CLAIMS

1. A flow restrictor (16,17) of a fluid for aerostatic bearings of linear compressors characterized by the fact that the restrictor (16,17) is obtained through a deformation process of at least a portion of its inner section, the deformation being by obtained flattening or folding or blowing.

2. A flow restrictor (16,17) of a fluid for aerostatic bearings of linear compressors according to claim 1, characterized by the fact that the deformation is punctual or partial or total.

3. A flow restrictor (16,17) of a fluid for aerostatic bearings of linear compressors according to claims 1 to 2, characterized by the fact that the deformation is simultaneously partial and punctual.

4. A flow restrictor (16,17) of a fluid for aerostatic bearings of linear compressors according to claims 1 to 3, characterized by the fact that the restrictor (16,17) is made of metallic material.

5. A flow restrictor (16,17) of a fluid for aerostatic bearings of linear compressors according to claims 1 to 4, characterized by the fact that the restrictor (16,17) is made of polymeric material.

6. A flow restrictor (16,17) of a fluid for aerostatic bearings of linear compressors according to claims 1 to 5, characterized by the fact that the restrictor (16,17) is made of glass-ceramic material.

7. A flow restrictor (16,17) of a fluid for aerostatic bearings of linear compressors according to claims 1 to 6, characterized by the fact that the restrictor (16,17) is a microtube.

8. A production process of a fluid flow restrictor (16,17) for aerostatic bearings of linear compressors characterized by the fact that it comprises stages of:

i) deforming the internal section of the restrictor (16,17) in at least a portion of the restrictor (16,17);

ii) measuring the flow of a fluid in the restrictor (16,17);

iii) comparing the flow value of a fluid measured with the value previously specified;

iv) returning to stage i) if the flow value of the fluid is outside

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specification.

9. A production process of a fluid flow restrictor (16,17) for aerostatic bearings of linear compressors according to claim 16, characterized by the fact that between stage i) and stage ii) there is an intermediary stage which provides for a waiting time for the elastic return of its deformed portion.

10. A production process of a fluid flow restrictor (16,17) for aerostatic bearings of linear compressors according to claim 16, characterized by the fact that in stage i) the deformation is carried out by any type of process of plastic shaping.

11. A production process of a fluid flow restrictor (16,17) for aerostatic bearings of linear compressors according to claim 16, characterized by the fact that in stage i) the deformation is carried out by flattening.

12. A production process of a fluid flow restrictor (16,17) for aerostatic bearings of linear compressors according to claim 16, characterized by the fact that in stage i) the deformation is carried out by folding.

13 A production process of a fluid flow restrictor (16,17) for aerostatic bearings of linear compressors according to claim 16, characterized by the fact that in stage i) the deformation is by blowing.

14. A production process of a fluid flow restrictor (16,17) for aerostatic bearings of linear compressors according to claim 16, characterized by the fact that in stage i) the deformation is total.

15. A production process of a fluid flow restrictor (16,17) for aerostatic bearings of linear compressors according to claim 16, characterized by the fact that in stage i) the deformation is partial.

16. A production process of a fluid flow restrictor (16,17) for aerostatic bearings of linear compressors according to claim 16, characterized by the fact that in stage i) the deformation is punctual.

17. A production process of a fluid flow restrictor (16,17) for aerostatic bearings of linear compressors according to claim 16, characterized by the fact that in stage i) the deformation is simultaneously partial and punctual.

18. A production process of a fluid flow restrictor (16,17) for

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aerostatic bearings of linear compressors according to claim 16, characterized by the fact that in stage i) the deformation is carried out by flattening.

19. A compressor characterized by the fact that it comprises a flow restrictor (16,17) obtained by the process defined in claims 8 to 18.

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CLAIMS

1. Linear compressor comprising an aerostatic bearing forming a bearing between a piston and a cylinder, said aerostatic bearing having a flow restrictor, characterized by the fact that the restrictor (16,17) is obtained through a deformation process of at least a portion of its inner section, the deformation being obtained by flattening or folding or blowing.

2. Linear compressor comprising an aerostatic bearing forming a bearing between a piston and a cylinder according to claim 1, characterized by the fact that the deformation is punctual or partial or total.

3. Linear compressor comprising an aerostatic bearing forming a bearing between a piston and a cylinder according to claims 1 to 2, characterized by the fact that the deformation is simultaneously partial and punctual.

4. Linear compressor comprising an aerostatic bearing forming a bearing between a piston and a cylinder according to claims 1 to 3, characterized by the fact that the restrictor (16,17) is made of metallic material.

5. Linear compressor comprising an aerostatic bearing forming a bearing between a piston and a cylinder according to claims 1 to 4, characterized by the fact that the restrictor (16,17) is made of polymeric material.

6. Linear compressor comprising an aerostatic bearing forming a bearing between a piston and a cylinder according to claims 1 to 5, characterized by the fact that the restrictor (16,17) is made of glass-ceramic material.

7. Linear compressor comprising an aerostatic bearing forming a bearing between a piston and a cylinder according to claims 1 to 6, characterized by the fact that the restrictor (16,17) is a microtube.

8. A production process of a fluid flow restrictor (16,17) for aerostatic bearings of linear compressors characterized by the fact that it comprises stages of:

i) deforming the internal section of the restrictor (16,17) in at least a portion of the restrictor (16,17);

ii) measuring the flow of a fluid in the restrictor (16,17);

iii) comparing the flow value of a fluid measured with the

value previously specified;

iv) returning to stage i) if the flow value of the fluid is outside specification.

9. A production process of a fluid flow restrictor (16,17) for aerostatic bearings of linear compressors according to claim 16, characterized by the fact that between stage i) and stage ii) there is an intermediary stage which provides for a waiting time for the elastic return of its deformed portion.

10. A production process of a fluid flow restrictor (16,17) for aerostatic bearings of linear compressors according to claim 16, characterized by the fact that in stage i) the deformation is carried out by any type of process of plastic shaping.

11. A production process of a fluid flow restrictor (16,17) for aerostatic bearings of linear compressors according to claim 16, characterized by the fact that in stage i) the deformation is carried out by flattening.

12. A production process of a fluid flow restrictor (16,17) for aerostatic bearings of linear compressors according to claim 16, characterized by the fact that in stage i) the deformation is carried out by folding.

13 A production process of a fluid flow restrictor (16,17) for aerostatic bearings of linear compressors according to claim 16, characterized by the fact that in stage i) the deformation is by blowing.

14. A production process of a fluid flow restrictor (16,17) for aerostatic bearings of linear compressors according to claim 16, characterized by the fact that in stage i) the deformation is total.

15. A production process of a fluid flow restrictor (16,17) for aerostatic bearings of linear compressors according to claim 16, characterized by the fact that in stage i) the deformation is partial.

16. A production process of a fluid flow restrictor (16,17) for aerostatic bearings of linear compressors according to claim 16, characterized by the fact that in stage i) the deformation is punctual.

17. A production process of a fluid flow restrictor (16,17) for aerostatic bearings of linear compressors according to claim 16, characterized by the fact that in stage i) the deformation is simultaneously partial and punc-

tual.

18. A production process of a fluid flow restrictor (16,17) for aerostatic bearings of linear compressors according to claim 16, characterized by the fact that in stage i) the deformation is carried out by flattening.

19. A compressor characterized by the fact that it comprises a flow restrictor (16,17) obtained by the process defined in claims 8 to 18.