68. A system as in claim 66, wherein the medical device causes fluid flow through the fluid pathway to be restricted.

69. A method comprising:

receiving data generated by at least one sensor of a fluid port characterizing at least one attribute of fluid within a manually administrable fluid source, the fluid port comprising: a fluid channel, a fluid inlet at a first end of the fluid channel configured to couple to an outlet of the manually administrable fluid source, and a fluid outlet at a second end of the fluid channel configured to deliver fluid from the manually administrable fluid source to a fluid pathway, and the at least one sensor;

receiving data characterizing and/or relating to a fluid compatibility;

determining that the at least one attribute in the received data matches at least one condition specified by at least one rule; and

generating at least one flow modification signal based on the data characterizing and/or relating to the fluid compatibility and the characterized at least one attribute matching at least one condition specified by at least one rule, which when received by a flow control valve, causes the flow control valve to change a level of fluid flow restriction being applied to fluid passing through the flow control valve.

70. A method comprising:

receiving data generated by at least one sensor of a fluid port characterizing at least one attribute of fluid within a manually administrable fluid source, the fluid port comprising: a fluid channel, a fluid inlet at a first end of the fluid channel configured to couple to an outlet of a manually administrable fluid source, and a fluid outlet at a second end of the fluid channel configured to deliver fluid from the manually administrable fluid source to a fluid pathway;

receiving data characterizing and/or relating to a fluid compatibility;

determining that at least one attribute in the received data matches at least one condition specified by at least one rule;

generating, by a controller in communication with the at least one sensor, at least one operation modification signal based on the data characterizing and/or relating to the fluid compatibility and the characterized at least one attribute matching at least one condition specified by at least one rule; and

wireless transmitting, by a transmitter, the operation modification signal to at least one device, the operation modification signal, when received by the at least one device, causes the at least one device to modify at least one operating parameter.

71. The method of claim 70, wherein the at least one operating parameter is an amount of fluid passing through a flow control valve.

68. A system as in claim 66, wherein the medical device causes fluid flow through the fluid pathway to be restricted.

69. A method comprising:

receiving data generated by at least one sensor of a fluid port characterizing at least one attribute of fluid within a manually administrable fluid source, the fluid port comprising: a fluid channel, a fluid inlet at a first end of the fluid channel configured to couple to an outlet of the manually administrable fluid source, and a fluid outlet at a second end of the fluid channel configured to deliver fluid from the manually administrable fluid source to a fluid pathway, and the at least one sensor;

receiving data characterizing and/or relating to a fluid compatibility;

determining that the at least one attribute in the received data matches at least one condition specified by at least one rule; and

generating at least one flow modification signal based on the data characterizing and/or relating to the fluid compatibility and the characterized at least one attribute matching at least one condition specified by at least one rule, which when received by a flow control valve, causes the flow control valve to change a level of fluid flow restriction being applied to fluid passing through the flow control valve.

70. A method for controlling fluid flow through a system, the system comprising:

a fluid port comprising:

a fluid channel:

a fluid inlet at a first end of the fluid channel configured to couple to an outlet of a manually administrable fluid source: and

a fluid outlet at a second end of the fluid channel configured to deliver fluid from the manually administrable fluid source to a fluid pathway that provides fluid to a patient;

at least one sensor to characterize at least one attribute of the fluid from the manually administrable fluid source;

a flow controller in communication with the at least one sensor that

generates at least one flow modification signal in response to the characterized at least one attribute matching at least one condition specified by at least one rule; and

a flow control valve in communication with the flow controller and positioned along the fluid pathway at a location separate and distinct from the fluid port, the flow control valve changing a level of flow restriction of fluid from the manually administrable fluid source passing therethrough in response to receiving the at least one flow modification signal,

the method comprising:

receiving the data generated by the at least one sensor of the fluid port determining that the at least one attribute in the received data generated by the at least one sensor matches the at least one condition specified by the at least one rule; and

generating the at least one flow modification signal, such that the flow control valve changes the level of fluid flow restriction being applied to the fluid passing through the flow control valve.

71. A method for controlling fluid flow through a system, the system comprising:

a fluid port comprising:

a fluid channel;

a fluid inlet at a first end of the fluid channel configured to couple to an outlet of a manually administrable fluid source; and

a fluid outlet at a second end of the fluid channel configured to deliver fluid from the manually administrable fluid source to a fluid pathway that provides fluid to a patient;

at least one sensor to characterize at least one attribute of the fluid from the manually administrable fluid source;

a controller in communication with the at least one sensor that generates at

least one operation modification signal in response to the characterized at least one attribute matching at least one condition specified by at least one rule; and

a transmitter for wirelessly transmitting the operation modification signal to at least one device, the operation modification signal, when received by the at least one device, causing the at least one device to modify at least one operating parameter,

the method comprising:

receiving the data generated by the at least one sensor of the fluid port determining that the at least one attribute in the received data generated by the at least one sensor matches the at least one condition specified by the at least one rule;

generating the, at least one operation modification signal in response to the characterized at least one attribute matching the at least one condition specified by the at least one rule; and

wireless transmitting, the operation modification signal to the at least one device, such that the at least one device modifies the at least one operating parameter.