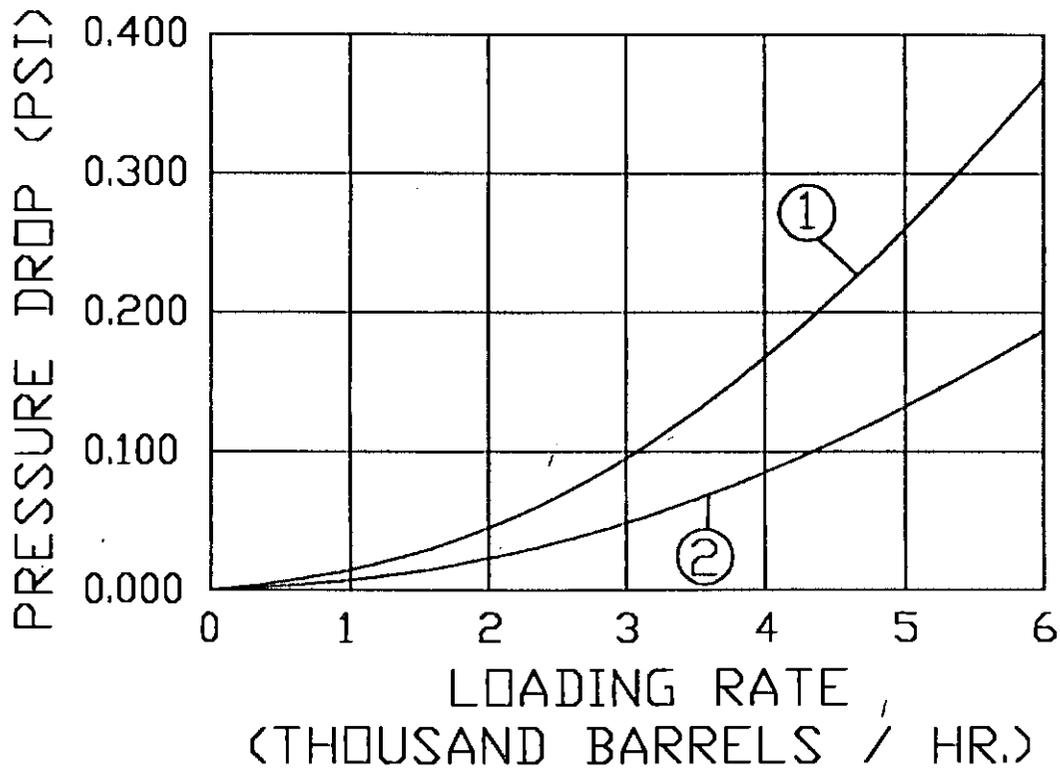


LEGEND

- ① FARTHEST TANK TO P/V VALVE
- ② FARTHEST TANK TO PRESENTATION FLANGE



NOTES:

PRESSURE DROP CURVES DRAWN FOR
CARGO VAPOR SPECIFIC GRAVITY OF 6.0

50% CARGO VAPOR / AIR MIXTURE

GROWTH RATE ASSUMED TO BE 1.25

P/V VALVE SET AT 1.5 PSI

**Marine Safety Center Vapor Control System (VCS) Plan Review
Information Sheet (PRIS) for Previously Approved VCS's**

Vessel Name	CBC 110 thru 114, 118 & 119	Shipyard	Firstwave Newpark
Official Number	0	Hull Number	117 thru 121, 125 & 126

1. This sheet consolidates critical VCS parameters for MSC Staff Engineers and CG Field Inspectors dealing with Vapor Control Systems. CG Inspectors should verify the vessel's VCS design is consistent with the information listed in boxes 2, 7, 8 & 9 prior to updating the vapor control endorsement on the vessel's Certificate of Inspection. For cases where the information in the VCS PRIS does not reflect the vessel's design the CG Inspector should contact the MSC's Cargo Authority branch.

2. Tank Maximum Design Working Pressure: psig Raised Trunk
Flush Deck

3. Authorized Maximum Cargo Transfer Rate: bbl/hr

4. Authorized Maximum Cargo Density: lbm/ft³

5. Cargo(es) with the highest vapor density and/or pressure drop:
 Gasoline

6. VCS Categories Authorized in Updated List:
 Category 1 Category 3 Category 5 Category 7
 Category 2 Category 4 Category 6

7. Pressure Vacuum Valve:		8. VCS Pipe Sizes:	
Manufacturer	<input type="text" value="Bergan - HV-4 (KLPH Series)"/>	Settings in psig:	Approx. Inside Diameter
Size	<input type="text" value="4 Inch"/>	Pressure-side	Longitudinal Header (inches) <input type="text" value="8"/>
CG Approval	<input type="text" value="Yes"/>	Vacuum-side	Transverse Header (Inches) <input type="text" value="8"/>

8. Tank Overfill Protection System (check appropriate box or boxes)

a. High Level/Tank Overfill Alarm	<input type="checkbox"/>	Type	<input type="text" value="N/A"/>	Meets ASTM F1271	Setting in psig <input type="text" value="N/A"/>
b. Overfill Control Shutdown	<input checked="" type="checkbox"/>	Type	<input type="text" value="Unknown"/>		
c. Spill Valve	<input type="checkbox"/>	Type	<input type="text" value="N/A"/>		
d. Rupture Disk	<input type="checkbox"/>	Type	<input type="text" value="N/A"/>		

9. Closed Gauging: Verify the vessel has closed gauging that satisfies 46 CFR 39.20-3 and 151.15-10(c).

10. Instructions/Guidelines for the OCMI:

9a. The following is an example of a typical VCS COI endorsement:
 "Only those cargoes named in the vessel's Cargo Authority Attachment, Serial #C2-0202169, dated 05 Jul 02, may be carried and then only in the tanks indicated. In accordance with 46 CFR Part 39, excluding part 39.40, this vessel's vapor control system has been inspected to the plans approved by Marine Safety Center letters Serial # C2-9904859 dated 11 Aug 99 and Serial #C2-0202169, dated 05 Jul 02, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column."

9b. The Marine Safety Center approval letter/s must be available at the OCMI's request.

9c. Previous applicable VCS approval letters: