Ministry for Economic Development

DIRECTORATE GENERAL FOR THE MARKET, COMPETITION, CONSUMER PROTECTION AND TECHNICAL REGULATIONS
Division VIII – Measuring instruments and precious metals

Ministerial Decree of 13/10/2020 no. 237327 with which the tyre pressure gauges for motor vehicles called “60 D/T” and “60 G/T” are admitted to metrological verification and legalization.

THE DIRECTOR

HAVING REGARD TO Royal Decree no. 226 of 12 June 1902, laying down the regulations on the manufacture of weights, measures and instruments for weighing and measuring, and all subsequent amendments and additions thereto, with specific reference to Presidential Decree no. 1215 of 12 November 1958 and Presidential Decree no. 622 of 22 August 1972;

HAVING REGARD TO EEC pattern approval certificate D88 18.08.01 No.3.13-15235/88 of 12/10/1988 and all subsequent amendments and additions thereto, concerning tyre pressure gauges for motor vehicles;

HAVING REGARD TO UNI EN 12645:2014: Tyre pressure measuring instruments - Devices for inspection of pressure and/or inflation / deflation of tyres for motor vehicles - Metrology, requirements and testing;

HAVING REGARD TO the application of 13/01/2020 by GAV srl, of Brendola (VI), and subsequent additions, regarding the request for admission to metrological verification and legalization of pressure gauges for motor vehicle tyres;

HAVING REGARD TO the positive outcome of the assessment,

DECREES:

Article 1

1. The pressure gauges for motor vehicles referred to as ***“60 D/T”***, in the version with a 63 mm diameter, and ***“60 G/T”***, in the versions with a 63 mm and an 80 mm diameter are admitted to metrological verification and legalization.
2. The instruments, as a whole, make it possible to increase, control and regulate the pressure of motor vehicle tyres.
3. The descriptions and characteristics of the “60 D/T” and "60 G/T” instruments, in the different versions, are listed in annexes I, II and III, that consist of a total of 21 pages and are an integral and substantial part of this decree.

4. The plate bearing the regulatory inscriptions, secured by legal seals, must list the following information:
   - manufacturer's name or corporate name and trademark;
   - name of the instrument model and version;
   - details of the provision for admission to the metrological verification;
   - year of manufacture and serial number;
   - measuring range;
   - scale division;
   - temperature of use.
5. The current regulations in force, being applicable, are applied to the initial and periodic verifications and the other metrological controls, taking into account the characteristics described in this decree and in the annexes.
6. The legalization plans for the instruments are set out in pages 7, 14 and 21.

Article 2

1. It is mandatory for the manufacturer and the user to provide the officials with the Italian version of the user manual for the instrument, on the occasion of the initial and periodic verifications and for the equivalent metrological and supervision controls.
2. The documentation produced by GAV srl is filed in the official records of this division and is registered with the number 10969.
3. On the occasion of the initial verification, the manufacturer of the measuring device must note on the presentation form 8, provided for in Art. 37 of the Administrative Instructions in force, approved with Ministerial Decree no. 166779 of 8 December 1909, the declaration provided for in point 2.1. of the Ministerial Circular n° 552689/62 of 17 September 1997, with which the manufacturer declares, on his sole responsibility, that the instruments presented for verification have the following characteristics:
   a) they comply with the technical documentation filed with Division VIII;
   b) they do not allow alteration of data regarding the business transaction, except for removal of the verification stamps and obvious malicious acts;
   c) they do not allow programming of parameters regarding the metrological characteristics, unless verification stamps are removed or in the case of obvious malicious acts.

Article 3

1. The authorization issued with this decree is granted solely for metrological purposes, and the Company is responsible for any non-compliance with existing provisions on non-metrological matters.
2. It is possible to file an appeal against this decree to the Director General of the Directorate General for the market, competition, consumer protection and technical regulations within 30 days from the date of its notification.

THE DIRECTOR
Ing. Daniela La Marra

ANNEX I TO Ministerial Decree No. 237327 of 13/10/2020

TYRE PRESSURE GAUGES CALLED "60 D/T" (version with 63 mm diameter)

1. Brief description

The instrument is used to measure the pressure of motor vehicle tyres and complies with UNI EN 12645:2014.

It consists of a die-cast aluminium body to which the components are mounted as illustrated in the exploded view **(Fig. 1)**.

The measuring device consists of a pressure gauge with a 63 mm diameter, branded WIKA, provided with EEC pattern approval certificate D88 18.08.01 N° 3.13-15235/88.

The pressure gauge is sealed to the body of the instrument, as illustrated in the attached drawings.

2. Technical characteristics

Aluminium inflation and deflation handle
Zinc-plated iron trigger
Flexible hose with chuck
Pressure gauge diameter 63 mm
Measuring range 0 ÷ 10 bar
Scale division 0.1 bar
Operating temperature -10 °C ÷ +40 °C

3. Operating stages

The stages are illustrated in the corresponding drawings below, specifically:

- Tyre pressure measuring stage (Fig. 2)

Press the lever on the chuck and insert it on the valve stem of the tyre; by doing so the air chamber of the tyre connects to the inflation gun and the tyre pressure is indicated on the dial of the pressure gauge.

- Tyre pressure deflation stage (Fig. 3)

By pressing the button on the inflation gun the air chamber of the tyre connects with the discharge circuit on the gun, the air is released to the atmosphere, the pressure reached in the tyre is indicated on the dial of the pressure gauge.

- Tyre pressure inflation stage (Fig. 4)

Connect the air/nitrogen supply tube to the inflation gun.

By pulling the trigger all the way the rear spring compresses, and by doing so the air chamber of the tyre connects with the supply circuit, the tyre pressure is indicated on the dial of the pressure gauge; the supply pressure must be greater than the target tyre pressure.

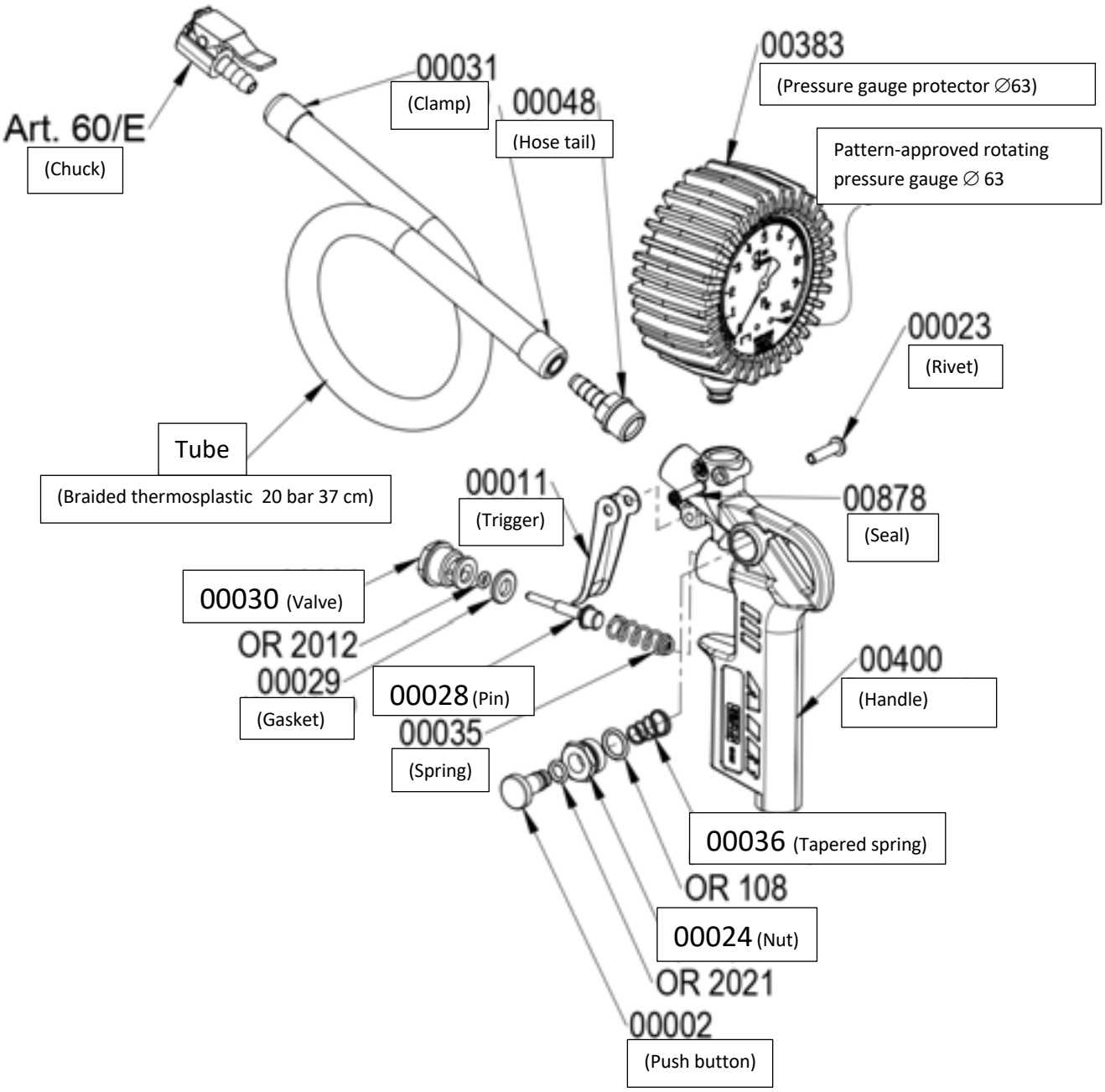


FIG. 1 – EXPLODED VIEW OF TYRE PRESSURE GAUGE “60 D/T” (vers. 63 mm)

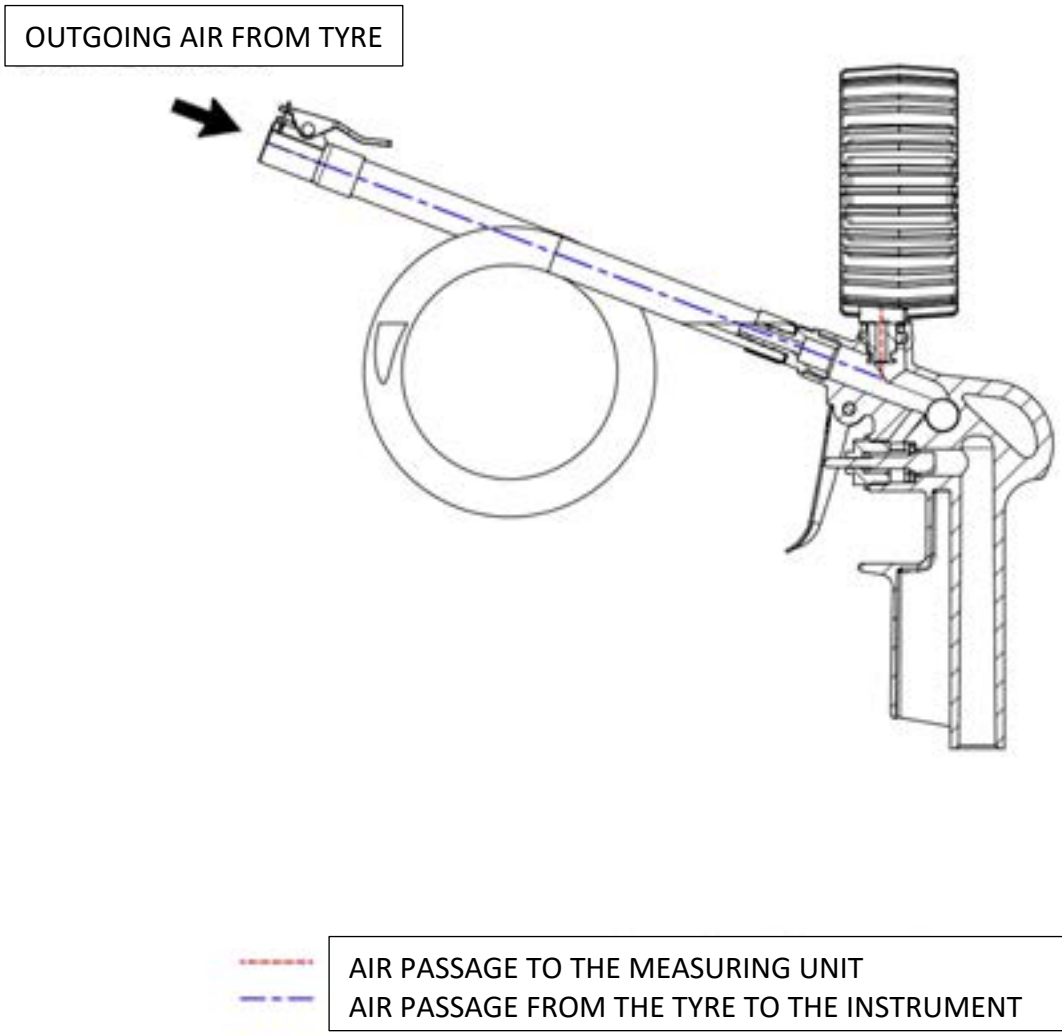


FIG. 2 – TYRE PRESSURE GAUGE “60 D/T” (vers. 63 mm)

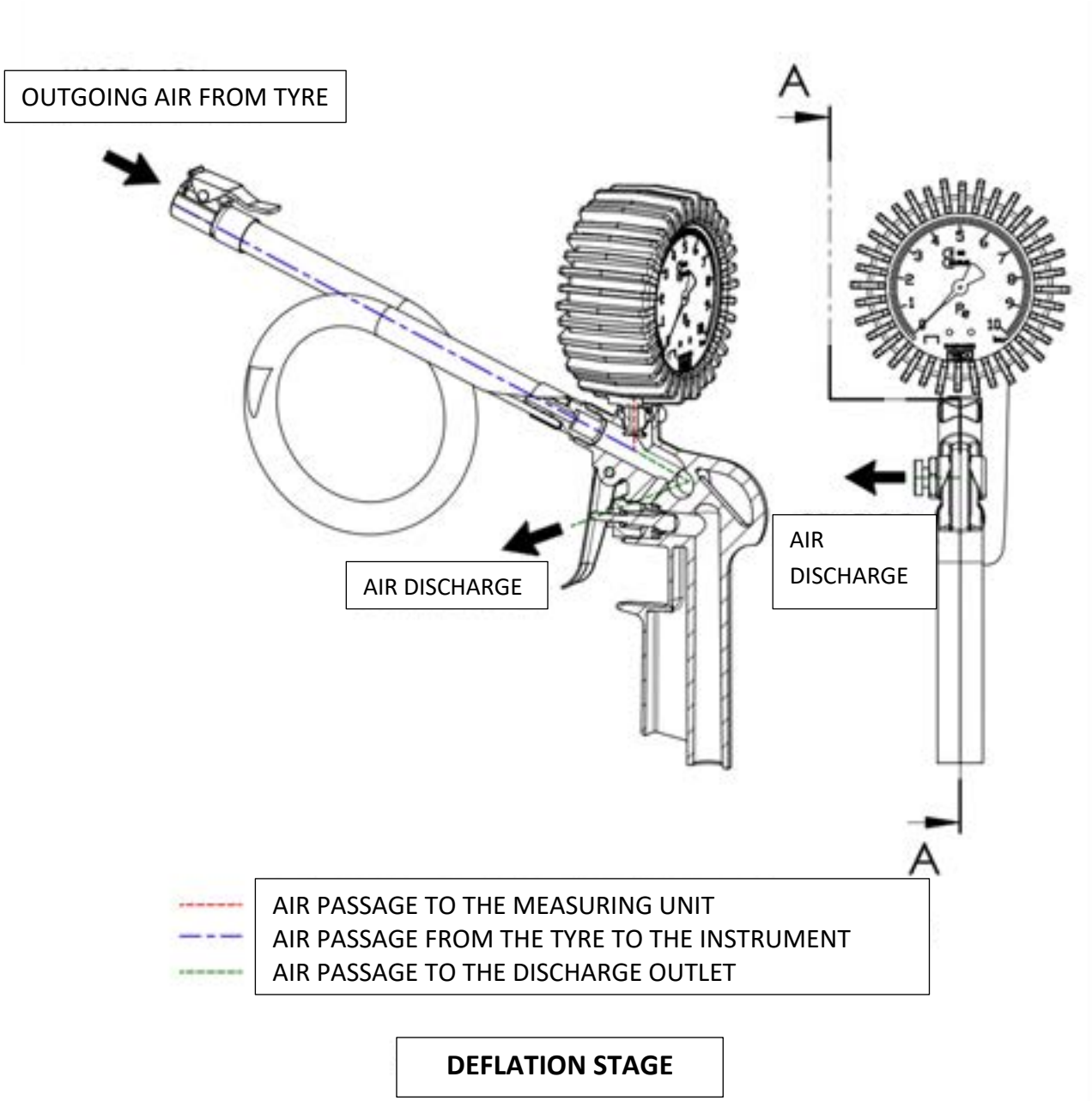


FIG. 3 – TYRE PRESSURE GAUGE “60 D/T” (vers. 63 mm)

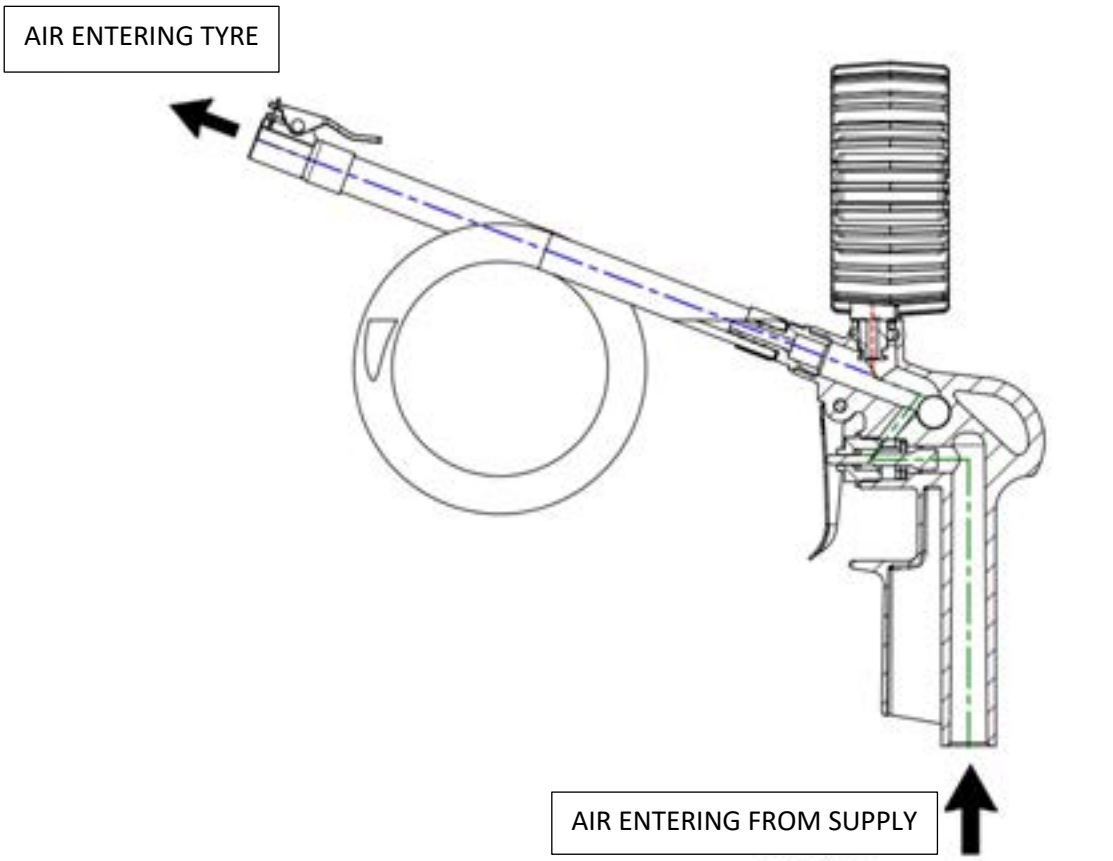
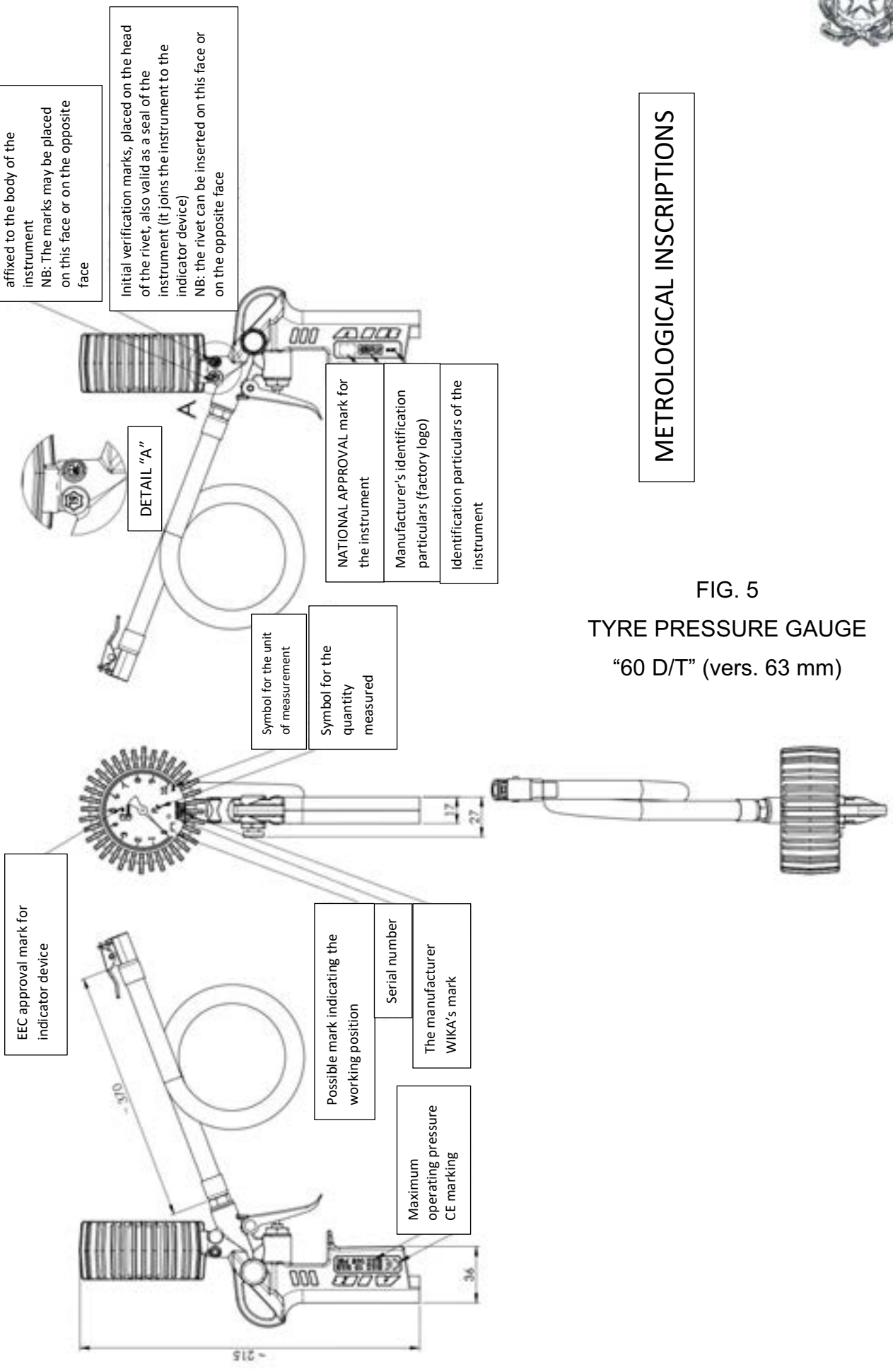


FIG. 4 – TYRE PRESSURE GAUGE “60 D/T” (vers. 63 mm)



METROLOGICAL INSCRIPTIONS

FIG. 5

TYRE PRESSURE GAUGE

"60 D/T" (vers. 63 mm)

ANNEX II TO Ministerial Decree No. 237327 of 13/10/2020

TYRE PRESSURE GAUGES CALLED "60 G/T" (version with 63 mm diameter)

1. Brief description

The instrument is used to measure the pressure of motor vehicle tyres and complies with UNI EN 12645:2014.

It consists of a resistant plastic body to which the components are mounted as illustrated in the exploded view **(Fig. 6)**.

The measuring device consists of a pressure gauge with a 63 mm diameter, branded WIKA, provided with EEC pattern approval certificate D88 18.08.01 N° 3.13-15235/88.

The pressure gauge is sealed to the body of the instrument, as illustrated in the attached drawings.

2. Technical characteristics

Plastic inflation and deflation handle
Nickel-plated iron trigger
Flexible hose with chuck
Pressure gauge diameter 63 mm
Measuring range 0 ÷ 10 bar
Scale division 0.1 bar
Operating temperature -10 °C ÷ +40 °C

1. Operating stages

The stages are illustrated in the corresponding drawings below, specifically:

- **Tyre pressure measuring stage (Fig. 7)**

Press the lever on the chuck and insert it on the valve stem of the tyre; by doing so the air chamber of the tyre connects to the inflation gun and the tyre pressure is indicated on the dial of the pressure gauge.

- **Tyre pressure deflation stage (Fig. 8)**

By pressing the button on the inflation gun the air chamber of the tyre connects with the discharge circuit on the gun, the air is released to the atmosphere, the pressure reached in the tyre is indicated on the dial of the pressure gauge.

- **Tyre pressure inflation stage (Fig. 9)**

Connect the air/nitrogen supply tube to the inflation gun.

By pulling the trigger all the way the rear spring compresses, and by doing so the air chamber of the tyre connects with the supply circuit, the tyre pressure is indicated on the dial of the pressure gauge; the supply pressure must be greater than the target tyre pressure.

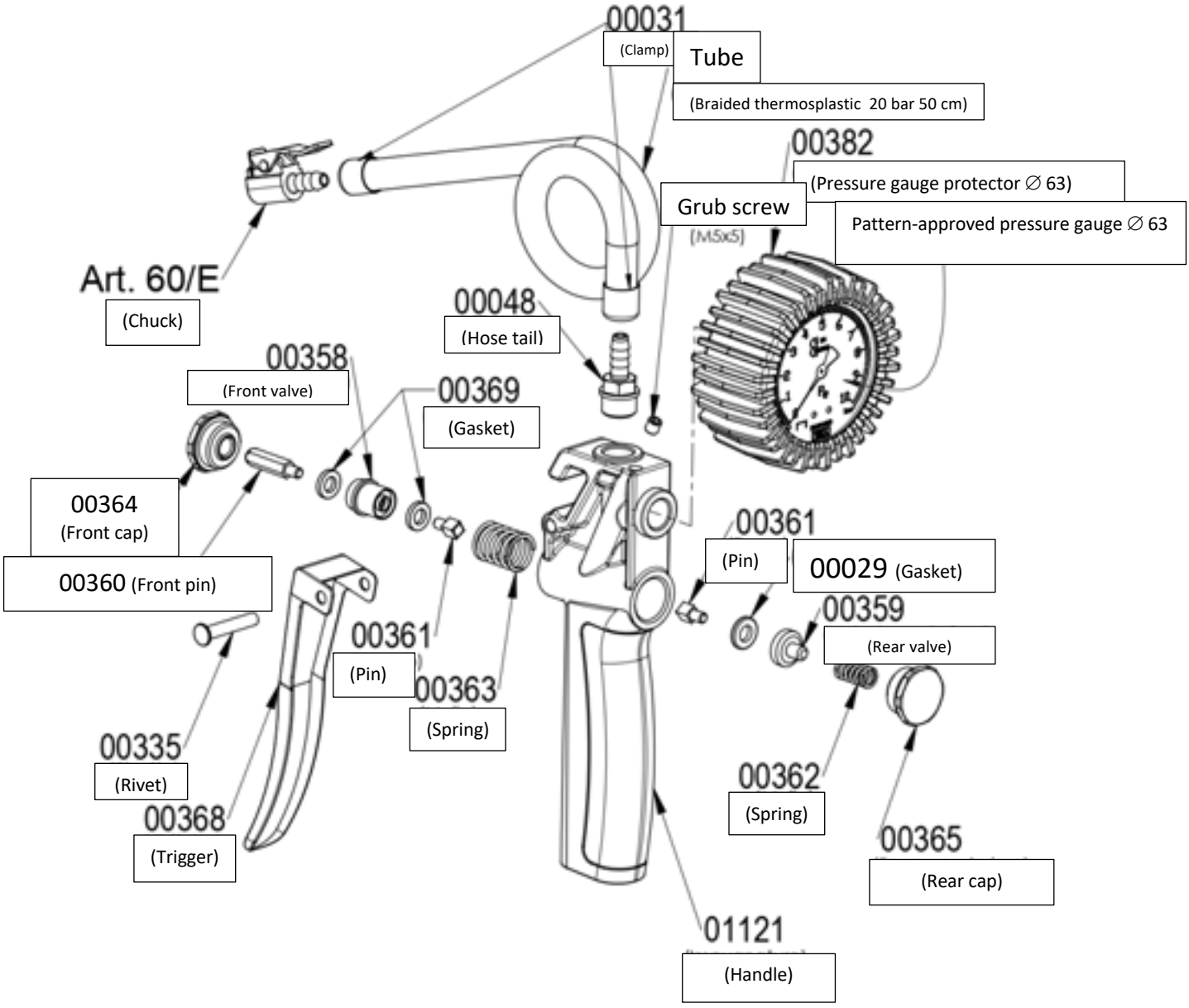


FIG. 6 – EXPLODED VIEW OF TYRE PRESSURE GAUGE “60 G/T” (vers. 63 mm)

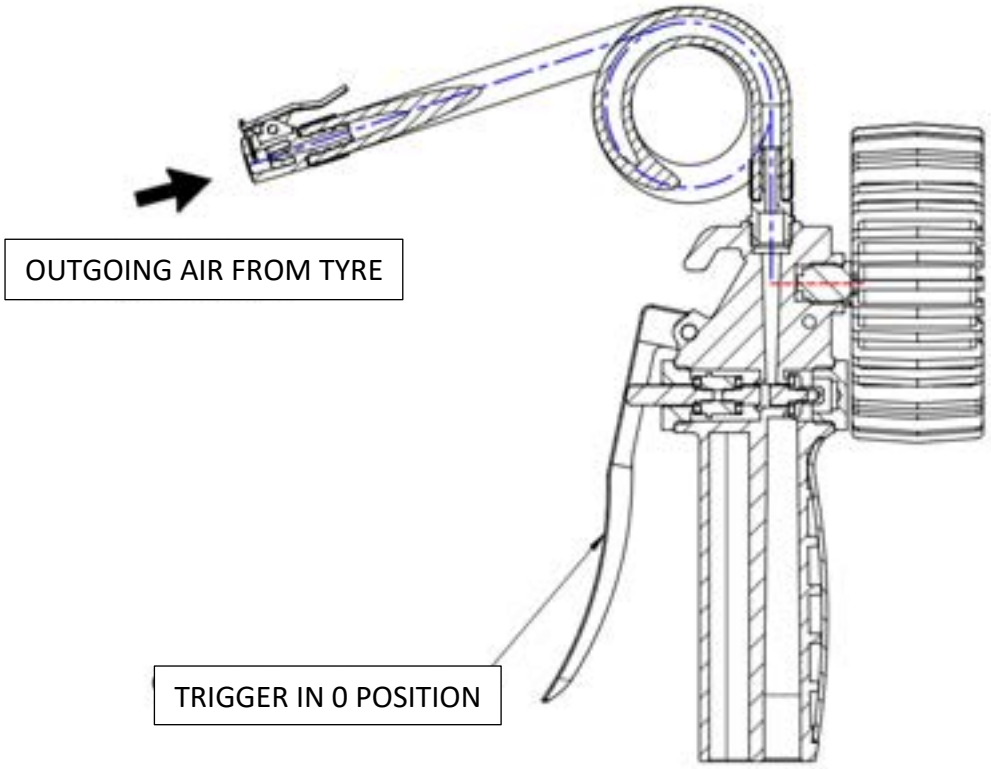


FIG. 7 – TYRE PRESSURE GAUGE “60 G/T” (vers. 63 mm)

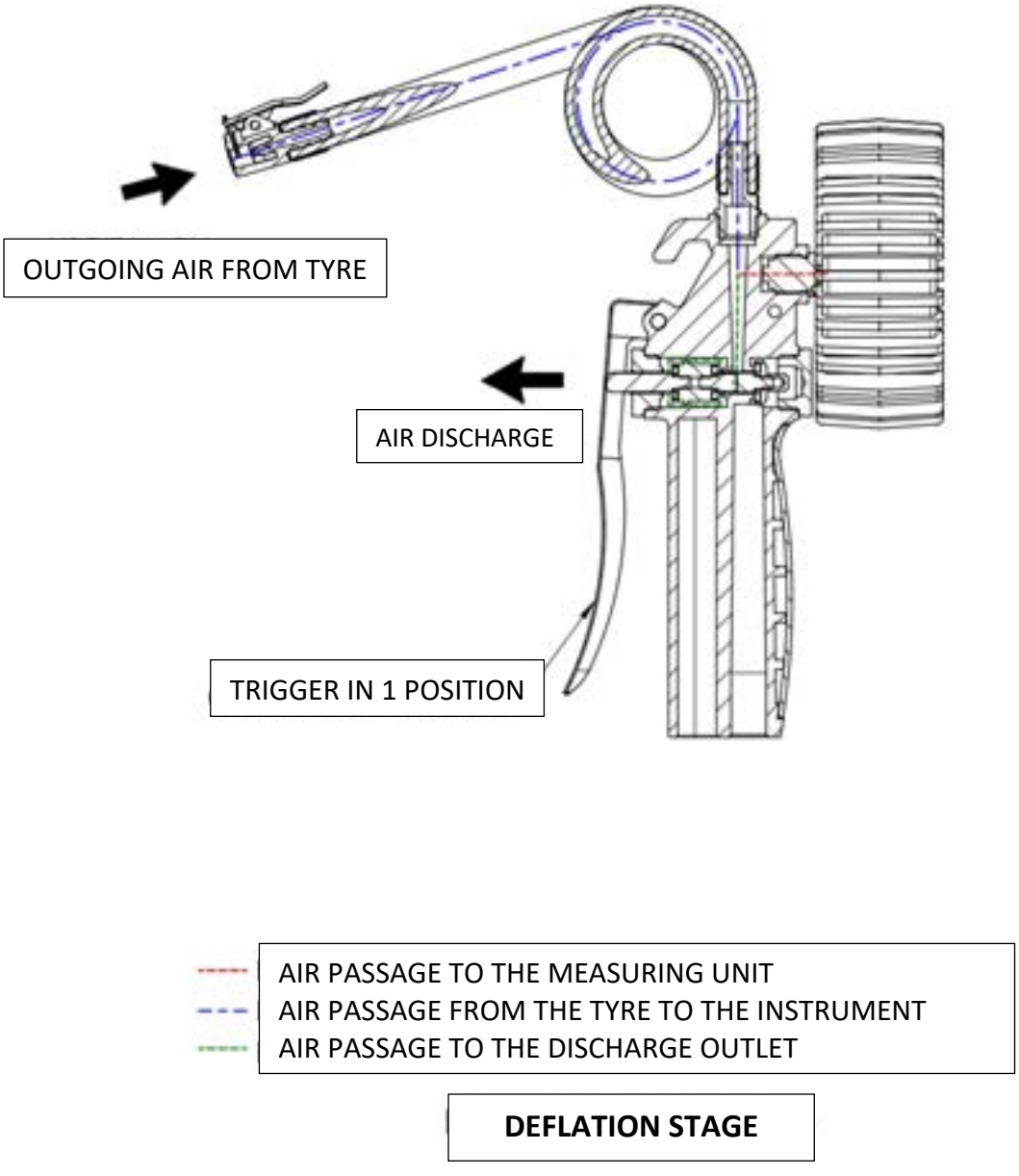


FIG. 8 – TYRE PRESSURE GAUGE “60 G/T” (vers. 63 mm)

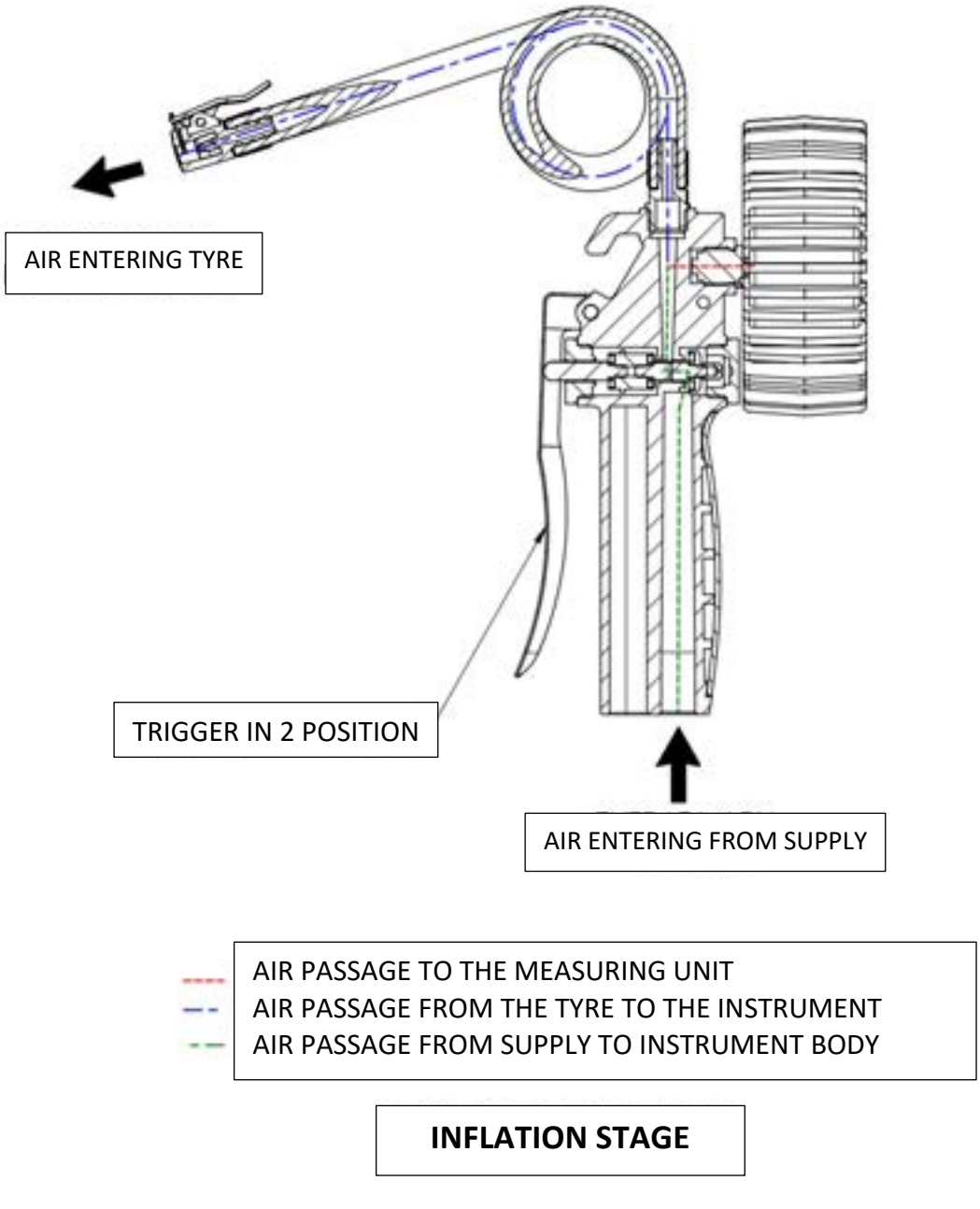


FIG. 9 – TYRE PRESSURE GAUGE “60 G/T” (vers. 63 mm)

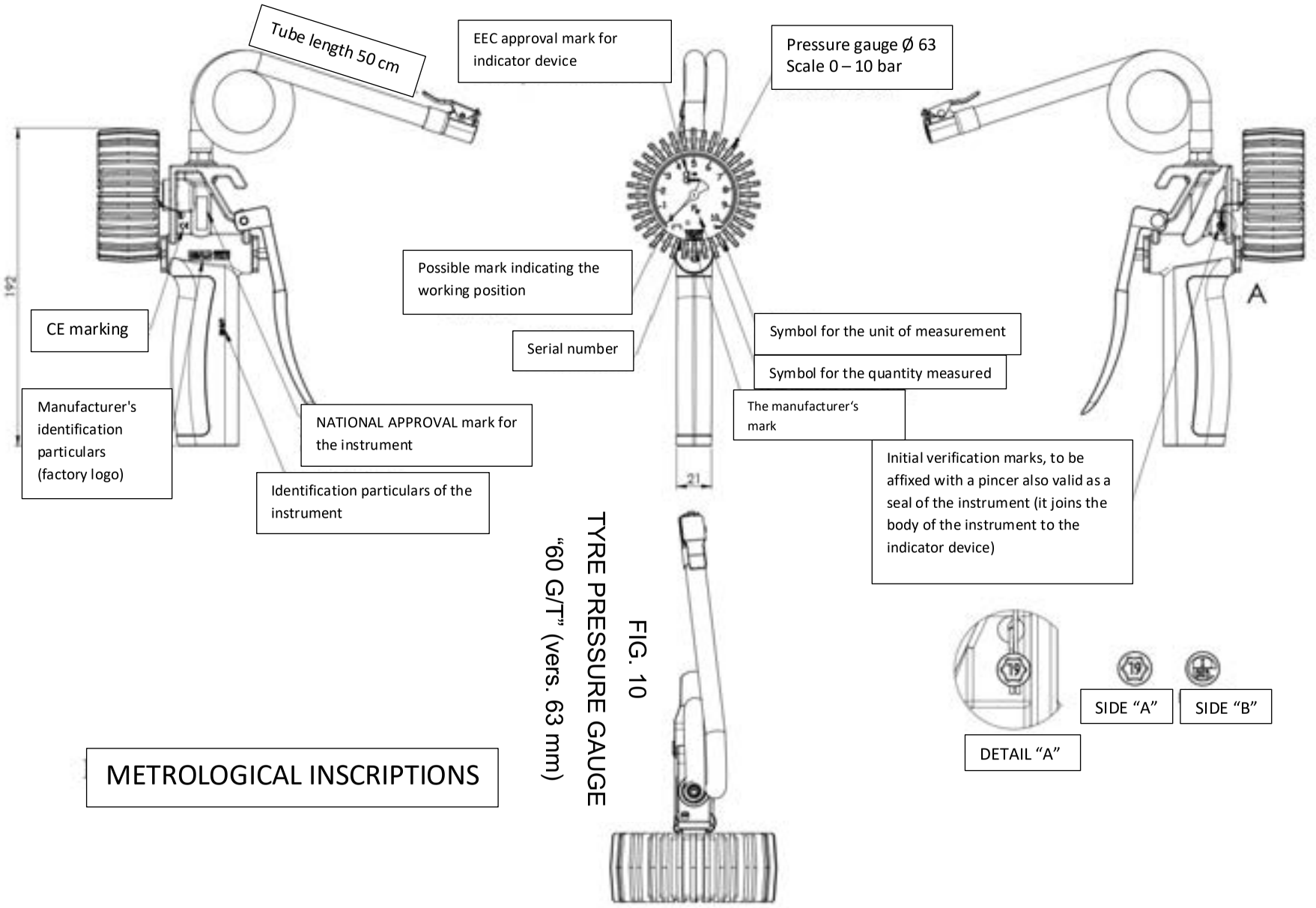


FIG. 10

TYRE PRESSURE GAUGE

"60 G/T" (vers. 63 mm)

METROLOGICAL INSCRIPTIONS

ANNEX III TO Ministerial Decree No. 237327 of 13/10/2020

TYRE PRESSURE GAUGES CALLED "60 G/T" (version with 80 mm diameter)

3. Brief description

The instrument is used to measure the pressure of motor vehicle tyres and complies with UNI EN 12645:2014.

It consists of a resistant plastic body to which the components are mounted as illustrated in the exploded view **(Fig. 11)**.

The measuring device consists of a pressure gauge with a 80 mm diameter, branded WIKA, provided with EEC pattern approval certificate D88 18.08.01 N° 3.13-15235/88.

The pressure gauge is sealed to the body of the instrument, as illustrated in the attached drawings.

4. Technical characteristics

Plastic inflation and deflation handle
Nickel-plated iron trigger
Flexible hose with chuck
Pressure gauge diameter 80 mm
Measuring range 0 ÷ 12 bar
Scale division 0.1 bar
Operating temperature -10 °C ÷ +40 °C

2. Operating stages

The stages are illustrated in the corresponding drawings below, specifically:

- Tyre pressure measuring stage (Fig. 12)

Press the lever on the chuck and insert it on the valve stem of the tyre; by doing so the air chamber of the tyre connects to the inflation gun and the tyre pressure is indicated on the dial of the pressure gauge.

- Tyre pressure deflation stage (Fig. 13)

By pulling the trigger part way only the front spring compresses, the position is perceived clearly at the touch, and by doing so enables the air chamber of the tyre to connect with the discharge circuit on the gun, and the pressure is released to the atmosphere.

- Tyre pressure inflation stage (Fig. 9)

Connect the air/nitrogen supply tube to the inflation gun.

By pulling the trigger all the way the rear spring compresses, and by doing so the air chamber of the tyre connects with the supply circuit, for several seconds, then release it, read the pressure again and repeat the operation until the target pressure is indicated on the dial of the pressure gauge; the supply pressure must be greater than the target tyre pressure.

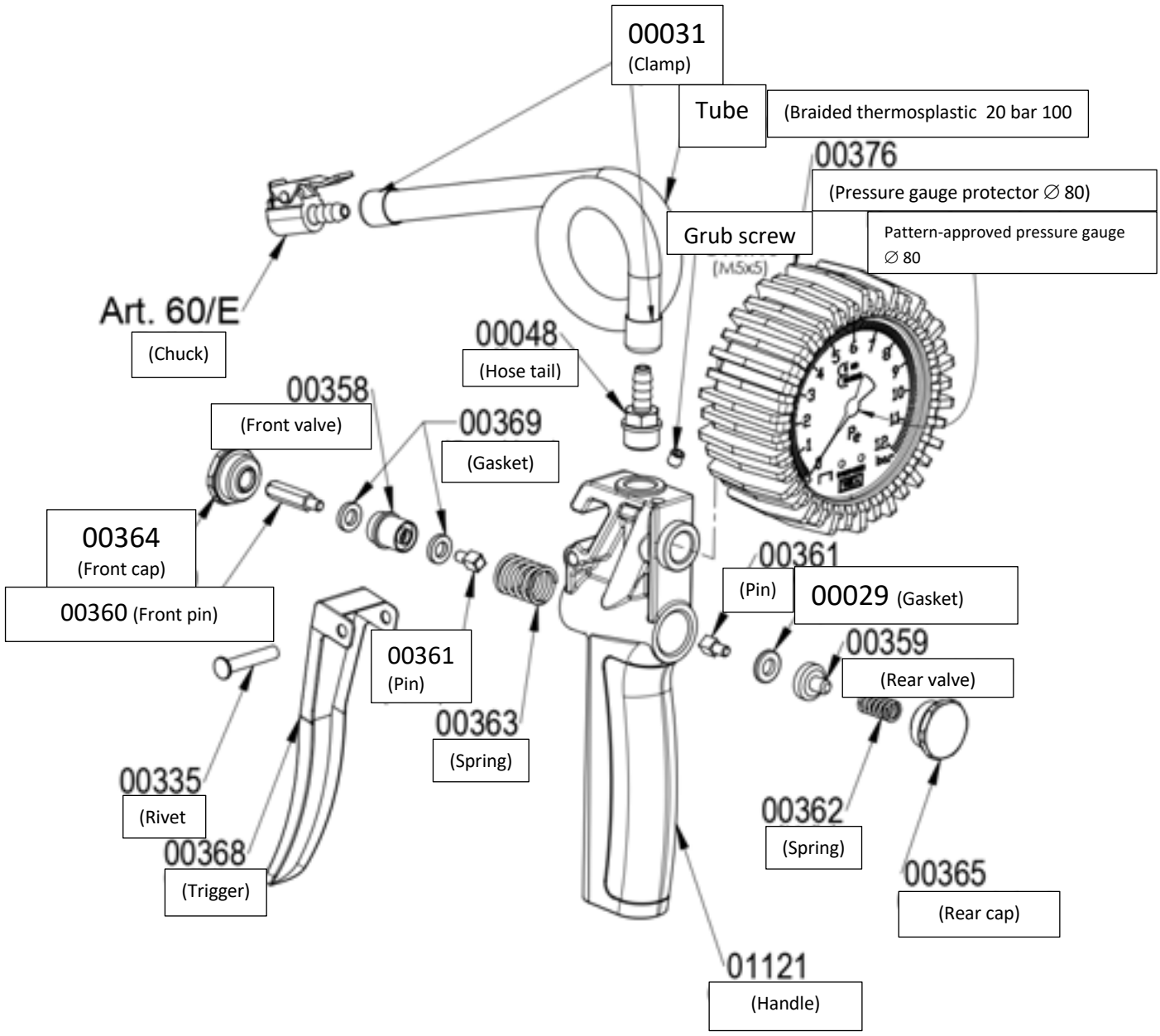


FIG. 11 – EXPLODED VIEW OF TYRE PRESSURE GAUGE “60 G/T” (vers. 80 mm)

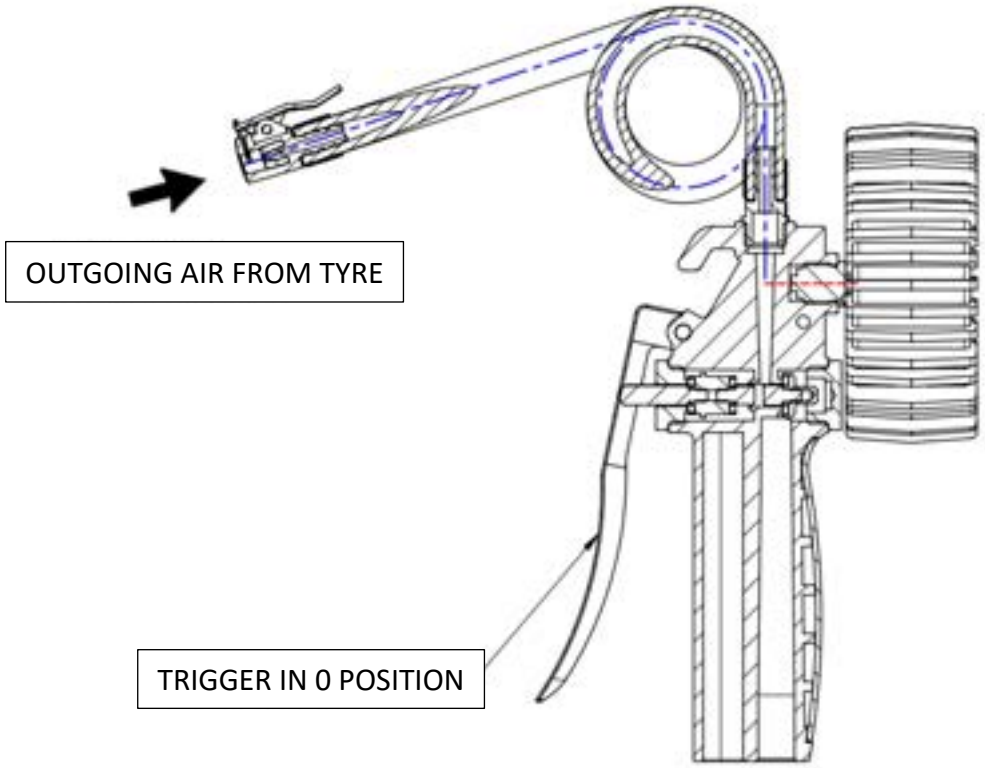


FIG. 12 – TYRE PRESSURE GAUGE “60 G/T” (vers. 80 mm)

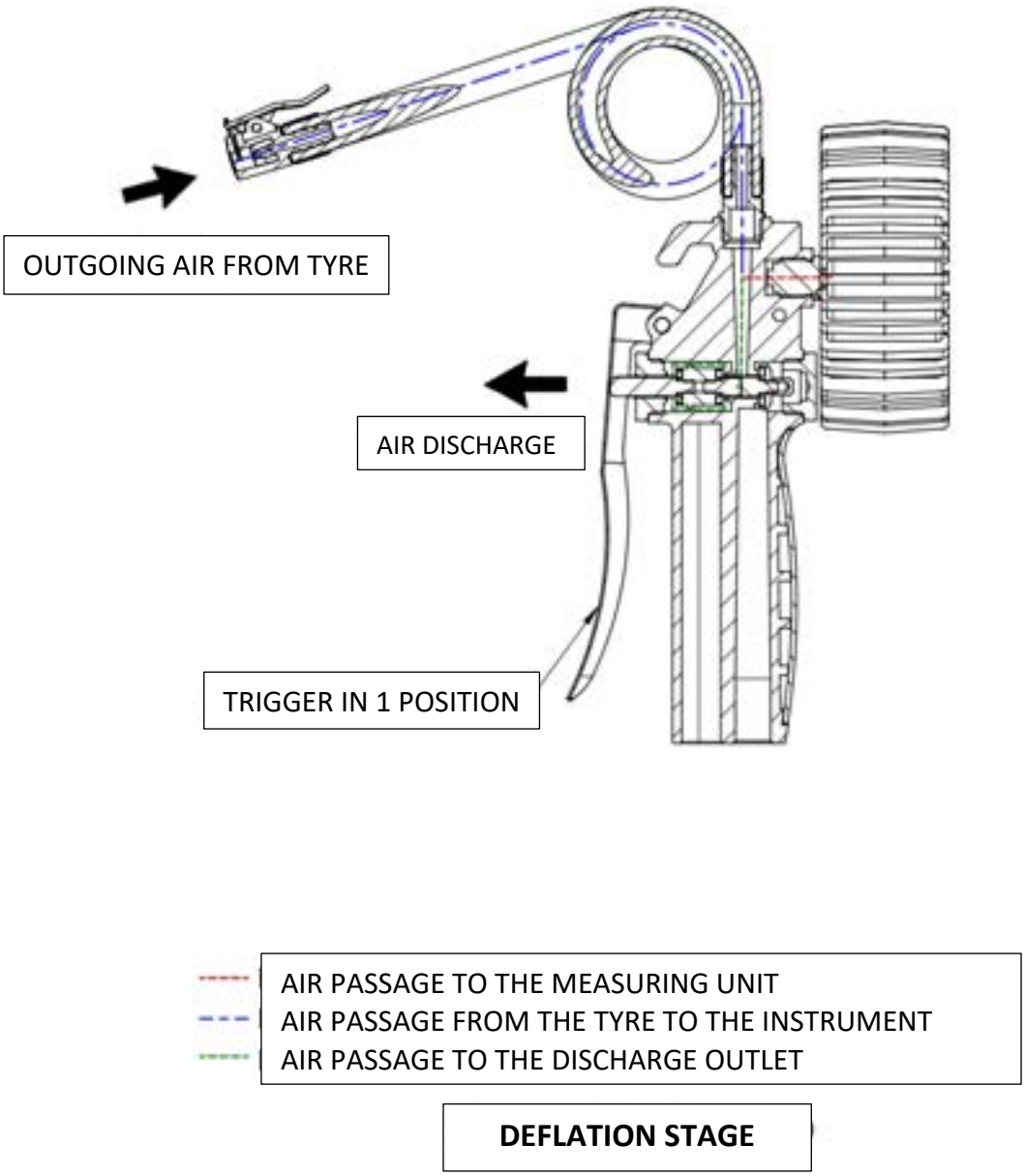


FIG. 13 – TYRE PRESSURE GAUGE “60 G/T” (vers. 80 mm)

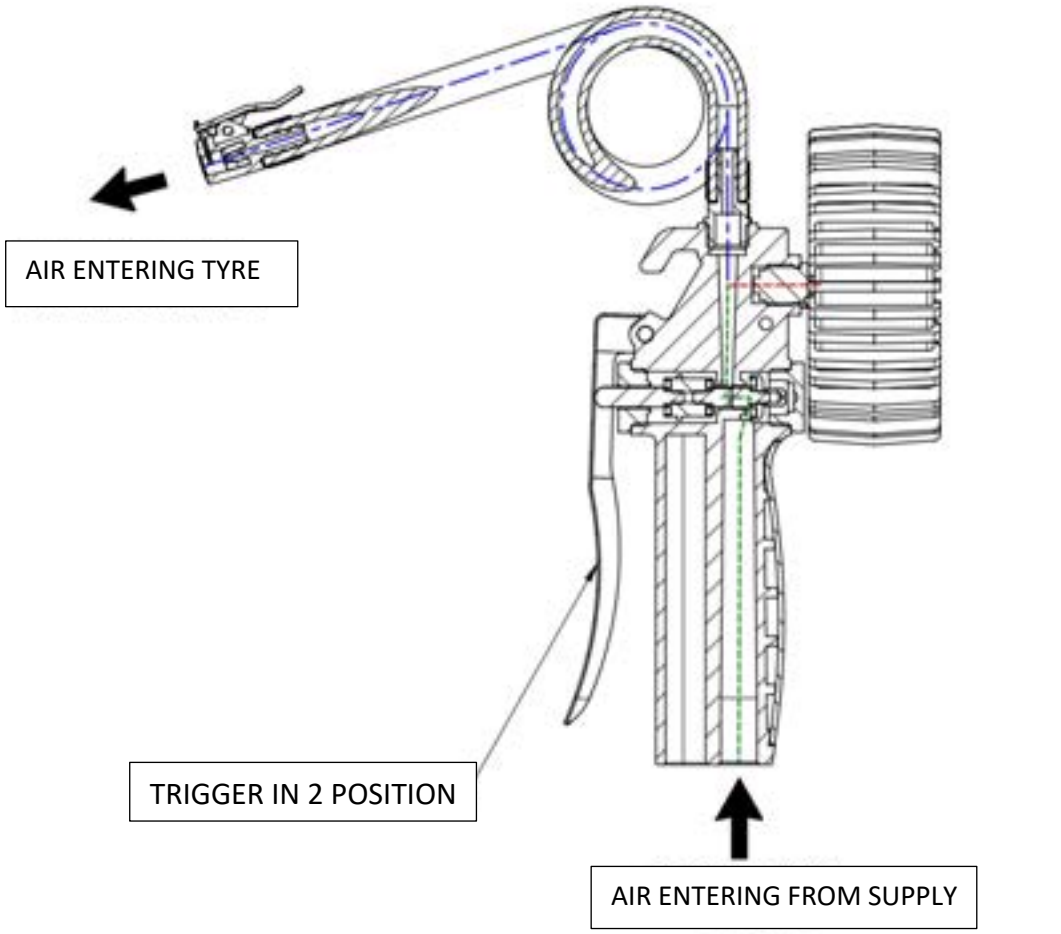
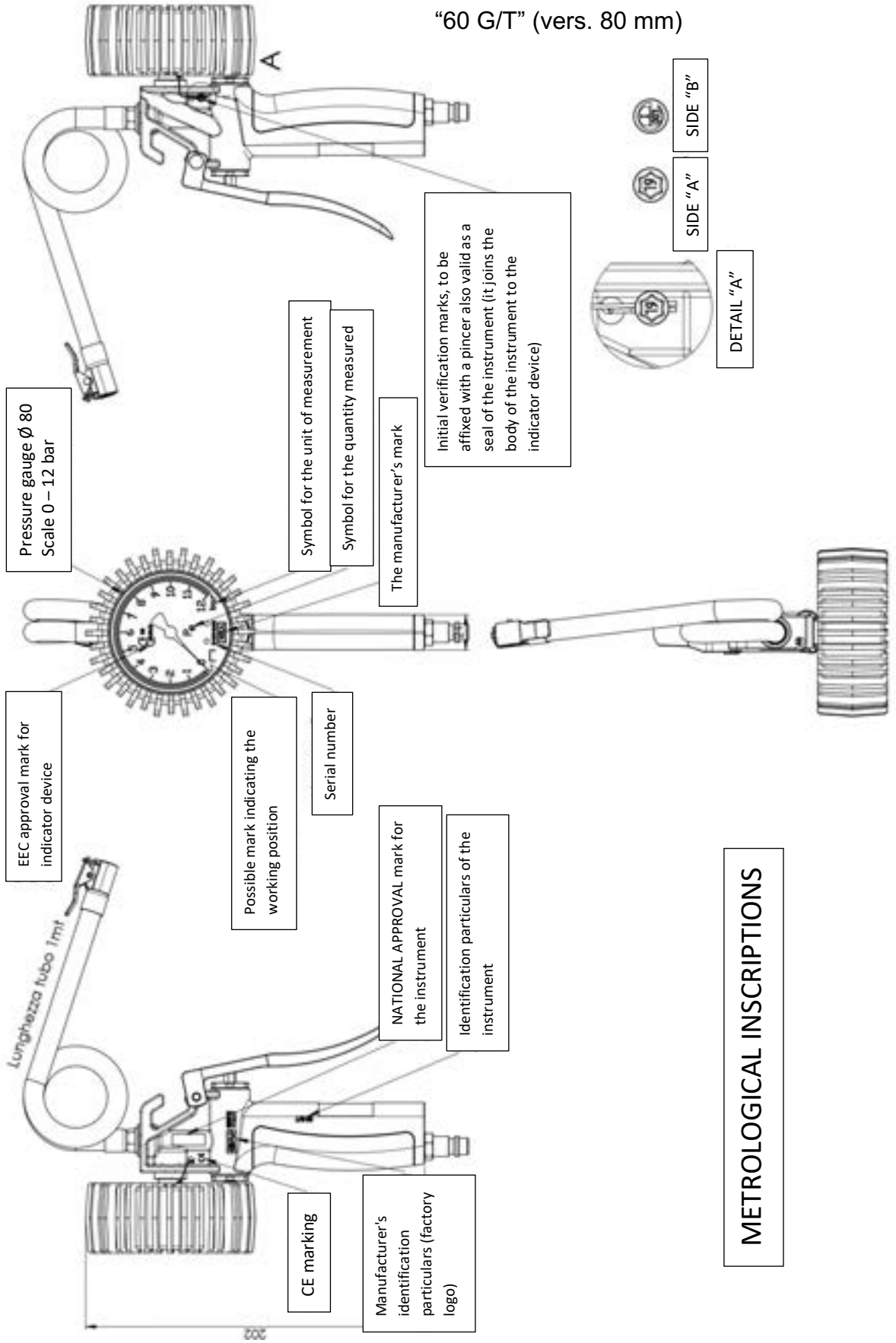


FIG. 14 – TYRE PRESSURE GAUGE “60 G/T” (vers. 80 mm)

FIG. 15

TYRE PRESSURE GAUGE

“60 G/T” (vers. 80 mm)



METROLOGICAL INSCRIPTIONS