

Title (en)

PNEUMATIC PINCH VALVE FOR SHUT-OFF AND REGULATION OF AN AIRS FLOW OR OTHER PROCESS FLOW

Title (de)

PNEUMATISCHES SCHLAUCHQUETCHVENTIL ZUM SCHLIESSEN ODER STEUERN VON LUFTSTRÖMEN ODER ANDEREN FLUIDEN

Title (fr)

ROBINET A MANCHON PNEUMATIQUE PERMETTANT D'INTERROMPRE ET DE REGULER L'ECOULEMENT DE L'AIR ET D'AUTRES FLUX DE TRAITEMENT

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Application

EP 99969479 A 19990906

Priority

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Abstract (en)

[origin: WO0017549A2] The invention consists of a valve with a flexible diaphragm for shutoff and regulation of air flow in ventilation ducting, liquid ducts, powder transport plants (conveyor) and for dosing of shoot bulk in industries. The valve consists of a cylindrical flexible diaphragm extended in a tube equipped with adequate connections for standard ducting (e.g. ventilation nipples) or process ducting. The diaphragm is fastened to the tube in such a way that compressed air can be blown into the space between the diaphragm and the tube causing the valve to close, fully or partly. The diaphragm of the valve is equipped with 2 special guide vanes that ensure the diaphragm to close in two tongues meeting in the centre. The guide vanes ar moulded in a shape so that they cover the part of the cross section of the valve that is not covered by the two tongues of the diaphragm. Thus the pinch valve can close fully and at the same time in partly open condition a slit is formed that is well suited for regulating an air flow or other process flow. The invention will be able to replace existing ventilation dampers and air regulating valves made of metal as it can be produced at a similar price, and at the same time has many advantages and flexibilities of the pinch valve.

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