



Breathing Apparatus DIABLO ADVANCED type I



The breathing apparatus **DIABLO** model **ADVANCED type 1** resumes in one single model all the best key features of the previous ones, introducing also elements of high innovation.

The models **DIABLO ADVANCED** are certified according to the requirements of the latest revision of the standard EN 137.

It's equipped with full face mask C607, DIN 300 and acoustic signal, complete of cylinder in composite of 6,8 Lt. 300 bar. The breathing apparatus **Diablo Advanced - Type 1** is available, on demand, in the **AITEX** certified version for the potentially explosive atmospheres.

- The **backpack** consists of an anatomic plate made of self extinguishing synthetic resin, light and robust thanks to the fibre glass reinforcement. The carefully designed shape allows to fit all the below listed cylinders which are firmly locked by a quick action buckle.
- The **pressure reducer** is locked as to make easy and fast the connection of the cylinder. It is also designed to download the weight of the cylinder along the strain lines without imposing unnecessary stress on the pneumatic components of the pressure reducer
- The **body harness** is a composite structure made of self extinguishing textile.
- The **buckles** are made both in metal and synthetic resin for an optimal balance between robustness, flame resistance and ease of adjustment.



80 PERSONAL PROTECTIVE EQUIPMENT

- The compensated **C2000 pressure reducer** (patented) uses an active compensation principle exploiting the closing thrust of the main valve which has been tested on over hundred thousand pieces produced. A careful design of the internal parts allowed to minimize the dimensions thus reducing the air paths e related pressure losses resulting in an extremely fast response, a very slim medium pressure cycle and a very high stability also at maximal air demand. C2000 allows a free flow in excess of 1000 litres/minute (we remind that the average air consumption of a user under medium strain is assumed as 40 litres/minute). C2000 pressure reducer is fitted with an high pressure outlet for the pressure gauge and the warning whistle, and with a medium pressure outlet for the lung governed demand valve. Any access to internal components of C2000 pressure reducer as well as to adjustable parts are sealed in order to prevent and show unauthorised interventions. The main cover seal of the medium pressure setting is made in rubber in order to improve extreme temperature and humidity performance and it is locked by a stainless steel fastener anti tampering. Medium pressure hoses are hold in place by “U” shaped pins which allow for easy maintenance and free pivoting of the hoses during use. The pressure reducer is also equipped with an auxiliary warning device placed on the medium pressure safety valve which warns about malfunctions if any.
- The **chest pressure unit**, connected only to a light and flexible high pressure hose, reinforced by aramidic fibre, includes, besides the APR(auxiliary pressure reducer), also the pressure gauge and the warning device. The APR is additionally protected from potential malfunctions by an ASV (auxiliary safety valve).
- The **pressure gauge**, placed on the left side of the user and hooked to the shoulder webbing, is extremely thin, of innovative design and extra light, though effectively protected by a rubber shell.
- The **warning whistle** is of the dual stage type, i.e. it is driven by the high pressure but actuated by medium pressure. In addition it is equipped with the patented autotest feature which allows the automatic testing of the correct setting and operation.
- **E 400 lung governed demand valve** is of the first breath type i.e. it automatically switches from the stand-by mode (without any waist of air). In positive pressure mode it is able to deliver p to a respiratory demand in excess of 10 times the average air consumption needed during normal use and is characterized by a fast response and a smooth action. The energy required for breathing is given by the surface of the breathing cycle, which in the case of DIABLO is extremely small: the less this area is, the less the breathing strain results. The diagrams of the breathing cycles of DIABLO also shows, besides the limited energy required, also the regularity of the shape by varying the high pressure supply value. The optimal compensation of the pressure reducer and the perfect match with the demand valve allows this outstanding performance.
- **Positive pressure full face mask C607** available in EPDM or SILICONE versions, with standard thread or plug in connector..

CERTIFICATES:

- ❖ EC Certified according to Article 10 of 89/686/EEC PPE Directive
- ❖ EC Certified according to 2014/68/UE PED Directive

DIABLO ADVANCED complete of cylinder in composite 6,8 Lt. 300 bar and full face mask C607:

Code 80.0506.010

(On demand available also with the cylinder of 9.0 Lt. / steel cylinders of 6.0 and 7.0 Lt. cylinders)