

# Emergency Pressure Vent & Manhole Cover Model 94520

Model 94520 Emergency Vent provides emergency venting and manhole requirements, where intermediate pressure relief beyond that provided by tank breather vents is required. This vent is not intended to meet requirements of explosion relief, but is designed to relieve excessive internal pressure. It is an economical solution to costly and dangerous tank roof rupture problems.

Model 94520 is available in 10", 16" and 20" sizes and is designed to utilize a patented, magnetic latch system, which provides greater flow capacities than conventional weight loaded vents. It also provides for 100% opening at set pressure with no overpressure required. The magnetic latching principle eliminates hundred of pounds of loading weights required by conventionally loaded vents. The vent is tightly latched utilizing permanent magnets, which are mounted to the vent cover and act on a magnetic stainless steel plate on the vent base. As the pressure increases, the magnetic attraction between the base and cover remains constant, until the set pressure is reached. The setting is determined by the size and strength of the magnets.

Since the force required to overcome the magnets is



much greater than the force (or pressure) required to support the lightweight cover, the vent immediately goes to full open at the set pressure. There is no "simmering" or leakage as the tank pressure approaches set pressure.

The vent cover is prevented from opening more than 90° via spring loaded cables. These cables are attached to the cover and the vent body. This will assure the cover to self close once fully opened.

## Features and Benefits

- Magnetic latching eliminates expensive loading weights
- Instantaneous opening at set pressure, no overpressure required
- Unique diaphragm construction ensures tight seal between pallet and seat
- 20" opening provides for clear passage when used as a manhole

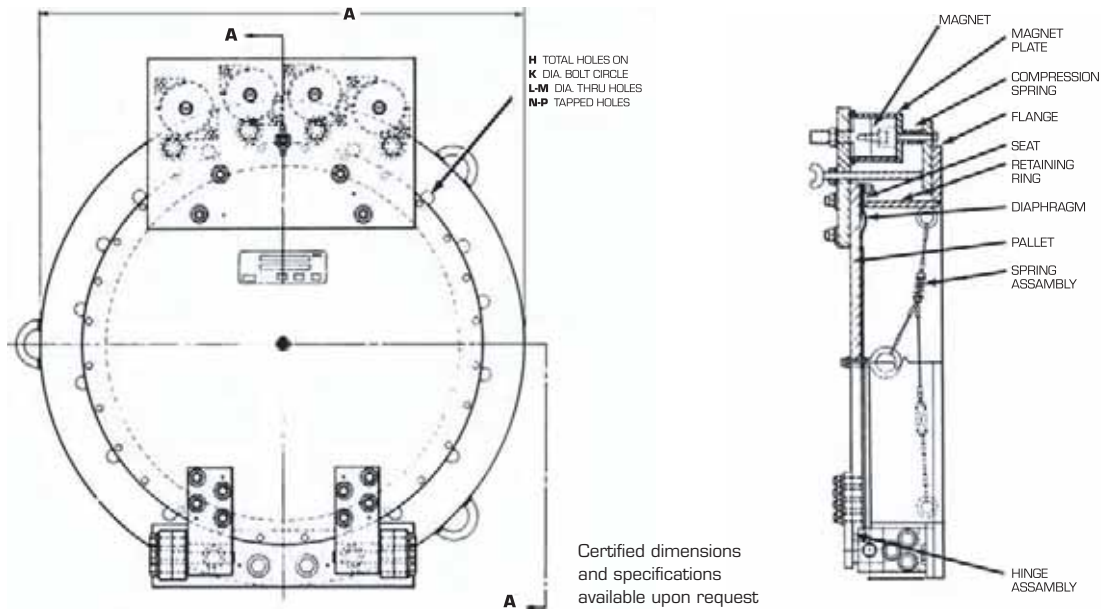
## Emergency Pressure Vent & Manhole Cover Setting Range

Model Numbers	Sizes Available	Connections	Pressure
Model 94520	10", 16" and 20"	API, ANSI	10.8 mbar to 154.7 mbar

## Materials of Construction

Seat	Flange, Pallet, Hinge (Bracket-) assembly	Spring Assembly	Diaphragm	Back-up Gasket (slot) Gasket	Magnet Plate Compression Ring	Retaining-Ring
Stainless Steel	Teflon	SS Type 316	Teflon Coated Fiberglass	N8090	Stainless Steel Type 416, Type 302	Steel

# Emergency Pressure Vent & Manhole Cover Model 94520

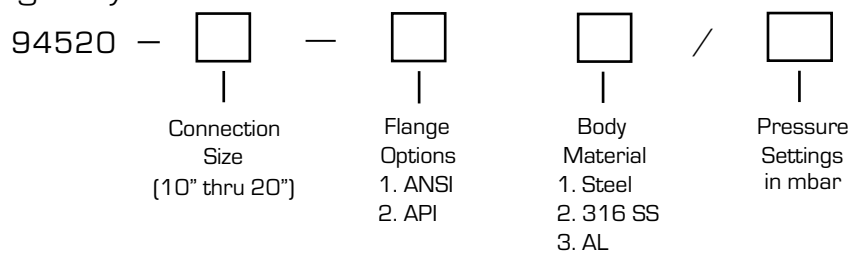


## OUTLINE DIMENSIONS

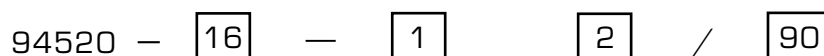
Size	A	B	C	D	E	F	G	H	K	L	M	N	P
10"	406	489	184	264	254	159	113	12	362	152	25	152	22
16"	597	686	286	305	387	164	113	16	540	254	29	152	25
20"	705	811	327	365	508	168	113	16	597	305	19	102	16

Dimensions in mm.

## Key to Emergency Pressure Vent & Manhole Cover Model Number



Example:



Indicates an Emergency Pressure Vent & Manhole Cover with 16" ANSI Flange. 316 Stainless Steel Body with a Pressure Setting of 90 mbar.