

TECHNICAL SERVICE BULLETIN

Bulletin No.: TSB-028

Date: January 12, 2018

Subject: VP Load Pressure Relief Valve (PRV)

Models: Select 3600 PSI Quantum Virtual Pipeline Trailers

Background

Quantum Virtual Pipeline (VP) trailers have a Pressure Relief Valve (PRV) connected to the fill side of the trailer. This PRV is used to protect the system from an overpressure condition that may occur during the loading or filling of the trailer.

Condition

Some customers operating Quantum VP trailers have reported PRV valves intermittently activating at pressures lower than the intended set pressure.

Cause

Quantum has been advised by the supplier of the PRV, that the PRV spring used to directly control the venting pressure may not have been properly processed resulting in inconsistent spring pressure. This spring variation can result in erratic and unpredictable activation of the PRV valve.

**Correction**

PRV assemblies with new springs will be supplied to correct the concern.

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Labor Time

All 3600 psi VP Trailers:

Labor OP Time: Straight Time ~1.0 Hour

Parts Information

Description	Part Number	Qty
PRV ASM, FILL	118739	1
O-Ring- ½" ORFS	S3-20503-023	2

Application

The following VP Trailers should be inspected and if not already complete, have new PRV's installed. The trailers can be identified by referencing the information contained on the manufacturers label inside the left hand door.

VP Serial Number	VP Model Number
4000B6000041170040 4000B6000042170041 4000B6000042170042 4000B6000045170046 4000B6000045170047	118796 – VP Lite
4000B6000045170049 4000B9Q00047170050 4000B9Q00047170051 4000B9Q00047170052 4000B9000048170053 4000B9000049170054 4000B9000049170055 4000B9000049170060	118935 – VP Lite
4000BC000049170056 4000BC000049170057 4000BC000049170058	119111 – VP Lite

Contact Information:

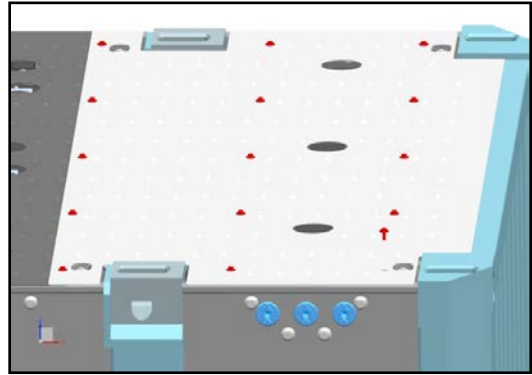
 E-Mail: QTService@qtww.com

Phone: 800.816.8691

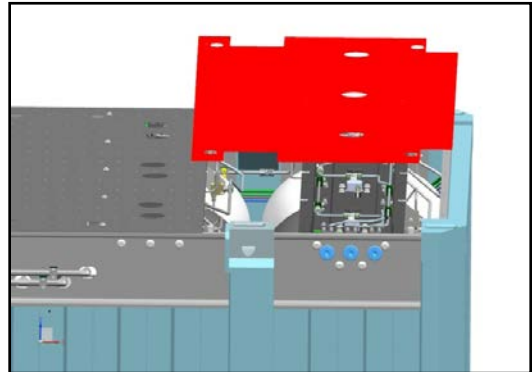
Fax: 949.930.3401

TECHNICAL SERVICE BULLETIN**R&R Load PRV****Removal**

1. Open the rear doors and secure open.
2. Remove and retain the fasteners securing the rear roof panel.

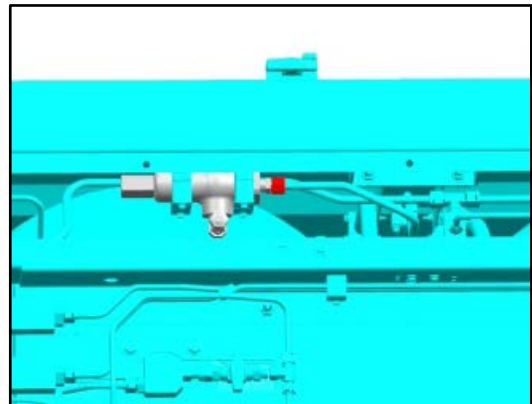


3. Mark the roof panel to indicate its position on the trailer. Remove and retain the roof panel.



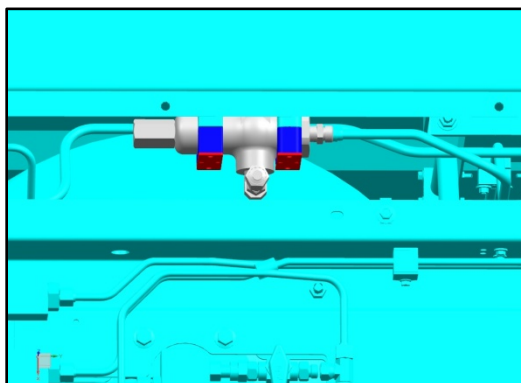
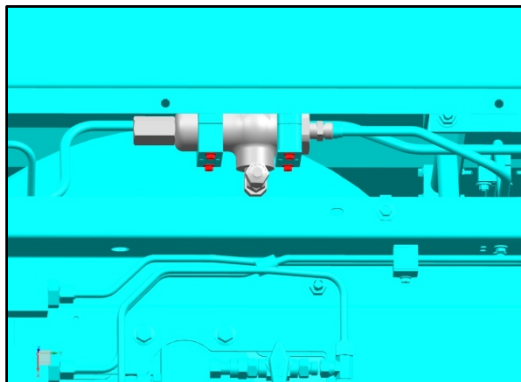
4. Disconnect the ½" fuel inlet line at the ORFS fitting

IMPORTANT: Do not attempt to remove the fittings from the PRV valve or the valve and fittings may be damaged.

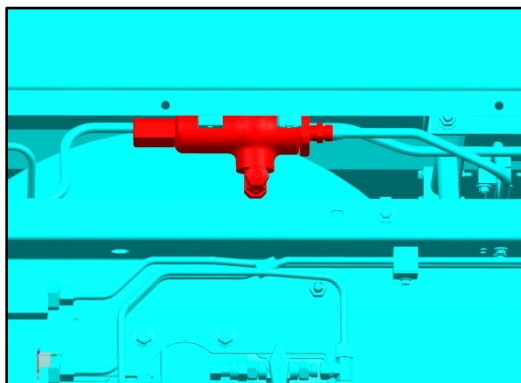


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5. Remove the PRV clamp mounting bolts, use care not to drop the bolts, plates or top half of the mounting block.

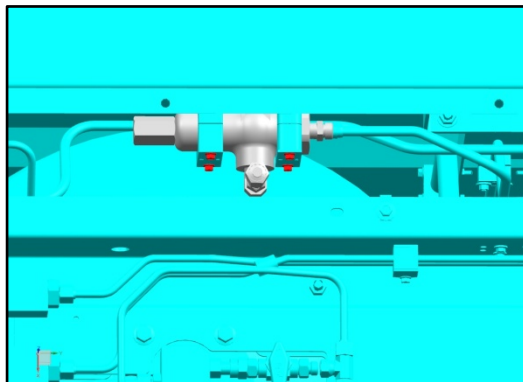


6. Remove the PRV assembly

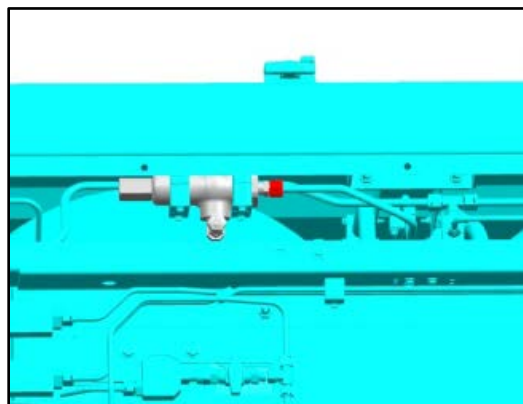


TECHNICAL SERVICE BULLETIN**Installation**

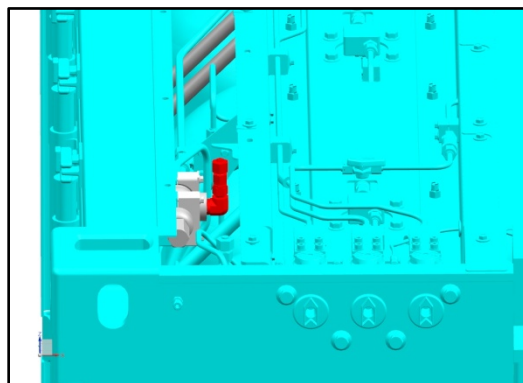
1. Install the PRV valve in the mounting blocks and install the retaining blocks and fasteners finger tight. Apply Loctite 243 or equivalent to the bolt threads.



2. Apply o-ring lubricant to the fitting seal and start the inlet fitting on the PRV valve.

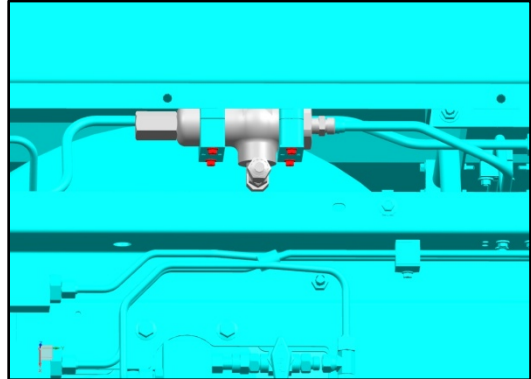


3. Orient the discharge fitting so it is pointing straight up.

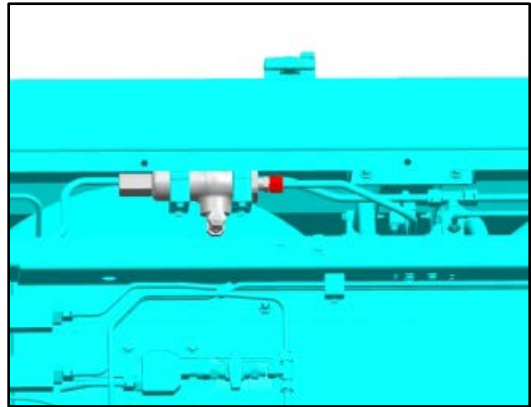


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4. Secure the PRV valve in the mounting blocks. Tighten bolts to 89 lb.in (10 N.m.)



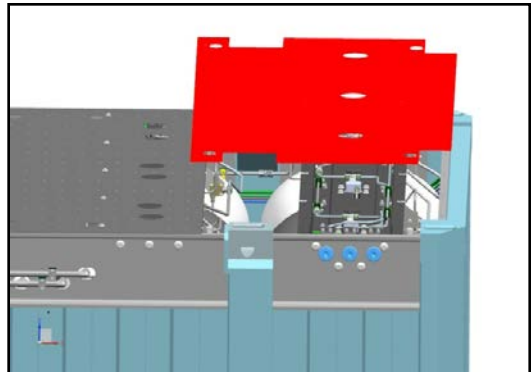
5. Tighten the inlet fitting to 43 lb.ft (58 N.m.)



6. Place the roof panel in the position and align as needed.

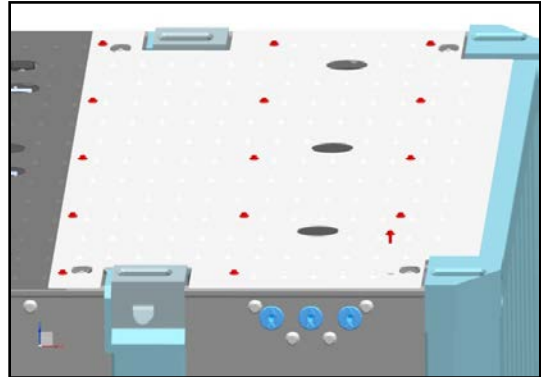
IMPORTANT: Use care when positioning the panels, when sliding the panels across the cross members, the edge of the roof panel can catch and knock off the U-Nuts.

Where panels overlap, the forward panel should always be on top of the panel to the rear.



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7. Loose fit all the roof panel fasteners..
Tighten fasteners to 22 ft. lbs (30 Nm.)



Revision B: added affected unit information