

# OMEGA



## TECHNICAL GUIDE

N° 47 1971

### **A new type of diver's watch: the SEAMASTER 600 PROFESSIONAL**

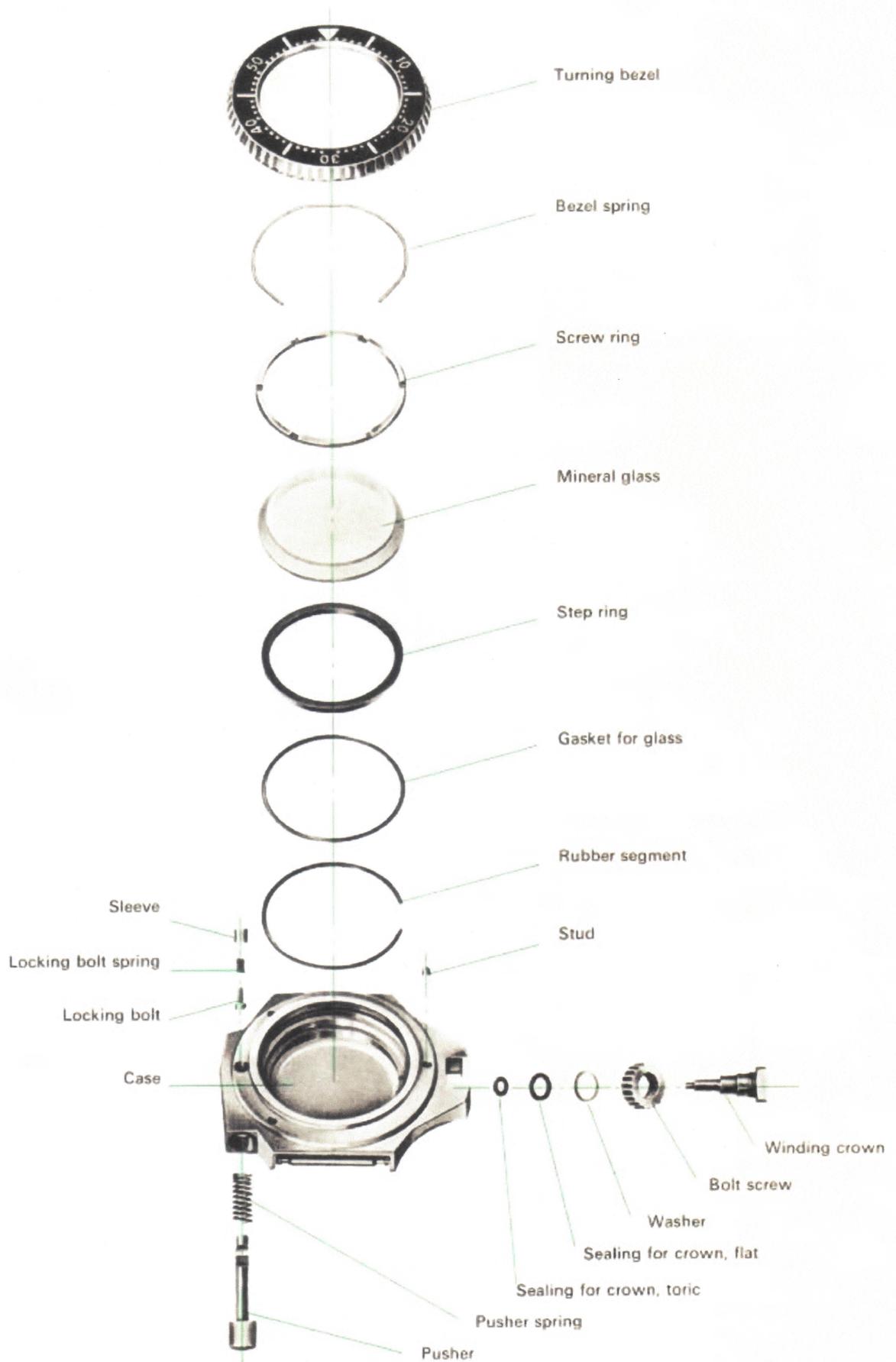
*Extensive research has led us to create the SEAMASTER 600 PROFESSIONAL, a diver's watch guaranteed to 60 atm., and tested at 100 atm. (security coefficient: approx. 2). The prime object of creating this watch, is to produce an absolutely waterproof and robust diver's watch for professional divers and sports enthusiasts alike.*

*The SEAMASTER 600 PROFESSIONAL is equipped with a movement cal. 1002, offering the latest technical advantages, distinguishing this diver's watch as an outstanding precision instrument.*

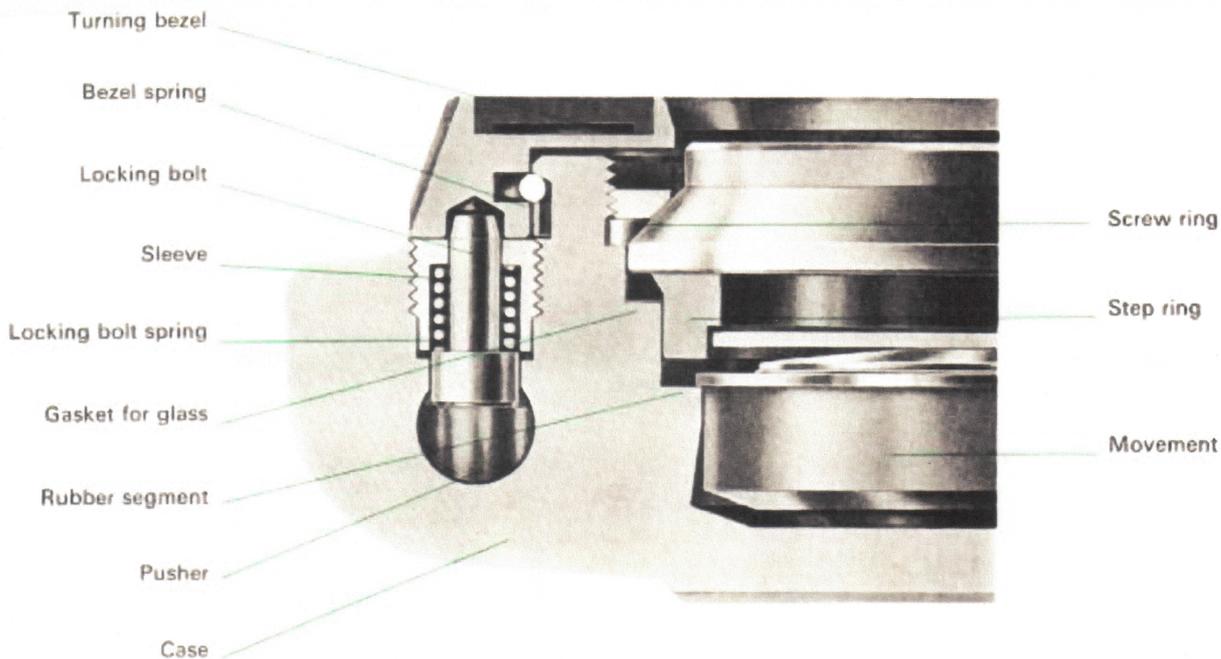
#### **Characteristics**

1. Case made in one solid piece.
2. Chemically hardened mineral glass.
3. Patented waterproofing system.
4. Patented winding crown with double sealing.
5. Turning bezel with locking system.
6. Perfect reading at great depths.

## Components of case

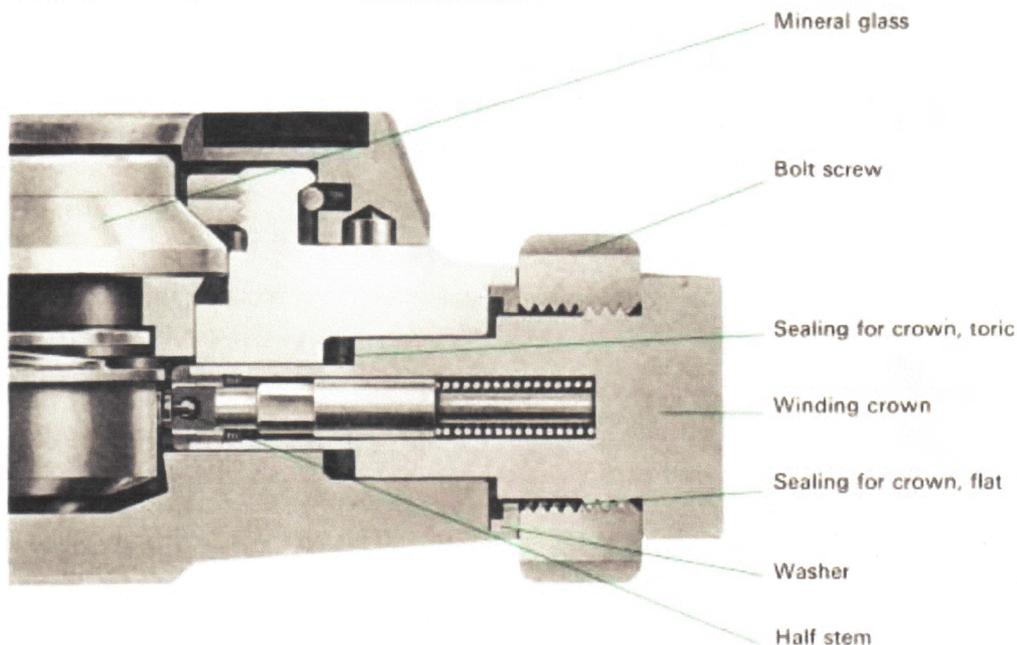


### Sectional view of the case



The mineral glass, tightly secured by the screw ring, applies a strong pressure towards the gasket for the glass and the step ring. The movement is positioned by the winding stem and rigidly secured within the case by means of the rubber segment. By tightening the screw ring, the rubber segment presses the step ring against the glass, preventing the gasket from becoming dislodged.

### Crown with double sealing



By tightening the bolt screw, the winding crown is drawn towards the case and an axial pressure is exerted on the sealing rings; thus double waterproofing is achieved. When the bolt screw is unscrewed, the winding crown is automatically moved to the winding position. To effect the hand-setting and change of date, proceed as with a normal crown.

## Turning bezel

The turning bezel has luminous minute divisions which enables the diver to check the elapsed diving time and decompression stages while surfacing. In order to effect this timing, the index on the bezel has to be aligned with the minute hand before submerging. For this purpose, the pusher is pressed towards the case, thus unlocking the bezel which may then be positioned as desired. The pusher controls the locking bolt which engages with the holes on the lower part of the bezel. When the pusher is released, the turning bezel is rigidly positioned.

## Uncasing of movement      Dismantling of case

1. Remove turning bezel by inserting a casing knife in the nick between case and turning bezel.
2. Unscrew the screw-ring for glass by means of the claw-key No. 208, the case being placed on the holder No. 1120.
3. Remove the glass.
4. Remove step-ring, gasket and rubber segment.
5. Unscrew the bolt-screw for crown.
6. Turn the crown until the slit of the half-stem is in a vertical position.
7. To extract the movement, turn the watch over and the movement will come out of its own accord.
8. Remove crown and bolt-screw for crown.
9. To remove the 3 studs, turn the case over. The studs are held in their seatings by a light film of grease.
10. To remove the locking system for the turning bezel: unscrew the sleeve, press the pusher, withdraw the sleeve, locking bolt spring and locking bolt pivot. After this operation, the pusher and its spring are easily removed.

## Casing-up of movement

1. Fit the bolt-screw for crown and the crown.
2. Bring the slit of the half crown-stem to a vertical position.
3. Place the head of the half movement stem in a perpendicular position to the dial.
4. Set the movement, complete with dial and hands, in the case, **at the same time** inserting the head of the half movement stem in the slit of the half crown stem.
5. Screw the crown completely in order to align the 2 half-stems in the axle of the movement.
6. Place the rubber segment in position so that the sectioned part is centered on the crown axle.
7. Fit the step-ring complete with gasket.
8. Place the glass in position.
9. By using the setting tool, screw the bolt-screw for glass until the paint-mark on the latter faces the countersinking of the crown bolt-screw, that is, within an angle of 18°. In the event of replacement of a gasket, step-ring, glass or bolt-screw, the tolerances of these items will determine the degree of tightening, which will no longer be identical to that originally applicable. In such case, it is essential to tighten the bolt-screw to the maximum; moreover, it is advisable to make a new paint-mark opposite the countersinking of the crown bolt-screw.
10. Fit the turning bezel.
11. Check waterproofness.