



**BATES  
CARGO  
PAK®**

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**HEAVY**

### *Use*

Heavy is used to secure cargo, which is to be transported by sea, container, rail or road and is at risk of being exposed to loads up to 30 tons.

The empty airbag should be placed in the gaps between the cargo and inflated using compressed air. The airbag assumes the precise shape of the gap and supports and stabilises the cargo effectively during transport. The airbag can be used several times.

### *Materials*

Heavy consists of three layers of special paper, ensuring maximum strength and low weight of the airbag. On the inside Heavy consists of three layers PE quality film, which is coextruded, ensuring an ultimate airtight seal.

### *Valve*

Heavy is equipped with a patented valve, which allows very quick inflation and deflation. The valve can be opened and closed numerous times, so the airbag can be reused.



### *Airbags from Bates Cargo-Pak...*

- Available in several different types and sizes, depending on the products and mode of transportation.
- Can withstand up to 90% relative humidity (RH) at 60°C.
- Have a very high wet strength due to the complete unique choice of materials and composition.
- Entirely made from environmentally friendly materials.
  - paper, film and valve components are 100% recyclable.
  - meet the European regulations regarding the content of heavy metals.
- Have a high friction value and therefore they stay in place during transit.
- Very user friendly due to their light weight.
- Are supplied in practical standardised cartons which fit standard pallets and shelf systems.
- The fastest filling- and emptying times in the market.
- Can be used in all climatic conditions.



AR43

**ISO 9001  
CERTIFIED**



*Bates Cargo-Pak – our airbags  
will stabilize virtually  
any type of cargo.*

*You can rely on Bates Cargo-Pak  
under all conditions.*

# Technical specifications



## Maximum load

Size in cm		60 x 110	85 x 120	85 x 220	100 x 140	100 x 185	100 x 220	120 x 240*
Load in tons in a gap of:	10 cm	8.5	13.5	26.0	19.0	26.0	30.5	42.0
	20 cm	4.0	7.5	15.9	12.0	16.5	20.5	29.5
	45 cm				2.0	3.5	4.5	8.0
Max. gap in cm:		25	37	37	45	45	45	55

\*Grand – 4 plies

## Strength

The maximum load depends on the size of the airbag and the gap between the cargo. The table above shows the load the various sizes of airbags can withstand in a gap respectively of 10, 20 and 45 cm. For example, if there is a gap of 10 cm and an airbag of the size 100x220 cm is used, the airbag can withstand a load of 30 tons.

## Inflation- and deflation times

60 x 110	Standard:	11 sec
	Quick:	8 sec
	Deflation time	11 sec
100 x 220	Standard:	46 sec
	Quick:	35 sec
	Deflation time:	43 sec

## Inflation

We recommend that the Bates Standard Inflator or Bates Quick Inflator is used to inflate the airbags. The airbag must not come into contact with sharp or pointed objects and should be kept min. 5 cm clear of the floor to avoid contact with water or other liquids. In the table above filling time is based on a 3/4" hose and a pressure of 4 bar (56 psi).

## Working pressure

The maximum recommended working pressure is 0,3 bar (4,2 psi). Compared with the high bursting pressure this gives a security margin of factor 3-8 depending on the gap.

If changes in temperature, you should take into consideration the following:

- If the air in the airbag becomes significantly colder after inflation, the pressure in the airbag drops. It is possible to compensate for this during inflation by increasing the working pressure slightly.
- If the air in the airbag becomes significantly warmer after inflation, the pressure in the airbag increases. It is possible to compensate for this during inflation by reducing the working pressure slightly.

During inflation consideration should of course be given to whether the cargo and packaging can withstand the selected working pressure.

## Deflation

The airbag is deflated by pushing down the push-button, which opens the valve, allowing the airbag to be pulled out and rolled up (this is included in the indicated deflation times). When reusing the airbags it is very important to close the valve after deflating, so the valve is protected against damages and dirt.

## Weight and dimensions

Size in cm	60 x 110	85 x 120	85 x 220	100 x 140	100 x 185	100 x 220	120 x 240*
Item number	711020	711050	711055	711060	711070	711090	711295
Pcs. per carton	15	20	15	15	10	10	10
Pcs. per pallet	180	160	120	120	80	80	80
Gross weight/cart.	13.8	22.6	29.6	22.8	20.1	23.4	37.1
Gross weight/pall.	177	193	249	195	173	200	317

NB: Other sizes are available on request

\*Grand – 4 plies

Distributor



- the Original

Bates Cargo-Pak ApS  
Stigsborgvej 36  
DK-9400 Nørresundby  
Tel. +45 96 32 88 00  
Fax +45 96 32 88 20  
info@bates-cargopak.com  
www.bates-cargopak.com