METHOD FOR SEALING OF HOLLOW HOSES OF FLEXIBLE MATERIAL

~~SEALING MEANS, KIT AND METHOD FOR SEALING OF HOLLOW HOSES OF FLEXIBLE MATERIAL~~

Technical Field

The present invention relates to a sealing means made of a plastically deformable material for mechanical sealing of hollow hoses of elastic material by means of an appliance having at least two jaws, at least one of which is movable towards and away from the other and which, when moving towards each other, crimp the sealing means against the hose for contamination-tight sealing of the same. The present invention also relates to a kit comprising a sealing means and an appliance for sealing of hollow hoses and to a method for mechanical sealing of hollow hoses.

Background of the Invention

In, for example, devices for introduction and/or withdrawal of a medium in a container there is a need for contamination-free sealing and cutting of the hoses that extend between the conveying means and the collecting vessels which are connected to the process container. The reason for this is that it is desirable that the collecting vessels, after being filled with a medium from the process container, can be moved without any risk of contamination to a laboratory or the like for sampling or analysis of the medium. In the above application, the requirements for good hygienic conditions and contamination-free environment/surroundings are exacting.

Solutions for sealing a hose are previously known in the art, for instance in the form of a folded clip, which is applied to a folded end of the hose. The clip is then crimped against the hose for sealing of the same, whereupon the hose is cut downstream of the clip by means of a pair of scissors or some other cutting tool. However, a solution of this kind does not satisfy the requirements for good hygienic conditions and contamination-free sealing referred to in the application described above. For example the clips do not always provide the desired sealing effect and there is in most cases at least a small portion of the hose left downstream of the clip. There might even be a small portion of the hose left downstream of the clip on both of the cut hose ends. This hose portion or hose portions contain a small quantity of the medium, which may leak out to the surrounding area with an obvious risk of contamination.