[CLAIMS]

[Claim 1]

A joint comprising:

a first block;

a second block; and

a single pipe section connecting the first block and the second block, wherein

the first block, the second block, and the single pipe has a first gas passage and a second gas passage inside therein,

the first gas passage is formed so that a first port which opens at an outer surface of the first block, the single pipe section, and a second port which opens at an outer surface of the second block communicate with each other,

the second gas passage is formed so that a third port and a fourth port which open at the outer surface of the second block communicate with each other,

the second port is disposed between the third port and the fourth port, and

the outer surface of the first block and the outer surface of the second block face a same side, and the first port and the second port open on the same side,

the first gas passage includes a first passage formed on the first block and a second passage formed on the second block,

the first passage includes the first port and an another port open at an another outer surface of the first block,

the second passage includes the second port and an another port open at an another outer surface of the second block, and

the single pipe section includes a first single pipe connected to the another port of the first block and a second single pipe connected to the another port of the first block, the first single pipe and the second single pipe being connected each other to form the single pipe.

[Claim 2]

The joint according to claim 1, wherein

the first gas passage has a first passage formed in the first block and a second passage formed in the second block,

the second passage includes a passage formed to be orthogonal to the outer surface of the second block, and

the second gas passage is formed to keep out of the second passage.

[Claim 3]

A fluid control device comprising:

a plurality of gas lines, each of the gas lines including a plurality of fluid control apparatuses and joints on which the fluid control apparatuses are installed, wherein

each of the joints including:

a first block;

a second block; and

a single pipe section connecting the first block and the second block, wherein

each of the joints has a first gas passage and a second gas passage inside the joints,

the first gas passage is formed so that a first port which opens at an outer surface of the first block, the single pipe section, and a second port which opens at an outer surface of the second block communicate with each other,

the second gas passage is formed so that a third port and a fourth port which open at the outer surface of the second block communicate with each other,

the second port is disposed between the third port and the fourth port, and

the outer surface of the first block and the outer surface of the second block face a same side, and the first port and the second port open on the same side,

the first gas passage includes a first passage formed on the first block and a second passage formed on the second block,

the first passage includes the first port and an another port open at an another outer surface of the first block,

the second passage includes the second port and an another port open at an another outer surface of the second block, and

the single pipe section includes a first single pipe connected to the another port of the first block and a second single pipe connected to the another port of the first block, the first single pipe and the second single pipe being connected each other to form the single pipe.

[Claim 4]

The fluid control device according to claim 3, wherein

the plurality of fluid control apparatuses include a first valve device which is a two-way valve device, a second valve device which is a three-way valve device, and a purge gas pipe configured to supply purge gas,

each of the joints is arranged so that the first block is disposed on an upstream side of the second block,

the first valve device is installed on the first block, and

the second valve device and the purge gas pipe are installed on the second block.

[Claim 5]

The fluid control device according to claim 3, wherein

the plurality of fluid control apparatuses include a valve device which is a three-way valve device, a purge gas pipe configured to supply purge gas, and a flow rate control apparatus,

each of the joints is arranged so that the second block is disposed on an upstream side of the first block,

the valve device and the purge gas pipe are installed on the second block, and

the flow rate control apparatus is installed on the first block.

[Claim 6]

The fluid control device according to any one of claims 3 to 5, wherein

the first gas passage has a first passage formed in the first block and a second passage formed in the second block,

the second passage includes a passage formed to be orthogonal to the outer surface of the second block, and

the second gas passage is formed to keep out of the second passage.