Innovative High Performance Polymer Pressure Regulator

MDT Staff

The Model 55 pressure regulator features a non-rising stem within a small footprint

design, delivering high precision control in a lightweight and compact package. Manufactured entirely from polymer and stainless steel, the Model 55 offers compatibility with medical and scientific gases such as nitrogen, helium and oxygen. Applications include precision pressure decay and leak testing, medical ventilators, respiratory diagnostic systems, balloon pumps and sterilisation equipment.

A patent-pending venturi design compensates for downstream pressure droop under flow and provides highly accurate pressure output control under all conditions. The separate control chamber isolates the control diaphragm from the main flow to eliminate hunting and buzzing. With supply capacity up to 150 psi (10 Bar) and flow capacity up to 10 SCFM (283 litres/minute) the Model 55 controls output pressures up to 100 psi (0.7 Bar) to within +/- 0.2 psi (14 mBar) or better, even with fluctuating or rapidly decreasing supply pressure. This high pressure capability, combined with pinpoint accuracy at low control pressures of 7.5 psi (0.5 Bar) or less, sets the Model 55 apart from conventional regulators for demanding applications.

For more information, visit www.fairchildproducts.com [1].

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