



VESUVIATE

FEATURES (ATTIVO)

Case & Bracelets – Stainless steel 316L with case/surface hardening heat treatment. SS 316 has very low carbon content with a maximum of only 0.035% and has corrosion and magnetic resistance; hence, it is widely used in the food and medical industries, as well as diving equipment and marine applications. Despite its relatively good hardness @ 222HV (HV = Vickers Hardness) compared to the 904L @ 149 HV, we have decided to use case hardening heat treatment to harden the surface of the 316L to the hardness value of 1,100HV +/- 10% to improve the wear resistance further. The “thermos-chemical process” diffuses nitrogen into the surface of the 316L, bombarding the surface with energetic nitrogen ions, which allow nitrogen ions to diffuse and form a case-hardened surface (Note: This is NOT a “coating” process per se of merely applying coating/covering material onto the surface of the 316L!). Through the heat treatment process, the 316L will not only become more scratch resistant, but its performance, working lifespan, strain limit, and fatigue strength will also be enhanced, another advantage of this process is the low temperature range to avoid shape distortion which maintains the 316L corrosion resistance properties.

*Note. This heat treating process has existed since the 1920s; however, it only started gaining popularity in the last three decades. Due to its increasing popularity, further developments were made to create a more efficient process that can be accurately controlled with lower costs. Vesuviate Watches is neither the inventor nor the proprietary owner of this industrial heat treating process (Disclaimer – The use of such process does not infringe or require Patents or other intellectual property rights of any Third Party).

Case dimensions – 39mm width with a lug-to-lug length of 46.2mm. The overall thickness is 11.0mm measured at the apex of the sapphire (dome height 0.55mm), thus making it a rather slim tool watch with a thickness of just 10.45mm. (at edge height).

Crown – 7mm diameter, screw down SS 316L.

Bracelets dimensions – 24mm connected with central links at 16mm between the lugs with solid links, butterfly deployant clasp – 22mm. All components SS 316L, case/surface-hardened.

Watch Crystal – 2.55mm thick Domed Sapphire Crystal with five (5) layers of inner anti-reflective coatings. Sapphire is chosen in favor of mineral crystal for its resistance to scratches and shattering. Similar to Ceramic, the hardness of Sapphire is 2,000HV.

Lume – Super-LumiNova – BGW9 (Day - White, Night - Blue-Green), Grade A pigment is chosen for the excellent afterglow performance. This material is 100% Swiss made, non-radioactive, REACH compatible, high temperature, environmental resistance, and complies with ISO 3157:1991 requirements.

Water Resistance – Rating - 10 ATM / 100m / 330ft. This watch is designed to withstand underwater depths of at least 100 meters which meets the ISO 6425 requirement. Hence, it is safe for recreation sports such swimming, free/skin diving.

Case Back – Exhibition flat Sapphire Crystal with inner anti-reflective (AR) coating.

Movement/Caliber – The heart of the watch – Miyota 9015 Gilt caliber, is considered to be the workhorse of the industry. Since 2009, it's been widely considered to be a proven movement that is easy to service; it is also one of the slimmest automatic calibers at just 3.90mm thick. It is equipped with quick date correction via hacking – i.e. time setting with the second hand halt mechanism, self-winding – unidirectional, 24 jewels with a typical power

reserve of 42 hours, frequency of 28,800 beats per hour, 4 Hz (Eight vibrations a second, providing a smooth action second hand but are unlike the high-beat movements i.e. $\geq 36,000$ vph that are subjected to internal strain which requires more frequent maintenance to deal with the added friction), accuracy of $-10 \sim +30$ second (per day). Note: Miyota has just started offering the fully factory original gilt plated caliber for their 9015 caliber from 2019; you can rest assured that you have the newest caliber from Miyota.

Features – Hours, minutes, central running seconds. Date display in window.

Warranty – Our watch is warranted for two (2) years from the date of purchase against any and all manufacturer's defects. Any damage resulting from improper handling, extreme use, accident or negligence is not covered under this warranty.

SPECIFICATION SUMMARY:

Dimensions:	Width 39mm x Length 46.2mm x Thickness 11.00mm (At the apex of sapphire)
Case & Bands:	Stainless Steel 316L case hardened to 1,100HV +/- 10% heat treatment
Crystal:	2.55mm thick Domed Sapphire 2,000HV with inner anti-reflective (AR) coating
Case back:	Flat Sapphire Crystal 2,000HV exhibition case back with inner AR coating
Movement:	Miyota 9015
Power reserve:	42 hours (Typical)
Accuracy:	$-10 \sim +30$ sec (per Day)
Frequency:	28,800 vph (vibrations per Hour)
Jewels:	24 pcs
Rotor Winding:	Unidirectional, Clockwise
Anti-shock:	Parashock Shock Protection System
Bracelet / Strap:	24mm, Stainless Steel 316L case hardened to 1,100HV +/- 10% heat treatment
Water resistance:	10 ATM / 100m / 330ft
Indicators:	Hours, minutes, seconds, date. Swiss Super-LuminNova BGW9, Grade A
Weight:	164 gm (complete with all the links)
Designed:	Singapore