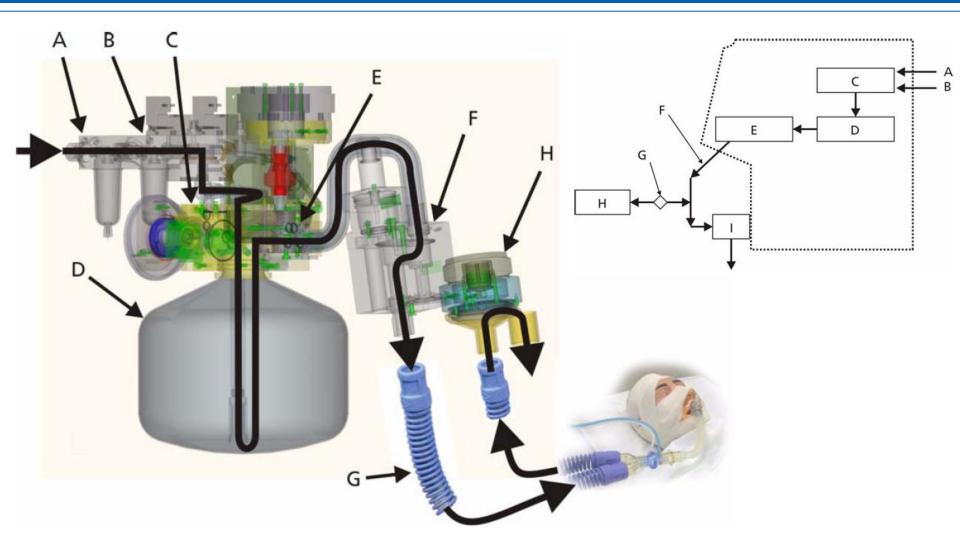
HAMILTON-G5/S1 pneumatic

[Version 2012.10.30]

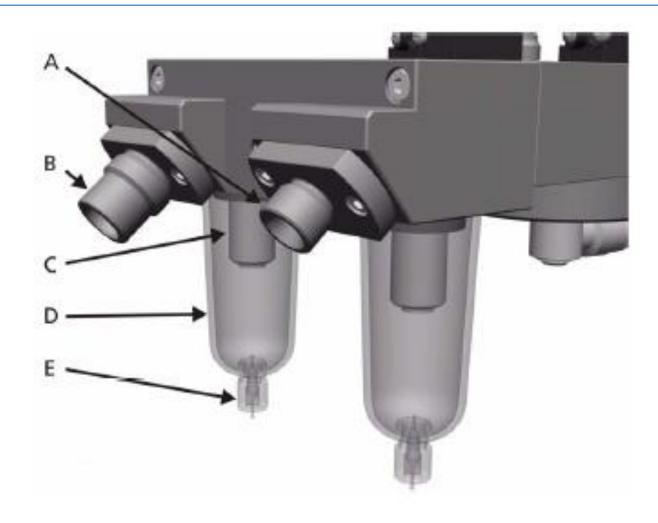


Pneumatic overview





Gas Supply, water separation and filter





Gas mixer

Part 2

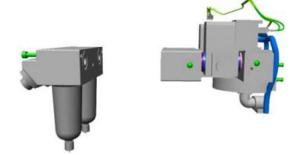


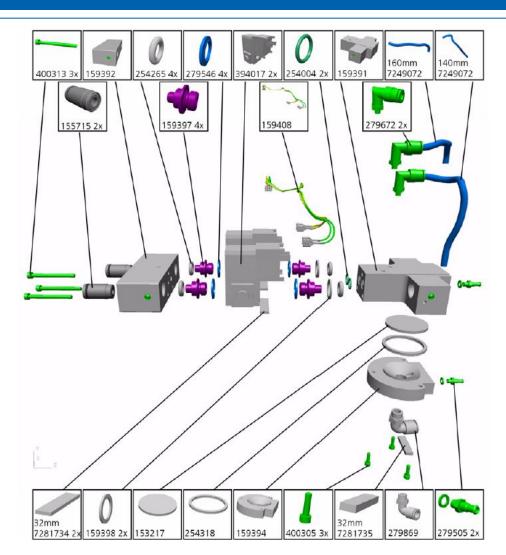


Part 1



Gas mixer

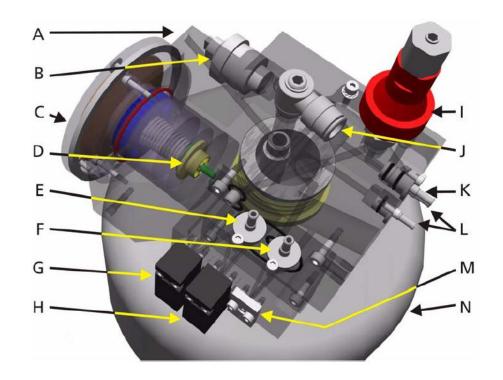






Interconnection block

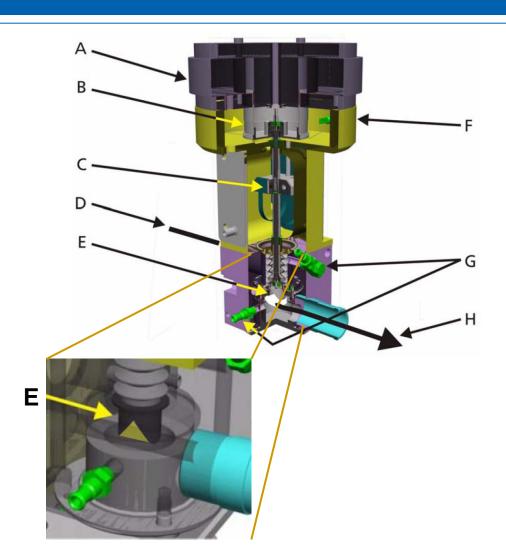
- a. Exhaust from oxygen cell
- b. Oxygen cell
- c. sound absorber
- d. Tank overpressure valve
- e. Air inlet for oxygen cell calibration
- f. Outlet for auxiliary rinse flow
- g. Oxygen cell calibration valve oxygen
- h. Oxygen cell calibration valve air
- i. Pressure regulator
- j. Inlet from mixer
- k. Outlet to nebulizer valve 7l/min
- Outlet rinse flows flow measurement
- m. Esophogeal rinse flow on/off plate
- n. Tank





Inspiratory valve

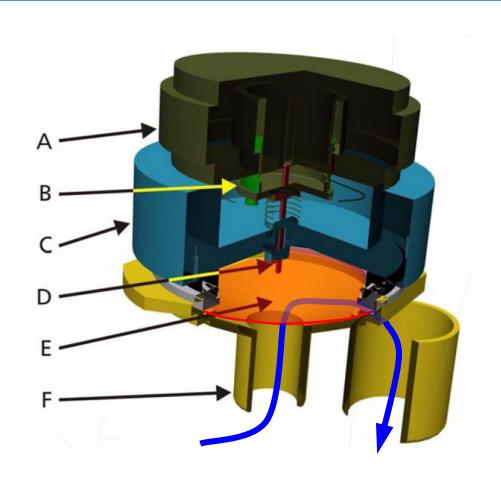
- A. Magnet
- B. Positioning coil
- C. Position sensing device
- D. Inlet from tank
- E. Variable orifice (plunger)
- F. Electrical connection
- G. Connection to differential pressure sensor servo
- H. Outlet to patient breathing circuit





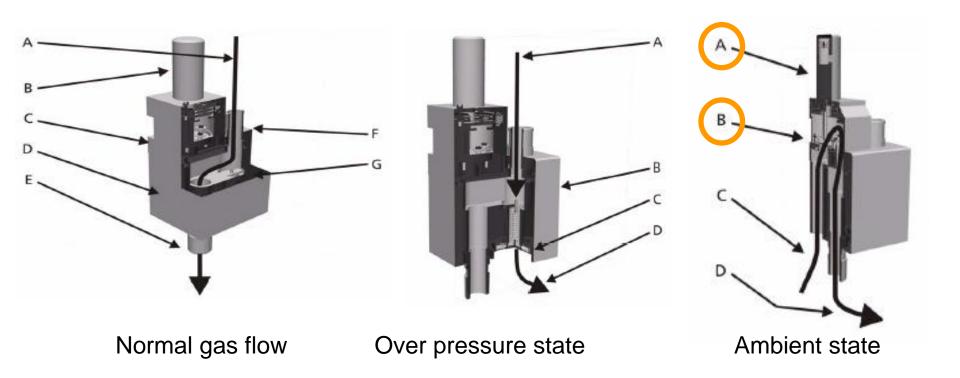
Expiratory valve

- A. Magnet
- B. Positioning coil
- C. Electric connection (not visible)
- D. Plunger
- E. Silicon membran
- F. Patient breathing circuit connection





Patient safety valve block



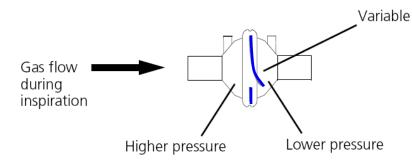
CAUTION

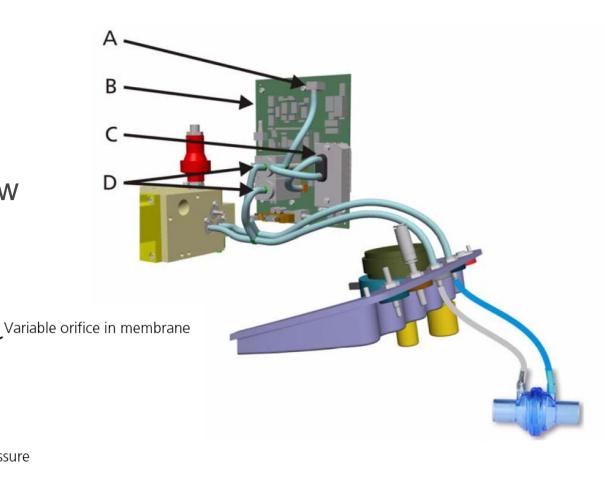
Do not attempt to repair the Patient Overpressure Relief Valve. HAMILTON MEDICAL AG does not permit anyone to make any repairs in the field at a level lower than the smallest parts provided in Appendix H, Spare Parts



Flow mesurement

- A. Pressure sensor proximal
- B. Sensor board
- C. Pressure sensor flow measurement
- D. Auto zero valves

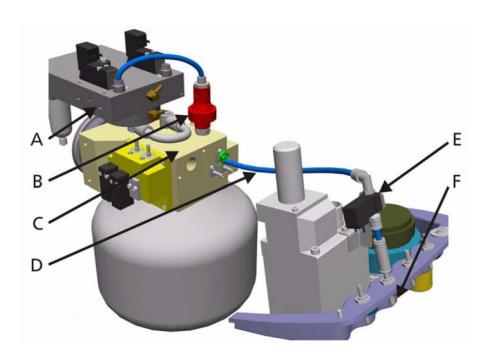






Nebulizer system

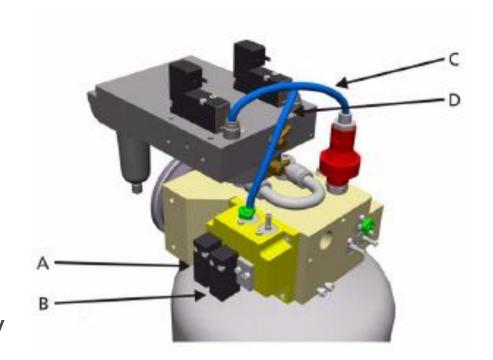
- A. Mixer Block
- B. Pressure Regulator
- C. Interconnection Block
- D. Tubing to the Nebulizer Valve
- E. Nebulizer Valve
- F. Nebulizer Front Panel connector





FiO2 (oxygen concentration) control and measurement

- A. Valve for oxygen cell calibration (air)
- B. Valve oxygen cell calibration (oxygen)
- C. Tubing connects oxygen supply
- D. Tubing connects air supply



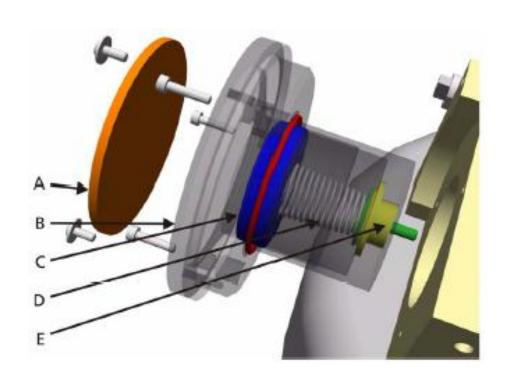
WARNING

The HAMILTON-G5 Ventilator should never be used for ventilating a patient without some means of monitoring the oxygen content in the gas mixture delivered to the patient.



Tank overpressure valve

- A. Sintered Disk
- B. Aluminium housing
- C. Adjustment Ring
- D. Tension Spring
- E. Sealing and valve plate

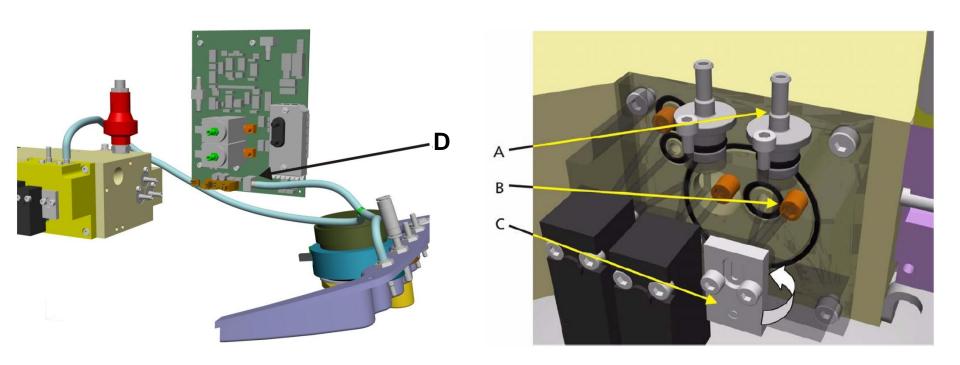


CAUTION

Do not attempt to repair the Tank Overpressure Relief Valve. HAMILTON MEDICAL AG does not permit anyone to make any repairs in the field at a level lower than the smallest parts provided in Appendix H, Spare Parts



Auxillary pressure measurement



WARNING

For Esophageal measurement, the metal plate (Esophageal Plate) must be switched to the OFF position to stop the Auxiliary Rinse Flow, indicated by the letter O on the outside of the Esophageal Plate.



End