

Datasheet RN FR

Self Contained Breathing Apparatus – Type 2

RN FR is a Type 2 Self Contained Breathing Apparatus specifically designed for fire fighting.

RN FR adds the highest degree of safety and comfort to the efficiency, versatility and simple use. 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.

RN 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 FR takes advantage from the unique RN 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 vacuum formed 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 cylinder has a pressure of 300 bar and is fitted with a valve according to EN 144.

FULL-FACE MASK

RN FR T2 can be equipped with two different type of masks:

TR 2002 CL3+, modern design (EPDM)

TR 82 CL3+, classic design (EPDM)

TR 82 E CL3+, with helmet connection (in EPDM)

All these models are available with threaded or bayonet connector.



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DEMAND VALVE

RN FR can be supplied with demand valve type A or BN.

Model	Characteristic
RN A	M45x3 threaded connector
RN BN	DIN 58600 bayonet connector

CYLINDERS

RN FR can be equipped with steel or composite cylinders:

Volume	Pressure	Materials
l	bar	
6	300	Steel
6,8	300	Composite
9	300	Composite

RN breathing apparatuses are approved for use only with cylinders authorized by SPASCIANI, for further information on the cylinder models available, contact customer service.

Article-Number: 201294 & 139029

ACCESSORIES

- Additional alarm:** The accessory “additional alarm”, available on request, gives the possibility to add a continuous whistle to the alarm signal provided already in the demand valve.
- Four-ways valve** The Automatic 4-way valve allows you to:
- feed a second operator who will be equipped with an individual warning device signal on their mask;
 - connect the self-contained breathing apparatus to an alternative source of air to prolong its autonomy and/or to ensure a safe escape whenever the main feeding source has suffered an accidental interruption.
- Excess flow valve:** The valve of the cylinder can be equipped, upon request, with an excess flow valve.
- Certification:** Certified Type 2 to EN 137:2006 and ISO 23269-2:2011 and meeting with the provisions of Regulation (EU) 2016/425 (PPE), 2014/68/UE (PED), 2014/90/UE (MED) and 2014/34/UE (ATEX)*. *on request

TECHNICAL DATA

- Pressure Reducer:** piston with compensator
- Automatic Demand Valve:** with integral alarm device and supplementary supply button

Revision 02.2025 – Errors and omissions excepted. All data are non-binding guide values.

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Cylinder Capacity: 300 bar

Setting of the Alarm: 55 ± 5 bar

Marking:  0426

Producer: Spasciani S.p.A

Materials:

Backplate:	Thermoplastic V0 polypropylene
Harness with padding:	Fire resistant aramid fiber fabric and expanded polyurethane
Pressure reducer:	Brass alloy chrome plated
Demand valve:	Glass fiber reinforced nylon

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

Weight: 15 Kg approx., set complete with mask and fully charged steel cylinder
10 Kg approx., set complete with mask and fully charged composite cylinder.

Dimensions/
Packing: 310 x 640 x 210 mm measured with set laying down on a flat surface.
The set is packed w/o cylinder in a carton box dimensions: 710 x 210 x 460 mm.
Cylinder is packed into a carton box dimensions: 710 x 150 x 160 mm.

CODES FOR ORDER CYLINDER

P/N	Description
924630000	6 l 300 bar Steel
92426000C	6.8 l 300 bar Composite T4
92448000C	9 l 300 bar Composite T4

BACKPLATE + PRESSURE REDUCER

P/N	Description
15875FR00	TELAIO RN MK2 FR+ RID. RN EN 144 EC

FULL FACE MASK FOR TYPE 2 SCBA

P/N	Description
11230FR00	TR 82 A CL3+
11231FR00	TR 82 B CL3+
11300FR00	TR 2002 A CL3+
11301FR00	TR 2002 BN CL3+
112100000	TR 82 A E CL3+
112110000	TR 82 B E CL3+

DEMAND VALVE

P/N	Description
1588500CJ	MK2 A
1579100CJ	MK2 BN

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