CLAIMS

1. Valve connector for medical infusion lines, comprising:

- an axially elongated tubular body (C) consisting of a base (1) and a lid (2) coaxially joined together and defining an inlet (12) and an outlet (6), the base being coaxially formed with a hollow internal pin (7) communicating with the outlet (6) and having a closed terminal (17) projecting into the lid and having a lateral passage (20) adapted to be placed in communication with the inlet (12),

- an elastic element (3) inserted coaxially along said lid (2) and including:

- an elastic head (22) having a radial pre-slit (26) and normally arranged in a closing condition within said inlet (12) in which said pre-slit is closed, said elastic head (22) being axially displaceable towards said closed terminal (17) of the hollow pin (7), following the insertion of a fluid introducer (S) into said inlet (12), to allow said elastic head (22) to take a condition for opening said pre-slit (26), the elastic head (22) in the condition for opening said pre-slit (26) remaining axially spaced from said closed terminal (17) of the hollow pin (7) of the base (1),

- a tubular stem (23) joined to said head (22) and having an internal annular gasket (26) in sliding contact with said hollow pin (7) to control the communication between said lateral passage (20) of the closed terminal (17) of the hollow pin (7) and the inlet (12),

- an end retaining part (24) having an end edge (29) locked between said base (1) and said lid (2) and joined to said tubular stem (23) through a section (28) which is elastically deformable under traction during the axial displacement of said elastic head (22) from said closing condition towards said opening condition,

- the lateral passage of said closed terminal (17) consists of a plurality of radial slots (20) separated from each other by external slides (21),

characterised in that:

- said closed terminal (17) has a reduced diameter,

- said external slides (21) are slide-like external intermediate protrusions cooperating with said internal annular gasket (26) of the tubular stem (23) of the elastic element (3) to open the communication between the inlet (12) and the outlet (6) of the connector when said elastic head (22) moves to said opening condition,

- said section (28) of the elastic element (3) is formed, even in said closing condition, with a convolute which - during the displacement of said elastic head (22) from said closing condition towards said opening condition - deforms under

traction within an annular space (10) of said base (1).

2. Valve connector according to claim 1, characterised in that said radial slots (20) are three.

3. Valve connector according to claim 1 or 2, characterised in that said tubular stem (23) of the elastic element (3) is internally formed with a circumferential series of axial grooves (35).