

Cartridges CO² / 140°C

Technical File
T03005 B

CARDE140020 to CARDE140075



Description - General information

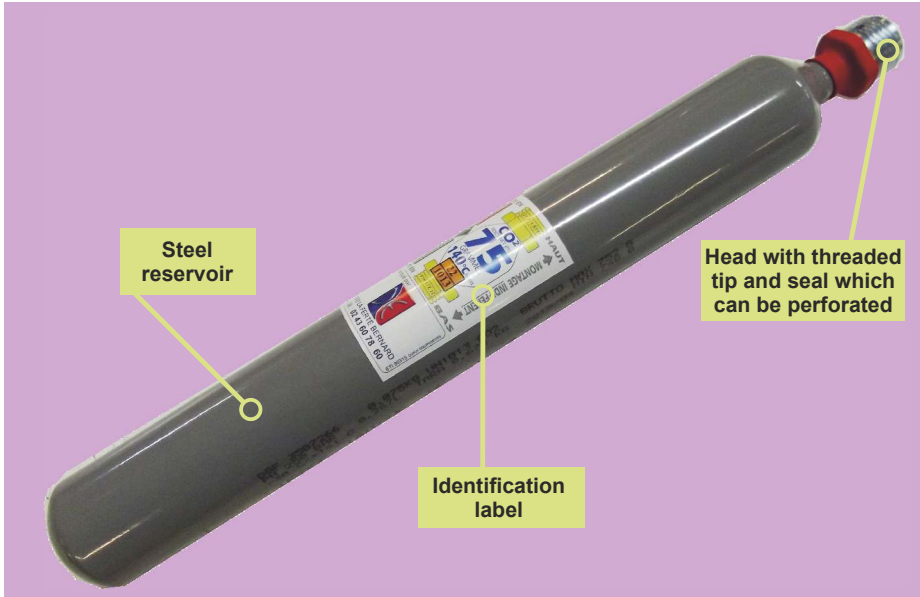
Single use Pneumatic Safety Circuits (PSC).

After impact, the cartridge releases its entire contents ensuring the activation of one or more Smoke and Heat Exhaust Ventilator (SHEV) systems.

The cartridges of compressed carbon dioxide have been designated as "CO² bottles for single use" in the NF EN 12101-10 norm. They meet norm NF S 61-939 and norm NF EN 12205.

The carbon dioxide is compressed at 60 bar, at about 20°C, equilibrated between liquid phase and gas phase.

They are used primarily in automatic control devices which need an intrinsic energy, for example : Thermofuses.



Reference	Mass CO ₂	Length L + or - 5 mm	Ø
CARDE1410020	20 g.	150	35
CARDE1410075	75 g.	380	40

Technical Characteristics

Material : Steel resistant at 528 bar.
 Protection : Paint: RAL7037.
 Seal : Breaking under a pressure of between 350 and 450 bar.
 Threading : 21.7 x 1.814.
 Content : CO₂.
 Temperature during use : + 140°C maximum
 Identification : Engraving and labelling.
 Charge rate : 0.25
 Grammage : 20, 75 g.
 Precautions : Stock and install away from bad weather conditions.



Example of laser marking

VOLUMES RELEASED BY THE CO ² CARTRIDGES in litres		
PRESSURE in bar	20 g	75 g
	WITHOUT PLUNGER TUBE	
25	0.23	0.87
22	0.28	1.04
20	0.32	1.19
18	0.37	1.37
15	0.46	1.67
12	0.57	2.12
10	0.69	2.57
8	0.87	3.25

Marking information	
- Manufacture date	: Laser marking Ex : 2015/06
- Manufacturing lot	: Laser marking Ex : 3744954



When they are mounted on the thermofuses, cartridges must be screwed in place manually.

All the values on the table above are approximate values :

The results, based on Van der Walls equation, are obtained from our spreadsheet certified by APRAGAZ and crosschecked by many internal measures. The values on the table above are for a room temperature of 20°C.

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