

THE SECONDARY LEAK PROOF SYSTEMS

– forming of resealable bags on VFFS machines of VELTEKO

The VELTEKO company is constantly following the trends in packing of products in foil bags. We often meet the requirement of our clients concerning the possibility to be able to reseal the bag. A solution of this problem lies e.g. in providing the bag with two sealing systems. The primary system consists of a common weld that insures not only leak-proofness but also safety - it is not possible to get in the bag without mechanically damaging the weld. The secondary system consists of various additional components (see below) applied on the bag and allowing resealing of the bag after damage or removal of the common seam. A special case represents the use of a secondary leak proof system ensuring both safety of the bag (it cannot be opened for the first time without any visible damage) and the possibility of re-closing. Such a system is for example a screw cap.

At present, we can offer to our customers different combinations of foil bags, such as pillow bag A, stand-up bag – B, C, stand-up bag with welded vertical edges – F, doypack – J, block bag – E, bag with flap – G, etc., (more on www.velteko.eu) and various systems for repeated resealing of a bag after its opening.

The most often used secondary sealing systems are:

- sealing with a zipper (suitable for bags A, B, C, F, J)
- sealing with double-side adhesive tape (suitable for bags G)
- sealing with a label (suitable for bags A, B, C, F, E)
- sealing with a screw cap (suitable for bags J – doypack)

Sealing with a zipper

VELTEKO has developed a system of zipper application in the foil bag in cooperation with the British company Supreme Plastics (now part of the Zip-Pak Company). Further development of the system led to creation of applications for bags of types A, B, C, F using the cross web system and the in-line system for bags "J" - doypack. The output of the machine with a zipper applicator is up to 55 bags per minute depending on the type of bag, packing material and packed product. Use of the zipper reseal is suitable for packing of both piece and loose and powder products (pet food, instant drinks, frozen vegetables).

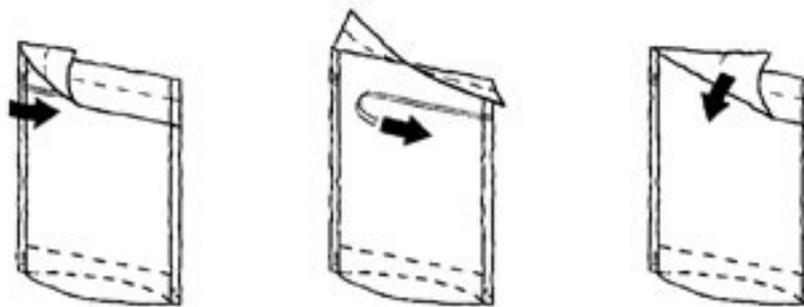


Sealing with double-side adhesive tape

VELTEKO has developed the system of a double-side adhesive tape in cooperation with the Amcor Flexibles Europe Company. Stand-up bags with resealable flap (internal designation type "G") are produced on a vertical packaging machine with the output of 60 bags per minute.

The "G" type bag form is patented by the Amcor Flexibles Europe Company under the name of "Easy Pack" and its use is possible only provided that the foil of Amcor Flexibles Europe is used.

Packing in foil bags with a resealable flap (type "G") is suitable for non-powdery products (grated cheese, dry fruits, pet food, coffee beans, etc.).



Sealing with a label

The system of resealing of bags using a special label is used especially for stand-up bags with a flat bottom "C", "F" and the so-called block bags "E". In some cases, the label may have the function of a seal. To use this system, the VELTEKO vertical packing machines are equipped with a label applicator added to the packing machine with the possibility to apply the label on any place on the bag. The label is either one-layer or two-layer with different level of adhesion depending on the position on the bag. Packing in label resealable foil bags is suitable for fine piece and not much powdery products (pulses, rice, pasta, dry fruits, pet food, coffee beans, etc.).

Sealing with a screw cap

Packing in bags "J" – doypack was up till now performed primarily by horizontal packaging machines. According to available information, VELTEKO is one of three European companies that managed to develop and patent their own system of forming of bags "J" - doypack on a vertical form-fill-seal machine, including application of screw caps. The system of production and filling of foil bags "J" – doypack with a screw cap on the vertical packaging machine is unique in the world and combines all advantages of packing on vertical packaging machines (low initial costs, low space requirements, variability of bag types) with possibility to produce bags "J" – doypack with screw caps. This type of packaging is suitable especially for packing of liquids and paste-like products (drinks, mayonnaise, ketchup, dressings).

