

When this power wash icon is displayed, this means the fixture is rated IP69.

What is IP69?

The IP69 rating is for applications where high pressure and high temperature wash down are used to sanitize equipment. An IP69 rating for a lighting fixture indicates that it is dust-tight and can withstand high-pressure and high-temperature water and steam. This rating is important for fixtures in industrial and outdoor environments, such as food processing plants, parking lots, and sports fields.

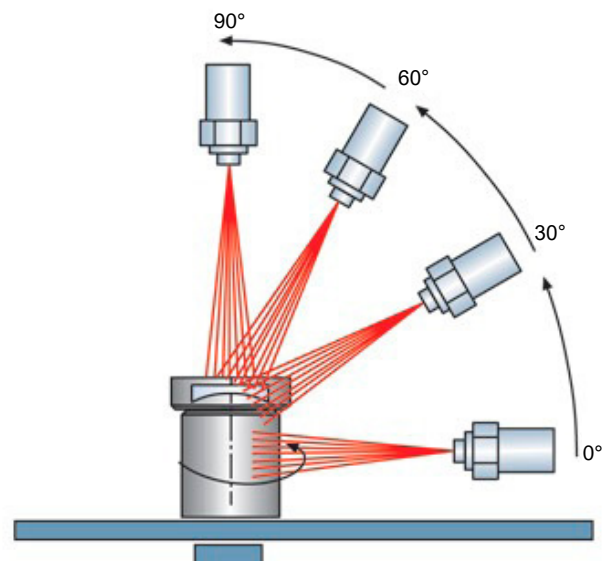
More specifics on IP69

In applications where devices were regularly exposed to high-pressure or high temperature wash downs, the highest ratings of IP68 was sometimes found to be insufficient. Therefore, a special rating was created by ISO to test this intensive cleaning. In the IEC 60529 rating system, the '6' refers to the product's ability to resist ingress of dust. The '9' refers to the product's ability to resist ingress of high temperature (steam) / high pressure water.

To achieve an IP69 rating, a device must pass a water jet test and a steam cleaning test. The water jet test involves subjecting the device to powerful water jets from multiple angles and distances. Only if the device passes this test can it be considered IP69 rated and used in harsh environments with high pressure / steam cleaning.

Testing procedure per ISO 20653: *(depicted in image to right)*

- A spray nozzle that is fed with 80°C water at 80–100 bar (~1160-1450) and a flow rate of 14–16 L/min.
- The nozzle is held 10-15cm from the tested device at angles of 0°, 30°, 60° and 90° for 30 seconds each.
- The test device sits on a turntable that rotates once every 12 seconds.



IP68 and IP69 - The facts

IP68 and IP69 are very different ratings. While both share the same first digit "6" which is protection against the ingress of solid objects and are rated as dust tight, that is where the similarity ends. IP68 is rated for prolonged immersion in water, IP69 as noted above involves pressure washing at high temperatures.