CLAIM

1. Valved connector for medical lines, particularly hemodialysis lines, comprising a male luer lock valved fitting (1) and a female luer lock fitting (2) that can be engaged with the male luer lock fitting (1), wherein the male luer lock fitting (1) comprises an outer body (3), an inner tubular element (6) displaceable axially and with respect to the outer body (3) between a receded position and an advanced position, and a hollow element made of elastic material (11) interposed between the outer body (3) and the inner tubular element (6) and having a transversal end wall (12) formed with a pre-cut (13) which - in the receded position of the inner tubular element (6) - is closed to cut off the flow between the female luer lock fitting (2) and the male luer lock fitting (1); the outer body (3) of the male luer lock fitting (1) being provided with a rotatable ring nut (4) having an inner threading (17) that can be screwed with an outer thread (16) of the female luer lock fitting (2), and said inner tubular element (6) being displaceable from the receded position towards the advanced position compressing said hollow element made of elastic material (11) and deforming said transversal end wall (12) so as to open said pre-cut (13), and the female luer lock fitting (2) having an inner luer cone (15) suitable to be axially engaged by friction with said inner tubular element (6) already before the screwing and even after the unscrewing of said rotatable ring nut (4) with respect to said outer thread (16) of the female luer lock fitting (2), characterised in that in the aforementioned receded position said inner tubular element (6) of the male luer lock valved fitting (1) is in immediate axial proximity and in front contact with

said transversal end wall (12) of the hollow element made of elastic material (11) whereby, when said inner luer cone (15) is engaged by friction with said inner tubular element (6) so as to axially push it towards the advanced position even before said inner threading (17) of the rotatable ring nut (4) can engage said outer thread (16) of the female luer lock fitting (2), said pre-cut (13) fully opens, and when said ring nut (4) is fully unscrewed from the female luer lock fitting, (2) said pre-cut (13) fully recloses instantly.