

# Building Trust: Delivering a One-Stop Tank Top Solution

## RESULTS

- Secured project despite strong regional competition.
- Reduced tank top device count.
- Delivered compliant, high-capacity, flame-protected solution.
- Strengthened long-term trust after a critical safety event.



## APPLICATION

Flammable Media Storage

## CUSTOMER

Oil Storage Tank terminal company in Southeast Asia

## CHALLENGE

Following a fire incident that resulted in the loss of two tanks in operation, the customer urgently needed to improve tank safety.

After detailed observations, highlighted issues were related to requirements on flame protection, higher flow capacity, increased inbreathing capacity, and designs to accommodate high back pressure (>10% of set pressure).

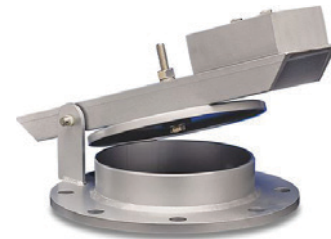
Considering customer's priority, expectation was to have optimized number of devices on tank tops ensuring full compliance with updated international venting and emission standards, and meet a strict project timeline.



*Enardo™ In-Line Flame Arrestor*



*Enardo Lock-Down Hatches*



*Enardo Emergency Relief Vent*

### SOLUTION

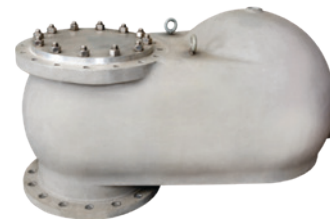
We delivered a comprehensive one-stop tank top solution that included **Pressure Vacuum Relief Valve (PVRV)**, **Flame Arrester (FA)**, **Emergency Relief Vent (ERV)**, and **Gauge Hatch (Lock down Hatch)** to ensure full flame protection, emission control, and compliance with the latest international standards, including API 2000.

To meet the customer's higher flow and inbreathing requirements, we engineered a high-capacity solution that achieved the required performance using a two-nozzle configuration—reducing tank top congestion compared to competitors who required three nozzles. Delivered proven and certified flame arresters for both the nozzles to reduce the risk of flame transmission. We also addressed high back pressure (greater than 10% of set pressure) conditions by offering pilot-operated valve, ensuring stable operation under demanding process scenarios.

Following the fire incident at Tank Terminal, we responded immediately with technical seminars and engineering support, helping the customer reassess venting requirements under the latest API 2000 revisions. With strong collaboration from the Chengdu, Tulsa & QingPu team, we reduced delivery time, enabling the customer to meet their quick turnaround recovery timeline. **Competitive pricing, fast response, and strong local after-sales service further reinforced trust and positioned us as a long-term safety partner.**



*Varec™ Vacuum Relief Valves*



*Anderson Greenwood™ Vacuum Breaker*



*Anderson Greenwood Low Pressure Pilot Relief Valves*

### Emerson

#### Americas

T +1 800 558 5853

T +1 972 548 3574

#### Europe

T +39 051 419 0611

#### Asia Pacific

T +65 6777 8211

#### Middle East / Africa

T +971 4811 8100

© 2026 Emerson. All rights reserved. The Emerson logo is a trademark and service mark of Emerson Electric Co. Anderson Greenwood, Enardo, and Varec are each a mark of an entity in the Emerson family of businesses. All other marks are the property of their respective owners. Neither Emerson nor any of its affiliated entities assume responsibility for the selection, use or maintenance of any product. Responsibility for proper selection, use, and maintenance of any product remains solely with the purchaser and end user. The contents of this publication are presented for informational purposes only, and while every effort has been made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. All sales are governed by our terms and conditions, which are available upon request. We reserve the right to modify or improve the designs or specifications of such products at any time without notice.