

The Vital Medical Oxygen Regulator Pin Index (VM-RPI) is a CGA870-style medical oxygen pressure regulator for pin-index cylinder valves used on small portable oxygen cylinders. Flow 0-15 L/min, 12-level adjustment, 50PSI outlet. ISO 13485, CE, FDA, and ASTM G175-03 certified.

What Is a Pin Index Oxygen Regulator?

The VM-RPI (MD870-UF) is a CGA870 pin-index style medical oxygen regulator designed for small portable oxygen cylinders commonly used in ambulances, emergency departments, and patient transport. The pin-index safety system (PISS) uses a unique pattern of pins on the regulator yoke that physically matches only the correct cylinder valve - preventing accidental connection of the wrong gas. CGA870 is the international standard for portable medical oxygen cylinders.

Clinical Applications

Pin-index regulators are the standard choice for portable oxygen cylinders used in pre-hospital care, patient transport, and bedside supplemental oxygen therapy in ward and clinic settings. The VM-RPI's 0-15 L/min flow range with 12-level adjustment covers all clinical oxygen delivery modes - nasal cannula, simple mask, partial rebreather, non-rebreather, nebulisation, and oxygen-powered resuscitation. The compact, lightweight aluminium body keeps the cylinder assembly portable for ambulance and paramedic use.

Safety and Certification

The pin-index design is a critical safety feature - without it, a high-flow oxygen regulator could theoretically be connected to a nitrous oxide cylinder, with potentially fatal results. The VM-RPI is certified to ISO 13485, CE, FDA, and ASTM G175-03, confirming its construction and materials meet the standards for medical oxygen service. The outlet pressure of 50PSI is compatible with standard oxygen delivery devices and driven resuscitators.

Technical Specifications

Specification	Detail
Specification	Value
Model	MD870-UF (CGA870 Pin Index)
Connection	Pin Index (PISS, CGA870)
Flow Range	0 ? 15 L/min (12 adjustment levels)
Outlet Pressure	50 PSI
Body Material	Lightweight anodised aluminium
Outlet Type	Barb or DISS
Certifications	ISO 13485, CE, FDA, ASTM G175-03
Application	Portable O2 cylinders, ambulance, patient transport

SKU: VM-RPI