

Ingress Protection (IP) Chart

Ingress Protection or IP classifies varying degrees of protection for products with an IP rating provided following testing as detailed below

First digit:  
Protection against solids

1

Protected against solids greater than 50mm  
Example: a hand

2

Protected against solids greater than 12.5mm  
Example: a finger

3

Protected against solids greater than 2.5mm  
Example: a screwdriver

4

Protected against solids greater than 1mm  
Example: a wire

5

Protected against dust with limited, non-harmful ingress permitted

6

Completely protected against dust with no ingress permitted

Second digit:  
Protection against liquids

1

Protected against vertically falling water drops with limited ingress permitted

2

Protected against vertically falling water drops with enclosure tilted up to 15°, limited ingress permitted

3

Protected against water sprays up to 60° from the vertical, limited ingress permitted

4

Protected against water splash from all directions with limited ingress permitted

5

Protected against water jets with limited ingress permitted

6

Protected against powerful water jets with limited ingress permitted

7

Completely watertight against immersion effects in water between 15cm and 1m for 30 minutes

8

Completely watertight against immersion effects in water under pressure for long time periods

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\*when used in conjunction with rubber gaskets (page 43)