







Ingress protection

The designation to indicate the degrees of protection consists of the characteristics letters IP followed by two numerals. The first numeral indicates the degree of protection as well as the second one against harmful ingress of water

Description	Symbol	1th Number
No protection		0
Protection against solid foreign bodies $\varnothing \geq 50\text{mm}$		1
Protection against solid foreign bodies $\varnothing \geq 12\text{mm}$		2
Protection against solid foreign bodies $\varnothing \geq 2.5\text{mm}$		3
Protection against solid foreign bodies $\varnothing \geq 1\text{mm}$		4
Protection against dust		5
Dust-tight		6

Description	Symbol	2th Number
No protection		0
Protected against vertically dripping water		1
Protected against diagonally dripping water (angle of 15° from above)		2
Protected against diagonally water spray up to an angle of 60° from above		3
Protected against water splashes from any direction		4
Protected against jets of water		5
Protected against temporary immerision in water		6
Protected against permanent submersion in water. Specific testing conditions must be agreed, specially with regard to high-pressure cleaning equipment.		7
Protected against permanent submersion in water. Specific testing conditions must be agreed, specially with regard to high-pressure cleaning equipment.		8