

IP69K

PROTECTION IP69K FOR HIGH-PRESSURE HIGH-TEMPERATURE WASH-DOWN APPLICATIONS

IP69K:

The IP69K is the IP Code (Ingress Protection Rating) for the classification of devices subjected to high-pressure jet, high-temperature wash-down applications. The International Standard ISO 29653 and DIN 40050-9 extend the IP ratings to the maximum protection mode IP69K.

Tests:

The tests for the verification of IP69K require to submit the device to high-pressure water jets, at four different angle positions (0°, 30°, 60°, 90°) for a minimum of 30 seconds on each position. The distance between the nozzle and the test specimen is only 100 to 150 mm at 100 bar and a temperature of 80°C. The specimens are located on a rotary test table turning at 5 r.p.m. for making a high load of minimum 15l/min on all directions.



Certificate of compliance done by independent institute:

For ensuring the rating IP69K on an independent and objective way, UTILCELL have successfully passed the tests done by the independent institute TÜV SÜD SENTON GmbH on hermetically sealed load cell samples of Model 300, Model 350 and Model 740, showing the good technical solution on their design and implementation, specially dedicated on critical points as weldings of protection covers, housing and cable entry.

Applications:

The load cells with Ingress Protection Rating of IP69K are the most adequate and reliable for applications that need regular intensive cleaning as food industry, truck and vehicle cleaning and also finds use in other industrial areas.

Additional recommendations:

On any application it is recommended to keep the “good practices” of the sector and specific application. In the particular case of the extremely rough condition of high clearing requirements under water jets it is particularly recommendable to keep a adequate cable piping and cable connection into hermetic junction boxes and to design the system and its maintenance plan for ensuring an absolute drain and to avoid long periods of water immersions.