CLAIMS

1. A control valve (5, 5') for connection units for flexible hoses, comprising a plurality of petals (segments or sectors) (6, 7; 6', 7') rotatable between a position of complete opening and a position of complete closing, characterized in that said petals (6, 7; 6', 7') are rotatable around pivoting axes defined by spherical pins (70) interposed between laterally adjacent petals and provided with a threaded positioning neck (71) inserted and screwed in a respective radial hole (72) of the body (1, 2) of the connection unit.

2. The control valve according to claim 1, characterized in that a locking cap (73) is screwed in said radial hole (72) and tightly abutting against said neck (71) of the spherical pin (70) for keeping said spherical pin (70) in a suitable position to enable a correct and precise pivoting between the two adjacent petals (6, 7; 6', 7').

3. The control valve according to claim 2, characterized in that it comprises a sealing gasket (75) inserted between said locking cap (73) and said radial hole (72).

4. The control valve according to claim 2, characterized in that said petals (6, 7; 6', 7') are provided with partially spherical seats (61, 63) for housing said spherical pins (70).

5. The control valve according to any one of the preceding claims, characterized in that the petals (7, 7') with larger size have a V-shaped end (31), the sides (32) of which are intended to fluid-tightly abut against the corresponding sides of other petals (7, 7') of larger size, and also with lateral sides (33) with a curved end (34) which include a step (35) on which a side of a petal (6, 6') of smaller size interposed between two petals (7, 7') of larger size rests when the valve (5, 5') is closed, and in that the petals (6, 6') of smaller size have a rounded end (36) with a step (37), which tightly engages the curved ends (34) of two adjacent petals (79) when the valve (5, 5') is closed, and straight sides (38) on which the step (37) continues, which

tightly engage the lateral sides (33) of the two adjacent petals (7, 7') when the valve (5, 5') is closed.

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CLAIMS

1. A control valve (5, 5') for connection units for flexible hoses and a connection unit, the control valve (5,5') comprising a plurality of petals (segments or sectors) (6, 7; 6', 7') rotatable between a position of complete opening and a position of complete closing, **characterized in that** said petals (6, 7; 6', 7') are rotatable around pivoting axes defined by spherical pins (70) interposed between laterally adjacent petals and provided with a threaded positioning neck (71) inserted and screwed in a respective radial hole (72) of the body (1, 2) of the connection unit.

2. The control valve according to claim 1, **characterized in that** a locking cap (73) is screwed in said radial hole (72) and tightly abutting against said neck (71) of the spherical pin (70) for keeping said spherical pin (70) in a suitable position to enable a correct and precise pivoting between the two adjacent petals (6, 7; 6', 7').

3. The control valve according to claim 2, **characterized in that** it comprises a sealing gasket (75) inserted between said locking cap (73) and said radial hole (72).

4. The control valve according to claim 2, **characterized in that** said petals (6, 7; 6', 7') are provided with partially spherical seats (61, 63) for housing said spherical pins (70).

5. The control valve according to any one of the preceding claims, **characterized in that** the petals (7, 7') with larger size have a V-shaped end (31), the sides (32) of which are intended to fluid-tightly abut against the corresponding sides of other petals (7, 7') of larger size, and also with lateral sides (33) with a curved end (34) which include a step (35) on which a side of a petal (6, 6') of smaller size interposed between two petals (7, 7') of larger size rests when the valve (5, 5') is closed, and **in that** the petals (6, 6') of smaller size have a rounded end (36) with a step (37), which tightly engages the curved ends (34) of two adjacent petals (79) when the valve (5, 5') is closed, and straight sides (38) on which the step (37) continues, which tightly engage the lateral sides (33) of the two adjacent petals (7, 7') when the valve (5, 5') is closed.