

TECHNICAL FEATURES

WATER-RESISTANCE

MARKING ON BACK OF WATCH	MEANING*	RAIN, HAND-WASHING	SHOWERING, WASHING UP, HOUSEWORK AND BATHING	SWIMMING, SNORKELING
none	not water-resistant	no	no	no
3 bar	 water-resistant to 30 m	yes	no	no
5 bar	 water-resistant to 50 m	yes	yes	yes
30 bar	 water-resistant to 300 m	yes	yes	yes

* The values given in metres are equivalent to the degree of superpressure applied under the ISO 22810 norm for the test series described in section 6.2.6.

THERE'S WATER-RESISTANCE AND THERE'S WATER-RESISTANCE

Longines watches are approved under the criteria applied for the international ISO 22810 norm. Given that the constraints of actually wearing a watch cannot all be simulated in a laboratory, Longines recommends that its customers allow a safety margin according to the table above.

A range of methods are used to check the water-resistance of watches depending on the level of protection required. Although the use of sealing gaskets confers a certain degree of imperviousness, it is how the watch is constructed that is instrumental in determining its ability to keep water and dust out. There are a number of parts in particular that play a crucial role in ensuring a watch's water-resistance: the case back and the crown, the glass and in principle all the elements that make up the case.

In general, water-resistance cannot be guaranteed for an unlimited time. It may be affected by the natural wear of the gaskets or by an accidental shock which may deform the moving parts of the case. For reasons of safety, we recommend that you have your watch checked for water-resistance regularly a year by an approved Longines agent.

SCREW-DOWN CASE BACK AND SCREW-IN CROWN



SCREW-DOWN CASE BACK

Water-resistance is an essential feature of any high-performance sports watch. It is a reflection of the precision and avant-garde technology used in its construction and, in addition, provides it with the prestige associated with superior know-how.

A water-resistant watch must have a high-quality case. A screw-down case back means that the watch's water-resistance is ensured over a longer time. It guarantees water-resistance up to a superpressure equivalent to 30 bar*.



SCREW-IN CROWN

Like the screw-down case back, it is also how the crown is constructed that plays an essential role in guaranteeing water-resistance. To facilitate setting and (for mechanical watches) winding operations, the case must incorporate an opening. This opening, however, is also a potential entry point for water or dust.

To eliminate this weak point, the winding stem is inserted into a tube which, in turn, is inserted into the case. The crown then screws into the thread of the tube and gaskets are fitted to further enhance water-resistance.