

Cartridges CO² / 50°C

Technical File
T02506E

CARDE500015 to CARDE500750

Description - General information

Single use Pneumatic Safety Circuits (PSC).

On 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.

They are subjected to test report n° SG030094 of the CNPP laboratory, according to norm NF S 61-939 annex A.



Two types of cartridge

- **WITHOUT** plunger tube
up to **100 g.**
Mounted head upwards or head downwards.
- **WITH** plunger tube
over 100g
Mounted head upwards only

Reference	Mass CO ₂	Length L + or - 5 mm	Ø
CARDE500015	15 g.	109	22
CARDE500025	25 g.	115	30
CARDE500060	60 g.	146	35
CARDE500100	100 g.	185	40
CARDE500150	150 g.	267	40
CARDE500200	200 g.	328	40
CARDE500300	300 g.	332	51
CARDE500500	500 g.	376	60
CARDE500750	750 g.	515	60

Technical Characteristics

Material : Steel resistant at 528 bar.
 Protection : Paint: RAL7037.
 Seal : Breaking under a pressure of between 350 and 450 bar.
 Threading : 15 x 125.
 Content : CO₂.
 Temperature during use : + 50°C maximum
 Identification : Engraving and labelling.
 Charge rate : 0.75
 Grammage : 15, 25, 60, 100, 150, 200, 300, 500 and 750 g.
 Precautions : Stock and install away from bad weather conditions.

Marking information

- Manufacture date : Metal engraving
Ex : 2015/06
- Manufacturing lot : Laser marking
Ex : 3744954



VOLUMES RELEASED BY THE CO² CARTRIDGES in litres

PRESSURE in bar	15 g	25 g	60 g	100 g	150 g	200 g	300 g	500 g	750 g
	WITHOUT PLUNGER TUBE					WITH PLUNGER TUBE			
25	0.17	0.29	0.70	1.16	2.28	3.04	4.55	7.59	11.38
22	0.21	0.35	0.83	1.38	2.72	3.63	5.45	9.07	13.60
20	0.24	0.40	0.95	1.59	3.12	4.15	6.24	10.39	14.55
18	0.28	0.46	1.10	1.83	3.59	4.79	7.18	11.96	17.95
15	0.33	0.56	1.34	2.23	4.38	5.84	8.76	14.59	21.89
12	0.43	0.71	1.70	2.83	5.56	7.41	11.12	18.53	27.79
10	0.52	0.86	2.06	3.43	6.74	8.99	13.48	22.47	33.70
8	0.65	1.10	2.60	4.33	8.51	11.34	17.01	28.35	42.53

When they are mounted in the boxes, 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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