[DESCRIPTION]

[Title of Invention]

VALVE DEVICE AND METHOD FOR ASSEMBLING VALVE DEVICE

[Technical Field]

[0001] The present disclosure relates to a valve device and a method for assembling a valve device.

[Background Art]

[0002] In the valve device disclosed in Patent Literature 1, an orifice plate is disposed on a body, and a valve seat member, an inner disk, a diaphragm, and the like are placed on the orifice plate. By threadedly engaging a bonnet with the body, constituent elements including the orifice plate are fixed to the body.

[Citation List]

[Patent Literature]

[0003]

[Patent Literature 1] Japanese Patent No. 4137267

[Summary of Invention]

[Technical Problem]

[0004] In the valve device disclosed in Patent Document 1, when the threaded engagement between the bonnet and the body is loosened, all of the constituent elements become loosened. In order to prevent this, a valve device may be configured such that an inner member having a flow passage formed therein is disposed within a housing recess of the body in which the orifice plate is disposed, a thrust ring is disposed on the inner member, and a fixing ring is threadedly engaged with a threaded portion formed on an inner peripheral surface of the housing recess so as to press the inner member toward a bottom surface of the housing recess via the thrust ring. The thrust ring suppresses co-rotation of the inner member caused by rotation of the fixing ring. A diaphragm is disposed on the inner member and is fixed to the inner member via a retainer adapter by threadedly engaging the bonnet with the body.

[0005] In assembling the valve device having the above-described configuration, when the thrust ring is disposed on the inner member, the inner member is not provided with a positioning structure or a fixing structure for the thrust ring. Accordingly, positional displacement may occur due to vibration or the like, and the displacement may need to