CLAIMS:

1. A fluid delivery device comprising;

a housing;

a piston configured to be controllably translated within the housing;

a plug having a distal end thereof connected to a proximal end of the piston, the plug being configured to translate within the housing;

an interlock mechanism between the housing and the piston comprising an arcuate cam slot in one of the housing and the piston, and a pin on the other one of the housing and the piston that is configured to engage with the cam slot;

wherein the proximal end of the piston is configured with a notch region therein that defines a telescopic fluid chamber in which the distal end of the plug can translate relative to the piston to permit fluid to flow into the fluid chamber and to discharge fluid from the fluid chamber, and when the piston is rotated, the cam slot is configured to control a distance along which the piston translates relative to the housing.

2. The fluid delivery device of claim 1, wherein the housing comprises a reservoir port through which fluid is introduced into the housing and a patient port through which fluid is discharged from the housing.

3. The fluid delivery device of claim 2, wherein the piston is controllably translated to align the fluid chamber with the reservoir port during an intake operation of the fluid delivery device, and to align the fluid chamber with the patient port during a discharge operation of the fluid delivery device.

4. The fluid delivery device of claim 1, wherein the plug is configured with a frictional engagement relative to the housing that provides an amount of friction to cause translation of the plug to lag relative to the piston until the amount of friction is overcome by translation of the piston.

5. The fluid delivery device of claim 4, wherein the proximal end of the piston comprises a notch region dimensioned to allow the distal end of the plug to move relative to the piston, the distal end of the plug translates between two end stop positions within the notch region, when the distal end of the plug reaches one of the two end stop positions, the amount of friction is overcome and the plug translates with the piston relative to the housing.

6. The fluid delivery device of claim 3, wherein the plug and the piston are each provided with a seal, and the respective seals are configured to confine fluid in the fluid chamber between the seals.

7. The fluid delivery device of claim 6, the plug is configured with a frictional engagement relative to the housing that provides an amount of friction to cause translation of the plug to lag relative to the piston until the amount of friction is overcome by translation of the piston, and the seal on the piston is configured to contribute to the amount of friction.