



Bates Flex

Paper dunnage bag

Prevent cargo damage

With 40 years experience we know how to protect your goods in trucks, containers, ships and rail wagons.

Reliable performance

Made from two layers of quality paper from FSC certified suppliers & an inner PE film bladder, ensuring an ultimate airtight seal. Made in Denmark.

Time & cost saving

Quick and safe installation.
Clean and cost effective.
Fast loading for shipper.
Fast unloading for receiver.

Fast & simple inflation

Operator friendly inflation using compressed air. Unique Flex valve which seals automatically after inflation.

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Flex is used to secure cargo which is to be transported by container or road and it is at risk of being exposed to loads up to 12 tons. Flex is equipped with the patented Flex valve which allows for very quick inflation. The valve can be turned 360°, which makes it possible to inflate the airbag from all angles. The valve closes automatically after inflation. Flex is available in seven sizes and comes in handy box quantities and are easy to store.

Benefits and features

- Maximizes load security**
 Filling the void by inflating the airbag, secures the goods during transport all the way from the sender to the receiver. Clean, simple and easy to use.
- Reduces loading & unloading time**
 Placing the airbags is a very fast and time saving way of securing your goods before departure. When unloading the goods the airbags are simply deflated by puncturing them to release the air.
- Environmentally friendly materials**
 Entirely made from environmentally friendly materials. High wet strength due to the choice of materials and composition. Can withstand up to 90% relative humidity (RH) at 60°C.



Flex airbag inflated in position



Valve easily accessible even once inflated

Inflation Time

60x110	11 sec
100x220	46 sec

Inflation

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 transit. The airbag is for one-way use and especially suitable for narrow gaps. We recommend that the Bates Flex Inflator is used to inflate the airbags. To inflate, the nozzle should be pushed all the way into the valve. The airbag must not come into contact with sharp or pointed objects and should be kept min. 5cm 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).

Deflation

The airbag is deflated by puncturing it to release the air and it can then be removed from the load.



Flex valve



Inflation with Flex Inflator

Packaging Specifications

Size in cm	60x110	85x120	85x185	100x120	100x150	100x185	100x220
Item Number	711530	711535	711550	711555	711560	711570	711590
Pcs per Carton	50	35	30	30	30	25	20
Pcs per Pallet	400	280	240	240	240	200	160
Gross Weight per Carton	21.4	22.4	28.6	22.4	27.4	27.9	26.5
Gross Weight per Pallet	184	192	241	192	232	236	225

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Working Pressure & Strength

Technical Specifications

Size in cm		60x110	85x120	85x185	100x120	100x150	100x185	100x220
Load in Tons in a Gap of:	10cm	3.0	5.3	8.7	6.4	8.3	10.4	12.6
	20cm	1.3	2.8	6.2	3.6	4.9	6.4	7.8
	45cm				0.4	0.6	0.9	1.2
Max Gap in cm		25	37	37	45	45	45	45

*All specifications are provided in metric tons

The maximum load depends on the size of the airbag and the gap between the cargo. The table above shows what load the various sizes of airbags can withstand in a gap from 10 to 45cm. For example, if there is a gap of 10cm and an airbag of the size 100 x 220cm is used, the airbag can withstand a load of 12.6 metric tons.

Working pressure

The maximum recommended working pressure is 0,25 bar (3.6 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.
- Consideration should also be given to the working pressure at different altitudes, from high to low and low to high.

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

Certified Manufacturing Plant

ISO 9001 Quality Management System



Produced using sustainable energy



Distributor:

BATES CARGO-PAK®
A SIGNODE BRAND

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