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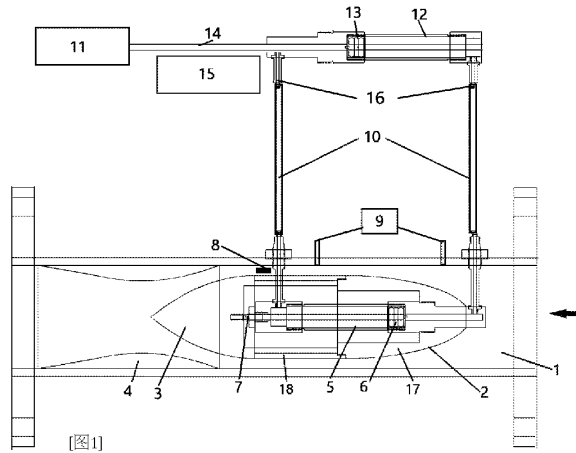
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(54) Title: ADJUSTMENT VALVE AND FLOW ADJUSTMENT SYSTEM

(54) 发明名称: 调节阀和流量调节系统



[图1]

(57) Abstract: The present invention relates to an adjustment valve and a flow adjustment system, and belongs to the field of hydraulic adjustment valves. The adjustment valve comprises: a valve body, a valve seat, a valve core, a flow adjustment component, an actuator oil cylinder, a positioner oil cylinder, a power apparatus and a position detection apparatus. The valve seat and the flow adjustment component are mounted in the valve body. A cylinder body of the actuator oil cylinder is connected to the flow adjustment component. The valve core is connected to an actuation piston rod of the actuator oil cylinder. The positioner oil cylinder is connected to a cavity of the actuator oil cylinder. The power apparatus is connected to a positioning piston rod of the positioner oil cylinder. The position detection apparatus cooperates with the positioning piston rod of the positioner oil cylinder, and the positioner oil cylinder cooperates with the cavity volume, the cavity length, and the piston rod stroke of the actuator oil cylinder. The present invention places the positioner oil cylinder in communication with the cavity of the actuator oil cylinder, such that position information of the piston rod of

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the positioner oil cylinder accurately represents position information of the valve core, that is, degree of openness information of the valve, thereby solving the problem in the prior art of uncertain valve openness information.

(57) 摘要: 本发明涉及调节阀和流量调节系统, 属于液压调节阀领域。该调节阀包括: 阀体、阀座、阀芯、节流件、执行器油缸、定位器油缸、动力装置和位置检测装置, 阀座和节流件安装在阀体内, 执行器油缸的缸体与节流件连接, 阀芯与执行器油缸的执行活塞杆连接, 定位器油缸与执行器油缸的腔体相应连通, 动力装置与定位器油缸的定位活塞杆连接, 位置检测装置与定位器油缸的定位活塞杆相配合, 定位器油缸与执行器油缸的腔体容积、腔体长度和活塞杆行程相互配合。本发明通过定位器油缸与执行器油缸的腔体相应连通, 使得定位器油缸活塞杆的位置信息准确地代表了阀芯的位置信息, 也就是阀门的开度信息, 解决了现有技术阀门开度信息的不确定的问题。