

RN/BN 1603 FR

Self Contained Breathing Apparatus

Mod. P/N 40093FR00

RN/BN 1603 FR is a type 2 Self Contained Breathing Apparatus specifically designed for fire fighting.

RN/BN 1603 FR adds the highest degree of safety and comfort to the efficiency, versatility and simple use of the **MK2 System**, as well as the astonishing field of vision of the Spasciani **TR 2002 BN** mask. Materials and technologies employed in FR models are of the highest standard and they are all used to make the breathing apparatus components very high resistant to flames and able to resist to Flash Over test as per **EN 137:2006** standard.

TR 2002 BN mask is provided with a special dual use connection enabling to use the mask in positive or negative pressure. A special patented device automatically corrects valve loading to adapt it to the device connected. The mask is provided with a special quick connector to **DIN 58600** and with a standard screw connector according to EN 148-1, it can therefore be used in positive pressure with Spasciani breathing apparatus equipped with type BN demand valve and with filters and others negative pressure devices.

RN/BN 1603 FR is fitted with an automatic demand valve which keeps a positive pressure in the mask thus avoiding any possible inward leakage of contaminated air from the outside. Should it become necessary, the positive pressure mode can be activated by acting on the special button that acts as a supplementary air command, too. The demand valve is connected to the medium pressure hose by means of a quick coupling which allows it to be disconnected very easily for maintenance. The medium pressure hoses of the reducer and of the demand valve are covered by a special Kevlar sleeve to protect them from flames.

RN/BN 1603 FR takes advantage from the unique **MK2 System** warning built into the demand valve. This is activated when the pressure left in the cylinder drops below 55 bar. The signal originates from a sounding vibration caused by every inhalation. In this way the full capacity of cylinder is made available to the user for breathing. The acoustic warning is related to the respiratory frequency of the user and allows the user to distinguish his own signal from those emitted by nearby fellows or noise (**Self Test** Function). The location of the warning device protects it from frost or dirt.

The back plate is made of blow moulded thermoplastic polypropylene, it is extremely robust and anatomically shaped to allow a comfortable distribution of weight and remains steady on the wearer's back even when crouching or crawling. The supporting harness is provided with a special padding to increase comfort and with a soft belt in the hips area which increases portability of the equipment. All harnesses and padding are in aramidic and para-aramidic material and self-extinguishing foams. Special handles integral with the backplate are provided for carrying the set along.

The pressure reducer keeps the outlet pressure constant throughout the emptying of the cylinder and is connected to an easy to read phosphorescent gauge. The steel cylinder has a capacity of 6 liters with a pressure of 300 bar and is fitted with a valve according to EN 144.



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TECHNICAL DATA

Pressure Reducer: piston with compensator

Automatic Demand Valve: with integral alarm device and supplementary supply button

Setting of the Alarm: 55 ± 5 bar

Volume/pressure of Cylinder: 6 l/ 300 bar

Air reserve: 1660 N liters

Duration: 55 min at an average consumption of 30 l/min for a single user

CLASSIFICATION

Certified **Type 2** to **EN137:2006** and meeting with directives **98/686/EEC (PPE)**, **97/23/EC (PED)** and **96/98/CE (MED)**.

MARKING



MATERIALS

Mask:	TR 2002 BN CL3+
Outer face blank:	EPDM
Panoramic Visor:	Scratch and solvent resistant polycarbonate
Inner Nose Cup:	TPE
Five arm head harness:	Neoprene
Carrying strap:	Para aramidic webbing
Backplate:	Thermoplastic polypropylene
Harness with padding and soft belt:	Para-aramidic and aramidic webbing, self-extinguishing foam
Medium pressure hose (demand valve and reducer):	Rubber protected by para aramidic sleeve
Pressure reducer:	Brass alloy nickel plated
Automatic Demand Valve:	Fiber glass reinforced nylon housing
Cylinder:	Steel

STORAGE

Store at temperatures between -20 and +50 °C and with RH <80%

WEIGHT

15 Kg circa, apparecchio completo di maschera e bombola carica.

DIMENSIONS/PACKAGING

310x660x220 mm, measured with set laying down on a flat surface.

The set is packed w/o cylinder in a carton box dimensions 710x210x460 mm

Cylinder is packed into a carton box dimensions 710x150x160 mm