

Title (en)
TENSION RESPONSIVE PINCH VALVE

Title (de)
ZIEHKRAFTBEINFLUSST QUETSCHVENTIL

Title (fr)
ROBINET-VANNE A MANCHON SENSIBLE A LA TENSION

Publication
EP 0847509 A1 19980617 (EN)

Application
EP 96930825 A 19960911

Priority
• US 9614602 W 19960911
• US 53203095 A 19950921

Abstract (en)
[origin: WO9711296A1] A tension responsive pinch valve is made up of a combination of an elastically flexible pinch valve element and a length of flexible tubing having a section that is to be closed automatically by being distorted to the point of pinching or kinking and thus closing the lumen when the distorted section is not under longitudinal tension. The pinch valve element is associated longitudinally with the tubing section and preferably has two end portions connected by a shank portion. The end portions are attached to the tubing section at spaced-apart points longitudinally of the flexible tubing such that the length of the encompassed section is much longer than the shank portion of the pinch valve element. If the elastic yield strength of the shank portion is greater than the bend resistance of the flexible tubing, the encompassed section of the flexible tubing will be bent over to the point of occlusion when the section is not under tension but will allow the passage of fluid when longitudinal unkinking tension is applied.

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F16K 7/02

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Citation (search report)
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