

Emergency Vent and Manhole Cover (Hinged) Model 94210

The Model 94210 Emergency Vent and Manhole Cover is an economical solution to emergency venting requirements where intermediate pressure settings are required.

The design of Model 94210 employs a flexible diaphragm affording a tight seal between the pallet and the corrosion resistant seat below set pressure. This also assures low leakage. The diaphragm is intended for normal ambient temperature storage. Special diaphragms for tanks storing products other than oils and gasoline are available.

Standard design is available in 10", 16", 20", 24", 30" and 36" sizes. The 10", 16", 20", 24", 30" and 36" vents have a flat face flange which matches a 150 lb. ANSI flange. The 20" and 24" vents have a flat face flange to fit API Roof Manholes. Special construction types are also available.

When set pressure is achieved, the pallet starts to lift. Flow efficiency rises rapidly to approximately 60% of a perfect orifice at 40% excess of the set pressure. At higher overpressure the flow efficiency approximates 75%.



For tank venting or examination, the entire hinged cover may be lifted open in a matter of seconds, offering clear passage through the unobstructed opening. Since no gasket replacement or unbolting is necessary, this vent eliminates the expensive manpower needed to put conventional emergency vents back in operation.

Pallet construction permits a wide variety of pressure settings. See specifications for various pressure settings of all vent sizes.

Features and Benefits

- Easy installation and handling for inspection
- Tank examination requires no gasket replacement or unbolting
- 10," 16", 20", 24", 30" and 36" base designed to fit 150 lb. ANSI flange
- 20" & 24" sizes designed to fit API 650 or 150# ANSI
- DIN sizes available
- Materials of construction include Aluminum, Steel, & 316SS

Emergency Vent and Manhole Cover Setting Range

Model Numbers	Sizes Available	Connections	Pressure
Model 94210	10", 16", 20", 24", 30" and 36"	API, ANSI and DIN	4.7 mbar to 34.5 mbar

Materials of Construction

Base, Hing Arm	Seat, Hinge Pin, Pallet Guide Stem	Pallet	Diaphragm (Clamp Ring)	Back-up Disc	Diaphragm	Clamp Ring
Steel	Teflon	Aluminum	Aluminum Steel	Reinforced fiber composition (non-asbestos)	Teflon	Aluminum

