



# BREATHING APPARATUSES

## DIABLO PI – DIABLO PIZ



**DIABLO** compressed air self-contained breathing apparatus is now available also in a new model designed for emergency situations when fast evacuation is required. It complies with **EN 137** Norm. Diablo Piz is available with ATEX approval.

### MAIN FEATURES

- The **C2000 balanced type pressure reducer** (patented) is characterized by the active compensation of the pressure which, together with an accurate study of the internal geometry, has allowed to obtain a minimum resistance to the air flow with a consequent increase to the amount of air delivered. The results is an **exceptional response time**, an extremely compact medium pressure cycle, smooth breathing and a total performance stability. The **C2000** pressure reducer allows a free air flow of over 1000 l/m (please remember that a user's average air consumption is about 40 l/min. under average working conditions). The **C2000** pressure reducer is equipped with a high pressure connection to the pressure gauge and with a medium pressure connection to the demand valve and audible warning device.
- The audible warning device is mounted on the pressure reducer. It is of the two-stage-type, i.e. activated by high pressure and operated by medium pressure.
- The **PIZ version** is also equipped with a device allowing the automatic testing of the correct functioning (patented).
- The **E400 AP/A** demand valve is an excellent balance between strength, reliability, easy maintenance, small dimensions, weight and high performances. It has been designed

to be able to switch automatically from stand-by status with no flow to the positive pressure mode by means of the first breathe. After use, you only need to push the red button placed on the demand valve to return to the stand-by status. **Fluid-dynamic design** allows a higher flow-rate made available to the user (more than 400 l/min in positive pressure) and very smooth and fast reacting functioning.

- These flow rates are achieved with very low breathing resistance thus resulting in a low respiratory strain.

#### Cascade Configurations:

- **DIABLO PI** and **PIZ** are also available in an additional configuration to allow the connection to an external air supply (configuration IN) by means of a "T" connection hose.
- In **DIABLO PI** the outlet for the connection to the external air supply is on the front of the harness strap, while in **DIABLO PIZ** model it is placed at belt level.
- In both models the MP connection hose is equipped with a **back vent** as to prevent the activation of the audible warning device by the air being discharged from the valve.

## MAIN COMPONENTS

- **Harness** made of synthetic, self-extinguishing, fibre with comfortable buckles.
- **Balanced type pressure reducer C2000**, made of chrome plated brass, including a safety valve, a warning device and a filter stopping particulate impurities.
- Photoluminescent **pressure gauge** covered by a rubber protective cap, connected to the pressure reducer.
- **The E 400 AP/A demand valve** is of the self-switching to positive pressure type. It keeps itself in a stand-by position until the moment of first breathing and then it switches automatically to positive pressure at the first breathing act.
- The **air cylinder is made** of light alloy steel painted yellow and grey according to DIN 3171/5 and it is equipped with a valve according to DIN 477/5.
- Wide field of vision C607 SP/A, SFERA SP/A or IDEA SP/A mask, designed to operate in positive pressure and equipped with a speech diaphragm.

### IN DETAIL:

- **DIABLO PI**
- The cylinder and the mask, when not in use, are stored in a flame retardant, red coated fabric bag which has a light reflecting band for easy identification.
- **DIABLO PIZ**
- The **frame** is light-weight and resistant, made of synthetic resin, designed in order to fit the shape of the body and to distribute uniformly the weight of the apparatus on the wearer's back.

## CYLINDERS

The self-contained breathing apparatus can be supplied, on demand, with the following cylinders (1):

CYLINDER ART. NO.	MATERIAL	CYLINDER CAPACITY (LT)	PRESSURE (BAR)	AIR SUPPLY (LT)	AUTONOMY (MIN.)*
42000685/90	steel	3	200	600	15
42000696/83	steel	3	300	900	22
42000890/91**	composite	3	300	900	22

(1) The above mentioned item numbers are related to model with/without pressure gauge.

\* With an average consumption of 40 lt/min.

\*\*Only for Diabolo PIZ

## CODES

DIABLO PI with carrying bag	C 607 SP/A, EPDM, with quick coupling, DIN 200 connection	Cod. 43427110
DIABLO PI with carrying bag	C 607 SP/A, EPDM, without quick coupling, DIN 200	Cod. 43427111
DIABLO PIZ, with back pack	C 607 SP/A, EPDM, with quick coupling, DIN 300	Cod. 43427122
DIABLO PIZ, with back pack	C 607 SP/A, EPDM, without quick coupling, DIN 300	Cod. 43427123
DIABLO PI with carrying bag	IDEA SP/A, EPDM, without quick coupling, DIN 200	Cod. 43525005

Versions available with full face masks C607 SP/A, SFERA and IDEA, in EPDM or silicone rubber.

The above mentioned item numbers do not include cylinders (which has to be ordered separately).