Claims

1. A downhole tool, comprising:

a first implement;

an actuator adapted to actuate the first implement in a first direction;

a biasing device adapted to actuate the first implement in a second direction, opposite the first direction;

a dampener adapted to slow an actuation speed of the first implement in the first direction, the second direction, or both, wherein:

the dampener is or includes a guide rod assembly including a guide rod, and an orifice or an integral pressure relief member; or

the dampener is or includes a sleeve having a slot formed therein, and a guide adapted to engage the slot; and

a flow control device ("FCD") including a flow sleeve and a second implement to which the first implement is connected;

wherein actuating the first implement in the first direction also actuates the second implement in the first direction to place the flow sleeve in a first configuration; and

wherein actuating the first implement in the second direction also actuates the second implement in the second direction to place the flow sleeve in a second configuration.

2. The downhole tool of claim 1,

wherein the first configuration in which the flow sleeve is placed when the second implement is actuated in the first direction is or includes an open configuration in which the flow sleeve permits fluid flow through the downhole tool; and

wherein the second configuration in which the flow sleeve is placed when the second implement is actuated in the second direction is or includes a closed configuration

in which the flow sleeve prevents, or at least reduces, fluid flow through the downhole tool.

3. The downhole tool of claim 1,

wherein the FCD extends within a first internal space of the downhole tool;

wherein the first implement, the actuator, the biasing device, and the dampener extend within a second internal space of the downhole tool; and

wherein the second internal space is external to the first internal space.

4. The downhole tool of claim 3,

wherein the second internal space is separated from the first internal space by an internal wall of the downhole tool;

wherein the first internal space is or includes a central flow passageway of the downhole tool; and

wherein the second internal space is or includes an annular space of the downhole tool located between the internal wall and an external wall of the downhole tool.

5. The downhole tool of claim 1,

wherein the dampener is or includes a labyrinth seal.

6. The downhole tool of claim 1,

wherein the guide rod assembly comprises:

the guide rod;

the integral pressure relief member; and

a secondary miniature relief valve.

7. The downhole tool of claim 1,
wherein at least a portion of the slot is helical.

8. The downhole tool of claim 1,
wherein the second implement is integrally formed with the first implement.

9. A method, comprising:
actuating, using an actuator of a downhole tool, a first implement in a first direction, wherein actuating the first implement in the first direction also actuates a second implement of a flow control device ("FCD") of the downhole tool, to which the first implement is connected, in the first direction, placing a flow sleeve of the FCD, to which the second implement is connected, in a first configuration;
actuating, using a biasing device of the downhole tool, the first implement in a second direction, opposite the first direction, wherein actuating the first implement in the second direction also actuates the second implement of the FCD in the second direction, placing the flow sleeve in a second configuration; and
slowing, using a dampener of the downhole tool, an actuation speed of the first implement in the first direction, the second direction, or both, wherein:
the dampener is or includes a guide rod assembly including a guide rod, and an orifice or an integral pressure relief member; or
the dampener is or includes a sleeve having a slot formed therein, and a guide adapted to engage the slot.

10. The method of claim 9,
wherein the first configuration in which the flow sleeve is placed when the second implement is actuated in the first direction is or includes an open configuration in which the flow sleeve permits fluid flow through the downhole tool; and

wherein the second configuration in which the flow sleeve is placed when the second implement is actuated in the second direction is or includes a closed configuration in which the flow sleeve prevents, or at least reduces, fluid flow through the downhole tool.

11. An apparatus, comprising:

a first implement;

an actuator adapted to actuate the first implement in a first direction;

a biasing device adapted to actuate the first implement in a second direction, opposite the first direction;

a dampener adapted to slow an actuation speed of the first implement in the first direction, the second direction, or both, wherein:

the dampener is or includes a guide rod assembly including a guide rod, and an orifice or an integral pressure relief member; or

the dampener is or includes a sleeve having a slot formed therein, and a guide adapted to engage the slot; and

a flow control device ("FCD") including a flow sleeve and a second implement to which the first implement is connected, the flow sleeve and the second implement configured to move in unison with the first implement.

12. The apparatus of claim 11,

wherein the dampener is or includes a labyrinth seal.

13. The apparatus of claim 11,

wherein the guide rod assembly comprises:

the guide rod;

the integral pressure relief member; and

a secondary miniature relief valve.

14. The apparatus of claim 11,
wherein at least a portion of the slot is helical.

15. The apparatus of claim 14,
wherein the slot is or includes a J-slot.