

Understanding IP Rating

IP stands for Ingress Protection

IP Ratings are composed of 2 digits. The 1st digit relates to protection from solid or foreign objects, including dust. The 2nd digit relates to protection against ingress of moisture. The higher the rating is, the greater the protection.

For example, the SKINTOP[®] ST-M series has a IP 68. This means that the gland provides both the protection against the ingress of dust and protection against indefinite submersion in water under stated conditions of pressure

IP 6 8

Protection against solid or foreign bodies		Protection against liquids and moisture	
1st figure	Scope of protection	2nd figure	Scope of protection
0	No protection	0	No protection
1	Protection against penetration of large solid foreign bodies with a diameter larger than 50 mm.	1	Protection against dripping water falling vertically.
2	Protection against penetration of medium solid foreign bodies with a diameter larger than 12mm	2	Protection against dripping water falling at an angle of 15° to the vertical.
3	Protection against penetration of small solid foreign bodies with a diameter larger than 2.5 mm.	3	Protection against sprayed water which falls at any angle up to 60° to the vertical.
4	Protection against granula foreign bodies of a thickness greater than 1.0 mm.	4	Protection against water which splashes from all directions on to the enclosure
5	Protection against harmful dust accumulations. The penetration of dust is not completely prevented, but the dust may not penetrate in such quantities that the mode of operation is restricted.	5	Protection against water jet from a nozzle, which is directed from any direction against the enclosure
6	Protection against the ingress of dust	6	Protection against temporary flooding, e.g. in heavy seas
		7	Protection against immersion in water under the prescribed pressure and time conditions.
		8	Protection against indefinite submersion in water under stated conditions of pressure.