CAMOZZI
Automation

INTEGRATED VALVE MANIFOLD FOR GAS GENERATOR

Air is a mixture of oxygen and nitrogen; an oxygen concentrator separates these two gases and increases the proportion of oxygen from about 21% to about 90%.
Atmospheric air is trapped by the concentrator and filtered.
A compressor then raises the pressure of the air.

The compact manifolds for gas management feature an on/off or proportional fluid control function which can be used for fast switching and high flow rates while assuring high reliability and long life.
Typically used in electro-medical applications, these systems can be customised to meet detailed specifications or requirements, including for use in a clean room environment.

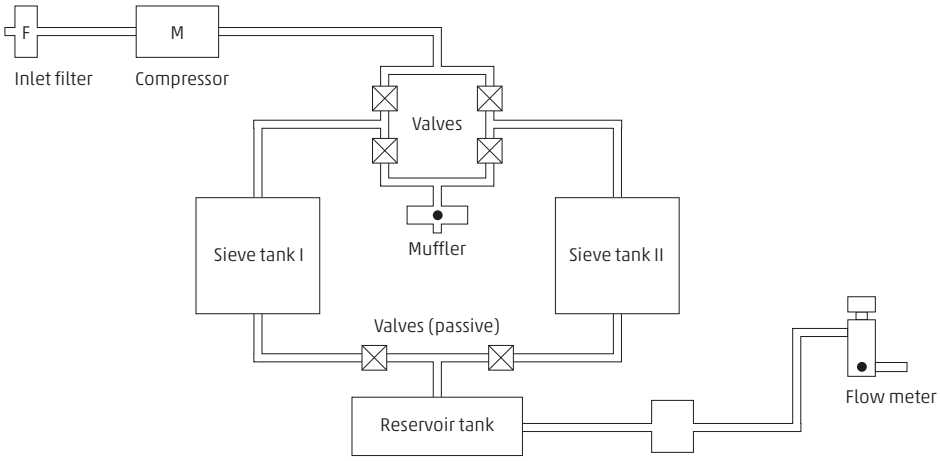
The concentrator consists of two molecular sieves, a compressor and a control unit

In use the compressor pumps air into the two sieve columns where oxygen, nitrogen and water are separated out from one another

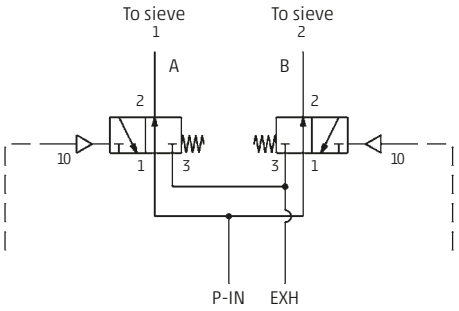
The control unit can be set to provide, for example, a continuous oxygen supply for respiratory therapy

A regulator's function is to reduce and control pressure of the oxygen on the output port

Manifold integrated solution
Flip block sieve control



In-line poppet valve 2x3/2 solenoid valves

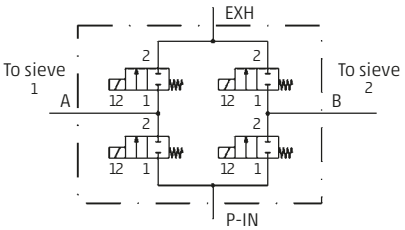


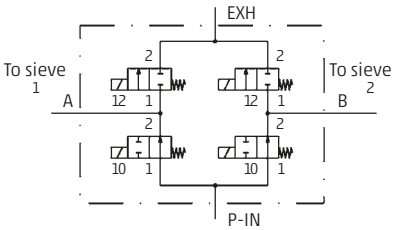
General data

Pressure	1 ÷ 3 bar
Media	air / oxygen
Flow	kv =13 l/min 600 Nl/min air at 2.5 bar free flow 510 Nl/min air at 2.0 bar free flow
Voltage	6-12-24 V DC
Power consumption	2x1 Watt
Cycles	on/off 7 seconds life 30,000 hrs (5 years), 20 Mcycles

Other manifold functions are available on request.

In-line poppet valve 4x2/2 solenoid valves





General data

Pressure	1 ÷ 6 bar
Media	air / oxygen
Flow	kv =10 l/min 460 Nl/min air at 2.5 bar free flow 400 Nl/min air at 2.0 bar free flow
Voltage	6-12-24 V DC
Power consumption	4x1 Watt
Cycles	on/off 5 seconds life 30,000 hrs (5 years), 20 Mcycles

Other manifold functions are available on request.

10/2019