), you will **most likely** need a method to increase your water pressure. Our solution to the issue was to develop and offer our cutting-edge WTR series Water Tank & Pump Systems.

For the IPX6K test, you **will** need our WTR-6K in order to exact the required level of pressure to perform the test.

WTR-01

WTR-02

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IPX5 , IPX6 & IPX6K

|E|D|&|D| EXCLUSIVE

Also for IP Code testing ED&D offers an Exclusive product line of **water-resistant turntables** - - *ask your representative for details*

All JET units are provided with:

- A padded custom-cut protective **carrying case**.
- An **ISO/IEC 17025** Accredited Certificate of Calibration (in Scope) is also included.
- Flex Hose included (but not shown).
- User's Manual
- One year warranty
- Free Lifetime **expert level** Technical Support
- Measurement data or uncertainty data available separately.

ilac-MRA ACLASS ACCREDITED CALIBRATION
AC-1425

MADE IN USA

PATENTS PENDING

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