

# **World Class Tank Safety & Environmental Protection Products**



- o Flame Arrestor*
- o Pressure Vacuum Breather Valve*
- o Slot Dipping Device*
- o Free Vent*
- o Emergency Vent & Manhole Cover*
- o Gauge Hatches – Dip Hatch*



# PV Breather Valve & Flame Arrestor

## PV BREATHER VALVE:

### OPERATION

This range Pressure & Vacuum Breather Valves minimize vapour losses from storage tanks during operations, whilst preventing internal pressure and vacuum conditions from exceeding the tank design limits. Hence, both product and vessel are protected, as well as the tank environmental conditions.

### INSTALLATION

The Pressure & Vacuum Breather Valve should be mounted on tank roof nozzles as close as possible to the tank roof, to ensure that pressure under the pallet is maintained within 3% of the tank pressure.

### MATERIALS OF CONSTRUCTION

Body: Aluminium alloy LM-25/ C.S/ SS  
 Seat: Aluminium alloy LM-25/ C.S/ SS  
 Pallet: Aluminium  
 Screen: Stainless Steel AISI 304  
 Guides: Stainless Steel AISI 304  
 Diaphragm: Fluorinated Ethylene Propylene (FEP)  
 Hood: Galvanised Steel  
 Hardware: Stainless Steel AISI 304

*\*For special requirement contact us*



### SIZES:

50mm (2"), 80mm (3"), 100mm (4"),  
 150mm (6"), 200mm (8"), 250mm (10"), 300 (12")

End Connections: ASA 150FF/ or as specified.

## FLAME ARRESTOR:

### OPERATION

Flame Arrestors prevent the passage of flames in storage vessels and along associated pipework systems and have applications in a wide range of industries including petroleum and petrochemicals, gas, marine and sewage treatment.

### INSTALLATION

Flame Arrestors should be mounted with the axis vertical and as close as possible to the potential source of ignition.

Flame Arrestors have been designed for fitting to the down-turned end of free vent pipes.

### CONSTRUCTION

Flame Arrestor consists of a tube bank made up of spirally wound alternate layers of flat and corrugated stainless steel sheets, built around a solid core. The tube bank offers a multiplicity of small holes parallel to the line of flow. The tube element is retained between two flanged end sections and contained within an outer shell.

### SIZES:

50mm (2"), 80mm (3"), 100mm (4"),  
 150mm (6"), 200mm (8"), 250mm (10"), 300 (12")

End Connections: ASA 150FF/ or as specified.

### MATERIALS OF CONSTRUCTION

Body: Aluminium alloy LM-25/ C.S/ SS  
 Shell: Aluminium alloy LM-25/ C.S/ SS  
 Core Tube: Aluminium  
 Tube Bank: Stainless Steel AISI 304  
 Hood: Galvanised Steel  
 Hardware: Mild Steel

*\*For special requirement contact us*

# Slot Dipping Device & Dip Gauge Hatch

## SLOT DIPPING DEVICE:

The Slot Dipping Device has been designed to provide convenient and safe methods for dipping, sampling and product temperature gathering functions in bulk storage tanks containing volatile and hazardous products.

### OPERATION

The Slot Dipping Device has been designed to provide a convenient and safe means of manually measuring the levels and temperature and taking samples of petroleum, petrochemical, chemical and other volatile or hazardous liquids in bulk storage tanks, in pressures of up to 40" (1016 mm) WG.

- \* Negligible loss of vapor
- \* Operators not exposed to hazardous vapours
- \* No product spillage due to wiping of the tape

### SPECIFICATIONS

Sizes: 150mm (6") / 200mm (8")/ or as specified  
 Mounting Flange: Flanged or as specified.



### MATERIALS OF CONSTRUCTION

Body, Base & Cover: Aluminium alloy LM-25/ C.S  
 Sealing Ring: Nitrile/ or as specified.

## DIP GAUGE HATCH:

### OPERATION

Gauge Hatches have been designed to provide secure, vapor-tight, non-sparking access ports for storage tank dipping and sampling functions. Designed to minimize vapor losses from low pressure tanks. Hinged cover is normally self-closing or foot operated. Acts as a vent should tank pressure rise above 2" (50 mm) WG-(plus or minus 15%).

### VARIATIONS

Lockable Gauge Hatch Size can be fitted with a padlock for anti-theft product security. Cover lip design ensures that when the padlock is in place the cover cannot be removed.

Spark proof Gauge Hatch Size Specially designed to meet safety standards. Hand operated hatch with heavy stay-back cover with vapor tight seal and anti-sparking security.



Pressure Type Gauge Hatch provides positive vapor tight closure for use on pressure vessels up to 15 psi (1.05 bars). Lockable version with padlock available as extra.

## Emergency Vent

### EMERGENCY VENT:

#### OPERATION

Free Vents are supplied to petroleum, chemical and other industries for installation on tanks storing non-volatile products where vapour conservation is not necessary. It combines venting, dipping and sampling facilities in one fitting. This provides a venting capability only.

#### CONSTRUCTION

Major components are in Aluminium Alloy LM-6 and LM-25 and other components are in stainless, galvanized or cadmium plated steel. The screen is 4x4 mesh, but 28 x 28 can be supplied if a spark arresting capability is required.



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