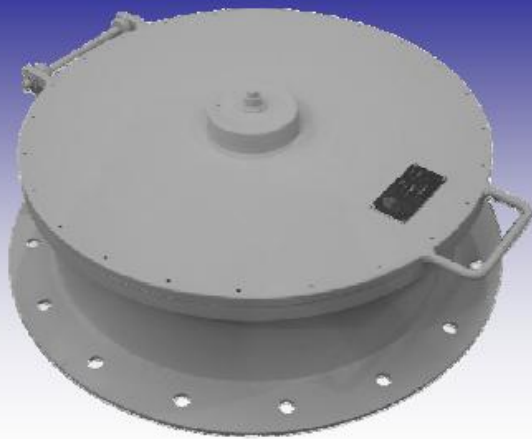


TECHNICAL DATA

Storage Tank Equipment

Emergency Relief Manhole Cover



Application:

Elmac Technologies® non-sparking emergency relief manhole covers permit access to low pressure storage tanks and provides emergency venting capacity in the event of fire.

They are used extensively on bulk storage tanks, including floating roof tanks, low pressure gas pipeline systems, digesters, and gas holders.

Principle of Operation

Emergency relief manways are fitted to storage tanks to allow emergency flow due to the excessive venting requirement from a fire burning around a storage tank. This eliminates a costly tank rupture, providing emergency venting from abnormal internal pressure beyond the capability of the pressure relief vent. In the event of a fire the pallet will lift at a pre-determined pressure, thus supplying a large venting area.

Manways employ a PTFE insert affording a tight seal below set pressure between the pallet and the corrosion resistant seat. An alternative model is available, fitted with an additional spring-loaded vacuum valve that will open under negative pressure to protect the tank from any vacuum condition damage that may occur.

Benefits

- Hinged pallet can be manually lifted allowing access to the tank for cleaning and inspection
- Range of sizes and materials to suit diverse applications
- Wide range of pressure settings to provide maximum tank protection whilst ensuring minimum gas loss
- Low cost maintenance
- ATEX approved to directive 94/9/EC

Materials & Options

Model	Emergency Relief Manhole Cover
Sizes (Nominal Bore)	10" 12" 18" 20" 24"
Process Connection	1. API650 (20" & 24") 2. ANSI 150# 3. Special (on request)
Materials	1. Aluminium 2. Cast Iron 3. Carbon Steel 4. Stainless Steel 5. Special (on request)
Diaphragm & Insert	PTFE
Weight	1. Lead Plate (Standard) 2. Stainless Plate (Special)
Pressure Settings	3"wc (7.5mbar) - 36.2"wc (90mbar)
Vacuum Settings	3.46"wc (9mbar) - 10"wc (25mbar)