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ABSTRACT

GATE VALVE ACTUATOR

A gate valve actuator including an housing, a piston, a lower end closure, and a piston cylinder end cap. The piston is situated within the housing, and the lower end closure connects the housing and the piston. The piston cylinder end cap also connects the housing and the piston. The housing, the piston, the lower end closure, and the end cap define a main actuator cavity. The connection between the lower end closure and the piston and the connection between the piston cylinder end cap and the piston are sealable connections. The main actuator cavity is substantially isolated from ambient air and from a control fluid, which prevents moisture build-up and hence prevents corrosion of the internal components of the actuator.

Figure 1