

Keywords Bioinspired · Soft robot · BSS valve · SM actuator 1 Introduction Soft robots are an emerging field with advantages of flexibility and environmental adaptability actuated by fluid or smart materials. They can achieve variable stiffness [1, 12], passive energy ...

The rapid development of the global economy has led to a notable surge in energy demand. Due to the increasing greenhouse gas emissions, the global warming becomes one of humanity's paramount challenges [1]. The primary methods for decreasing emissions associated with energy production include the utilization of renewable energy sources (RESs) ...

A multi-valve flexible heat pump system with latent thermal energy storage for defrosting operation. ... It has been replaced by 6 ball valves allowing a flexible switch between the different modes; ... The refrigerant flows from the compressor directly to the heat storage through valve V3 to be condensed and store heat in it. The refrigerant ...

In nature, organisms widely use the interaction of muscle contraction and biological pipelines to form an efficient fluid control mechanism. Herein, a pneumatically powered, Bioinspired Soft Switching valve (BSS valve) with short response time and low-energy consumption is described. The BSS valve is composed of flexible walls, a flexible tube and ...

Solenoid valves for gas VG; Motorized valves for gas VK; Solenoid valves for gas VGP; V5055 Industrial gas valves, V4055 Fluid power actuators; V5097 Integrated gas valve train; V4944B, L, N/8944B, C, L, N Two-stage pressure regulating gas valves; V4046/V8046 Pilot gas valves; V48/V88 Diaphragm gas valves; V4943/V8943 Single-stage pressure ...

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The invention discloses an industrial electromagnetic type gas emergency cut-off valve containing an energy storage valve closing module, wherein in an upper cover component of a valve body, a closed permanent magnetic lock component and a housing of an executing mechanism are connected on an upper cover of the valve body; a bottom part of the upper cover of the valve ...

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