

Ingress Protection - Leak Testing

The IP Code, sometimes interpreted as Ingress Protection Marking, classifies and rates the degree of protection provided against intrusion, dust, accidental contact, and water. The first digit in an IP rating indicates the level of protection against solid particles, whereas the second digit refers to protection against liquids. Checking for leaks by submerging parts underwater while pressurized or using instruments with air or helium to measure the part's integrity are the most common forms of leak detection.

IP (Ingress Protection) Rating Guide

Solids Level of Ingress Protection		Water Level of Ingress Protection	
1	Protected against a solid object greater than 50mm, such as a hand	1	Protection against water drops
2	Protection against a solid object greater than 12.5mm, such as a finger	2	Protection against waters drops at 15 degree angle
3	Protection against a solid object greater than 2mm, such as wire	3	Protection against water spray at 60 degree angle
4	Protection against a solid object greater than 1mm, such as a thin strap	4	Protection against water splashing from any angle
5	Protection from limited dust ingress	5	Protection against water jets from any angle
6	Dust tight. No ingress of dust	6	Protection against powerful jets and heavy seas
<p>Example: IP 65 Dust tight (6) and protected against water jets from any angle (5)</p>		7	Protection against the effects of temporary submersion in water (30 minutes at 3 feet)
		8	Protection against the effects of permanent submersion in water (Up to 13 feet)



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