








## IP ratings Chart



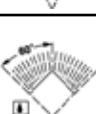


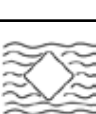



(ingress Protection to BS EN 60529:1992)

The first digit on an IP rating determines the level of protection against solid objects. The second digit is the level of protection against water.

### 1st digit - protection against solid objects

	0	No protection/No test required
	1	Protected against objects greater than 50mm diameter
	2	Protected against objects greater than 12.5mm diameter such as a finger.
	3	Protected against objects greater than 2.5mm
	4	Protected against objects greater than 1.0mm such as wire.
	5	Ingress of dust is not totally prevented but dust does not enter in harmful quantities to interfere with the correct operation or impair safety
	6	No ingress of dust permitted

### 2nd digit - protection against water

	0	No protection/No test required
	1	Protected against falling drops of water.
	2	Protected against drops falling at 15° in 4 fixed positions
	3	Low pressure spray - similar to shower head at up to 60° from vertical tested using an oscillating tube with an arc of 60° for 10 minutes
	4	Low pressure spray - similar to shower head – as per numeral 3 but 180° for 10 minutes
	5	Medium pressure jet – 6.3mm diameter, similar to garden hose - from any angle for 3 minutes at a distance of 2.5-3 metres
	6	High pressure jet – 12.5mm diameter, similar to fire hose - from any angle for 3 minutes at a distance of 2.5-3 meters
	7	Immersion - for temporarily immersion in water under set conditions - 1 metre for 30 minutes
	8	Protected against the effects of continuous immersion in water, Ingress of water in quantities causing harmful effects shall not be possible. Conditions should be more severe than for numeral 7
	9	Steam clean, high pressure high temp jet wash to DIN40050(German std), extends BS EN 60529:1992