Understanding IP Ratings

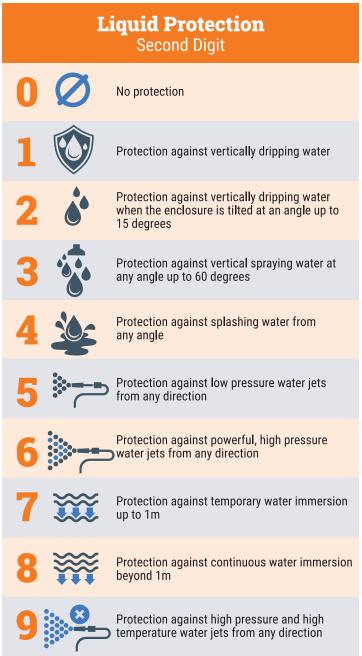
To ensure products are protected against foreign debris and liquids, they are given an Ingress Protection (IP) rating to show they are built to function in certain environments. IP ratings consist of "IP" followed by two numbers and occasionally a letter.

The first number indicates protection against solids, while the second number indicates protection against liquids.

The higher the number, the higher level of protection provided.



Solid Protection First Digit No protection Protection against objects with a diameter greater than 50mm, such as large surface of the body (the back of a hand) but no protection against deliberate contact with a body part Protection against objects with a diameter greater than 12.5mm, such as fingers or similar objects Protection against objects with a diameter greater than 2.5mm, such as tools, thick wires, etc. Protection against objects with a diameter greater than 1mm, such as most wires, screws, and fine tools Dust protected but not entirely prevented, causing limited ingress of dust Dust tight with complete protection against ingress



Duff-Norton linear actuators have varying IP ratings based on their intended use. For use in robust industrial applications, our IP66-rated linear actuators, including LT, SPA, XT, and CMLA, are ideal for safe, precise, and repeatable positioning.

Plus, custom solutions are available to meet unique and challenging application requirements.



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