

ABSTRACT

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An electro-hydraulic actuator, includes: a motor 3 configured to output rotative power; an external gear pump 7 configured to be activated by the motor; a hydraulic actuator 5 configured to be operated by a pressurized working fluid supplied by the external gear pump; a manifold block 6 in which a flow channel forming a working fluid circuit of the hydraulic actuator is incorporated; a first portion configured to store the motor; a second portion configured to store the external gear pump, the hydraulic actuator, and a reservoir; and a coupling portion 2 configured to couple the first portion and the second portion with each other in a liquid-tight state, wherein the coupling portion includes a communication hole 21 through which the first portion and the second portion communicate with each other, a rotational shaft 31 of the motor and a driving shaft 71 of the external gear pump are joined to each other in the communication hole, and the external gear pump is attached to the coupling portion while being stored in the manifold block.

Fig. 3