

Maintenance and Testing Instructions for:
RIS-STOP-3P (Pressure Fill)
OVERFILL PREVENTION VALVE

(applicable to both flanged and threaded versions)



**ALWAYS USE
NON-SPARK TOOLS!**

**RIS-STOP VALVES MUST ALWAYS BE TESTED FOR CORRECT
OPERATION BEFORE THE SITE INSTALLATION IS SIGNED OFF**



www.risbridger.com

Introduction

The RIS-STOP-3P Overfill Prevention valve is a Normally Closed, Failsafe and Testable mechanical tank overfill prevention device, suitable for pressure fill deliveries to above and below ground fuel storage tanks. The valves are designed and manufactured for use with Petroleum Spirit and Diesel.

NB: If use with alternative fuels outside this spectrum is required please refer to Risbridger Ltd.

The RIS-STOP-3P valve is opened with the flow of product being delivered into the tank, and is closed against the delivery flow when the float lifts at the preset maximum tank capacity (Normally 95% of Tank Capacity. For details of Installing Float Assembly to correct level please see RIS-STOP-FLOAT Installation Instructions.) Should the float become dislodged or damaged the valve will fail to open to receive fuel into the tank, this indicates a problem with the valve as this is the valves FAILSAFE mode.

Maintenance is recommended to be carried out on a 12 month period. Testing of the Valve's correct functioning is part of this Maintenance Procedure and is carried out during a delivery, when tank is at least 80% full. Further Testing Operations can be carried out to the owners' or operators' required schedules.

Should the RIS-STOP-3P Valves need servicing or replacement parts please refer to Risbridger Ltd for more information.

Before starting a Maintenance or Testing Operation Please make sure you observe the correct Health & Safety Precautions and carry out work with due adherence to Site Specific Regulations.

Before starting work ensure you have the following:-

RECOMMENDED MAINTENANCE TOOLS REQUIRED FOR RIS-STOP-3P



- Spanners 17mm, 19mm, 1¼ inch AF, 1½ inch AF (or adjustable up to 1½ inch)
- Metric sockets 17mm, 19mm
- Torque wrench
- Thread / O-ring Grease
- Test Tool - 4921 Available from Risbridger Ltd / PFS Ltd

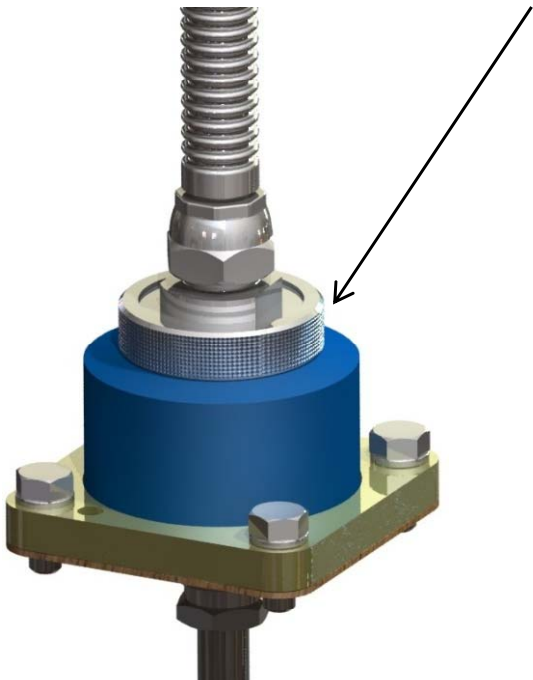


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OVERFILL SIMULATION PROCEDURE

The RIS-STOP-3P overfill prevention devices can be safely tested during a delivery to check the integrity of the working parts. This is recommended to be carried out at annual maintenance intervals.

1. The underground tank is required to be approximately 80% full to undertake testing.
2. Loosen the sensor lock ring by hand approximately 4 turns.



3. Part way through a normal tanker delivery (when tank is above 80% full), depress the test top of the sensor cartridge.



OVERFILL SIMULATION



Whilst holding the top down a mild 'thump' and fill hose reaction should be noticed indicating that the shut off valve has closed.

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4. Release the sensor test top (do not disconnect the tanker fill hose). After a few seconds the valve should re-set to the open position allowing normal delivery. If the overfill prevention device does not respond in this way contact the supplier for instructions.

5. **Re-tighten the sensor lock ring.**



IF A REAL OVERFILL OCCURS THE TANKER DELIVERY VALVE MUST BE CLOSED IMMEDIATELY.

Depending on the length of the pipe work, the leak down rate will take approx 8-10 minutes to drain down the hoses depending on the extent of the overfill.

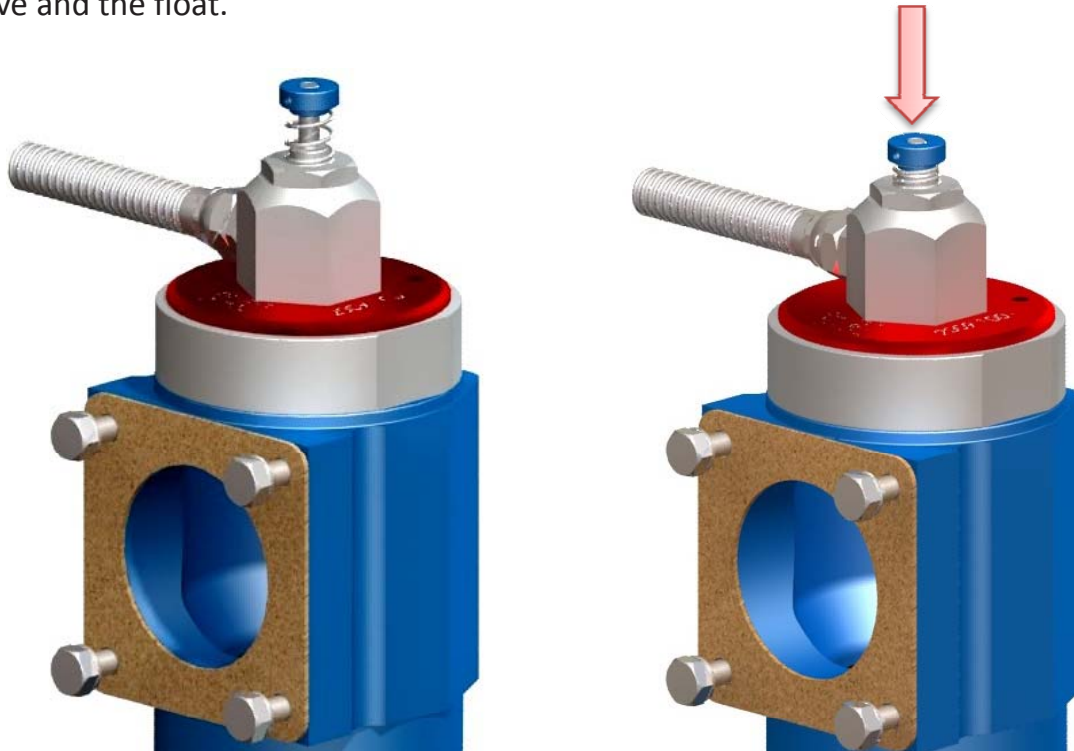
ALL OVERFILL INCIDENTS SHOULD BE REPORTED AND INVESTIGATED.

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ISOLATING THE FLOAT FOR TESTING

In the case of a valve not delivering fuel, there are several functions on the RIS-STOP-3P, to determine and over-come the problem.

If the valve is refusing delivery of fuel, then the first place to look is a pressure drop between the valve and the float.



Whilst the RIS-STOP-3P is fully connected and there is a problem with the delivery, ENSURE THE TANK IS NOT IN AN OVERFILL SITUATION. **If the tank is in OVREFILL, CLOSE THE VALVE ON THE DELIVERY LINE IMMEDIATELY!**

If the tank is not full and there are still problems, then start by depressing the blue button whilst trying to deliver fuel. This isolates the flexible and float so, **BE CAREFULL NOT TO OVERFILL THE TANK WHILE THE BLUE BUTTON IS DEPRESSED, BECAUSE THE VALVE WILL NOT SHUT OFF!**

- If pressing the blue button allows fuel through the valve, release the button and assess to see if the valve allows fuel in. If so, then stop the delivery and start again to ensure the valve has become unstuck and is working correctly. If this has happened, it is recommended to remove the float assembly, inspect and clean. Refer to RIS-STOP-FLOAT MAINTENANCE & TESTING INSTRUCTIONS for further details.
- If the valve only allows fuel in whilst the blue button is depressed, but stops again, then there is a pressure drop between the valve and the end of the float. Please refer to RIS-STOP-FLOAT MAINTENANCE AND TESTING INSTRUCTIONS to rectify.
- If nothing happens with the button depressed, then please fit the Test Tool and perform tests as described in the following instructions.

FITTING THE TEST TOOL.

RIS-STOP-3P overfill prevention devices can be tested to ensure the valve operates correctly and in controlled cases, can be manually overridden to drain the lines.

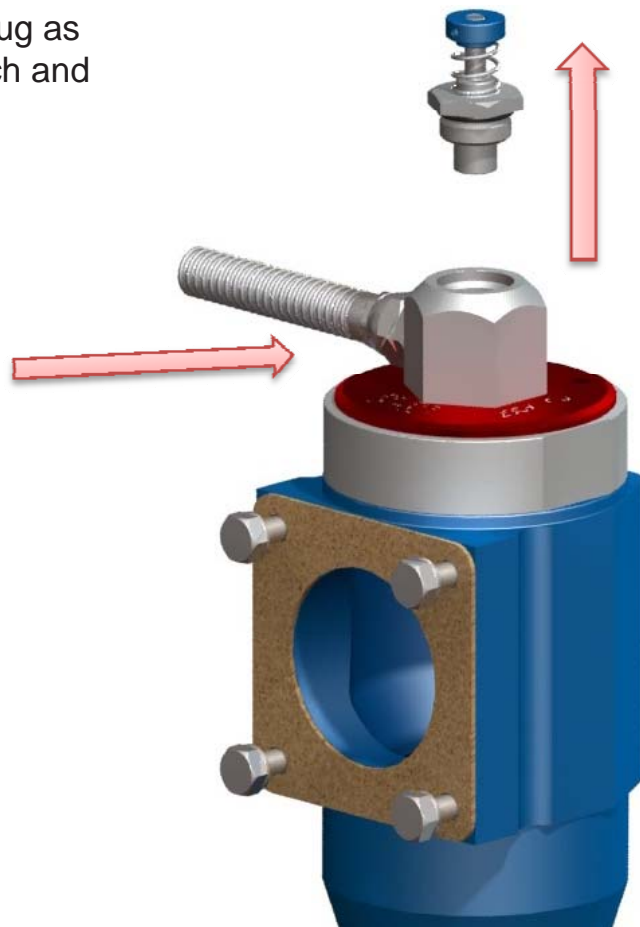
The test tool 4921 is designed specifically to be fitted to the top of the RIS-STOP-3P valve for testing.

Please contact Risbridger Ltd or PFS Ltd to order.

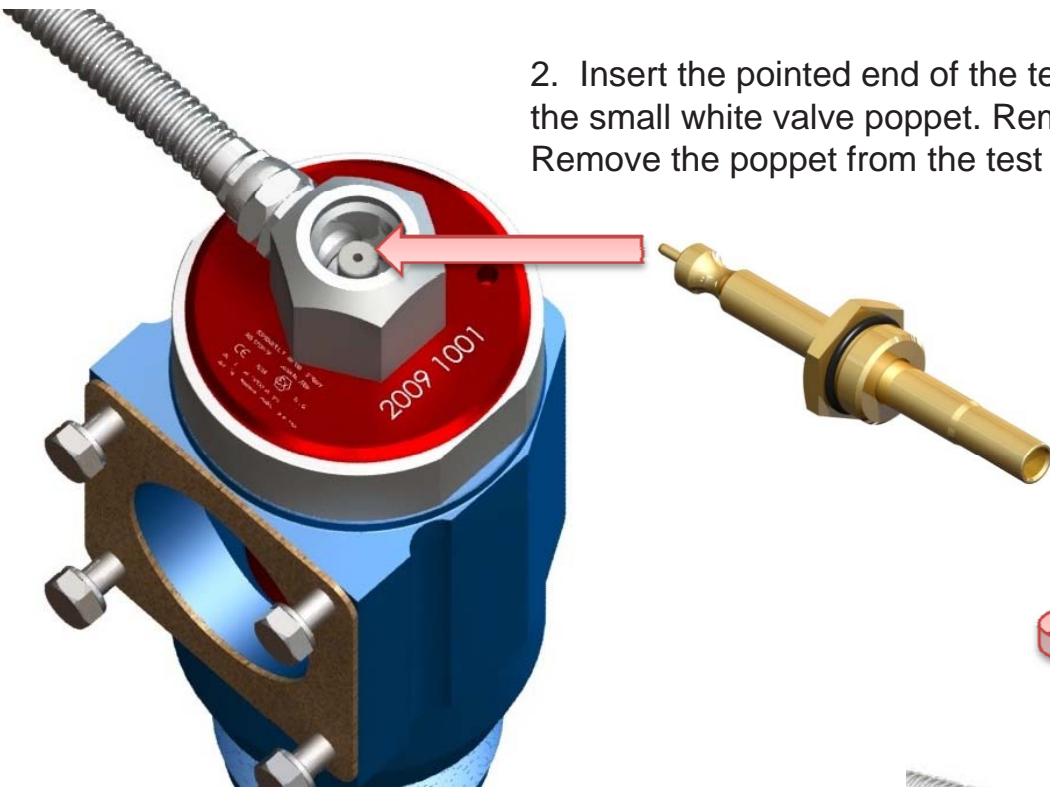


1. Remove the top hexagonal plug as shown using a non-spark 1¼ inch and a 1½ inch spanner (or non-spark adjustables).

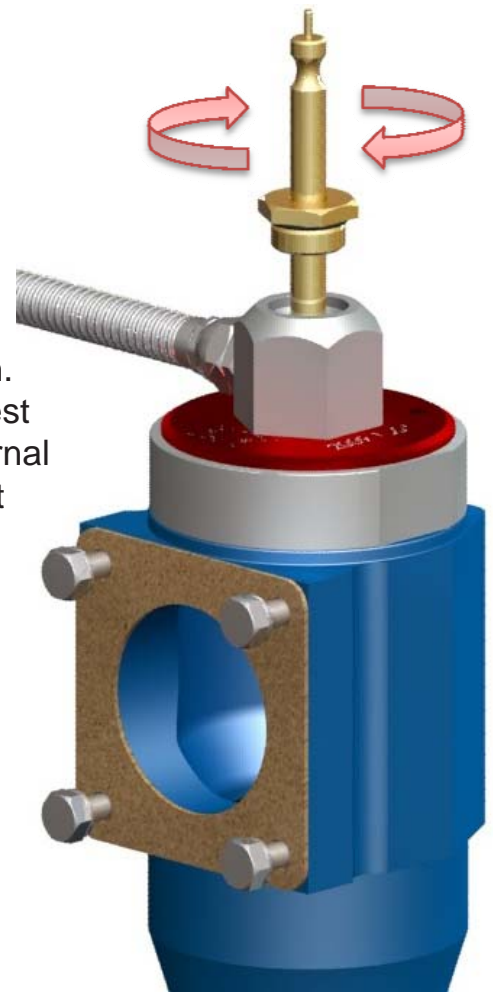
This 1½ inch hexagonal vapour adaptor should rotate freely in the top cap.



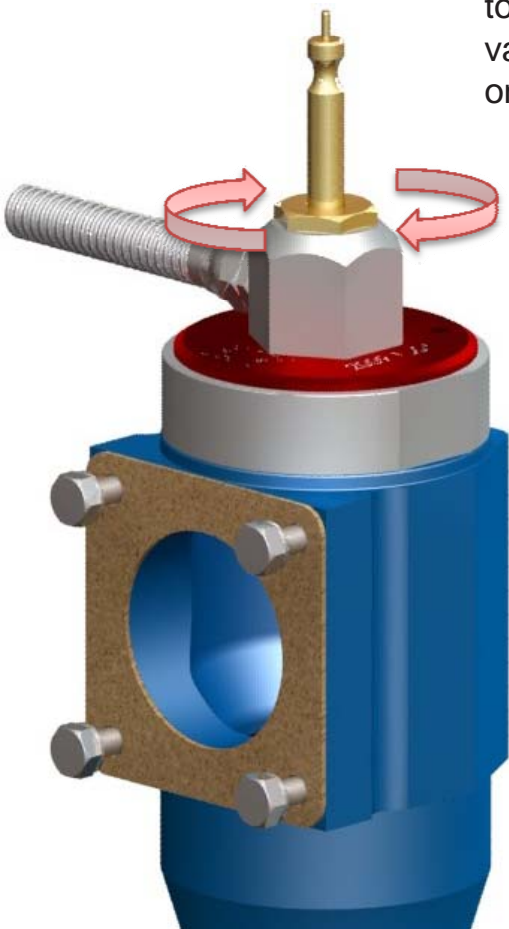
2. Insert the pointed end of the test tool into the top of the small white valve poppet. Remove the poppet. Remove the poppet from the test tool and retain.

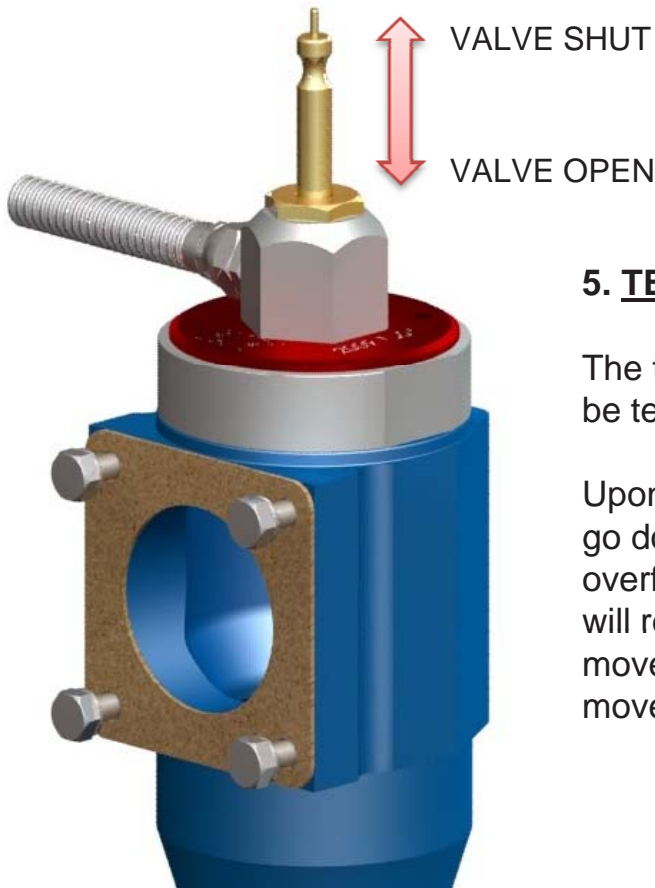


3. Fit the test tool as shown. Thread the spindle of the test tool onto the top of the internal valve for safety – hand tight only.



4. Tighten the test tool hexagon onto the large aluminium hexagon with non-spark spanners (1¼ and 1½ inch AF). Do not over-tighten.





5. TESTING THE VALVE OPERATION.

The test tool is now ready for the valve to be tested.

Upon fuel delivery, the brass spindle will go down. Then on overflow (or simulated overflow as explained earlier), the spindle will return to the up position. These movements of the spindle indicate correct movement of the internal valve.

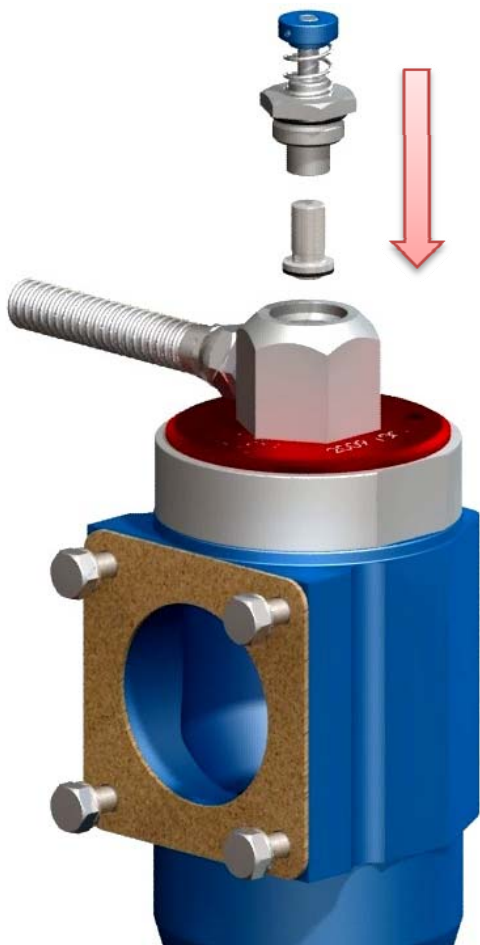
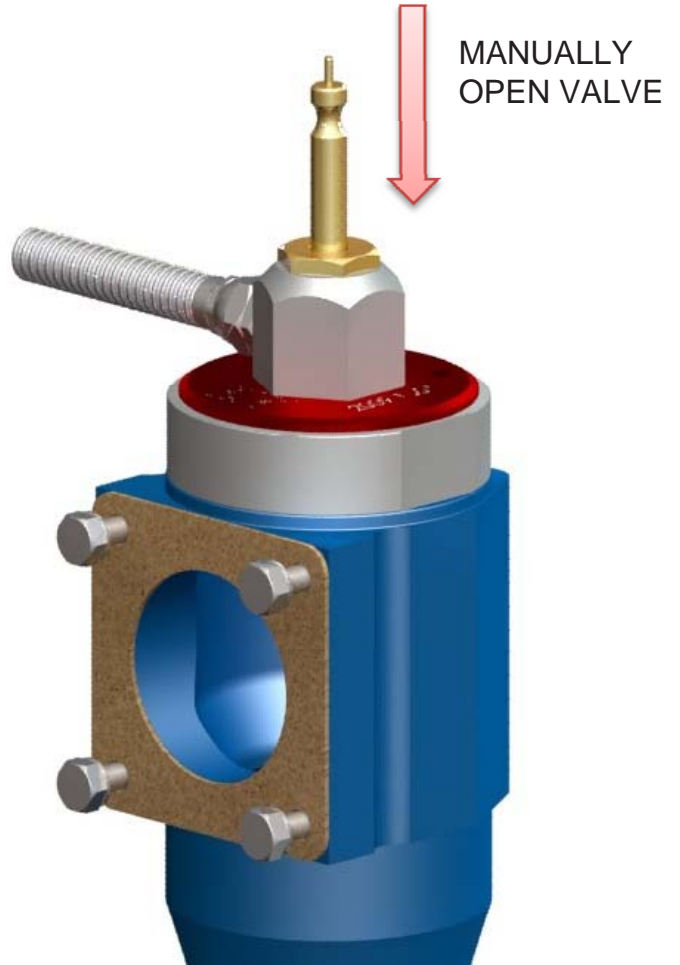
6. Replace the white poppet and hexagonal cap with non-spark spanners (1¼ and 1½ inch AF).



MANUALLY OPENING THE VALVE TO DRAIN THE LINES.

Push the brass spindle down to manually open the valve.

CAUTION:
ENSURE TANKER DELIVERY VALVE IS CLOSED BEFORE OPERATING THE TEST TOOL MANUALLY, TO PREVENT OVERFILL.



Replace the white poppet and hexagonal cap with non-spark spanners (1¼ and 1½ inch AF).

FOR REFERENCE.

Risbridger Ltd offer a range of tools specifically designed for Risbridger products. For further details please contact Risbridger or alternatively, order direct from our website: www.risbridger.com

For installation details of the products supplied with a RIS-STOP-3P and maintenance instructions, please see the following documents enclosed with the products or view on our website:

- RIS-STOP-FLOAT KIT INSTRUCTIONS
- RIS-STOP-3P INSTALLATION INSTRUCTIONS

WARRANTY.

All RISBRIDGER Ltd products are guaranteed against defects in material and workmanship for a period of 12 months from the date of purchase subject to normal use and service. The sole obligation under this warranty is limited to repair or replacement, at the option of RISBRIDGER Ltd any product found to be defective upon examination provided that such product will be returned for inspection carriage paid, within three months of installation. Liability is strictly limited to replacement of defective parts manufactured by RISBRIDGER Ltd and no liability can be accepted for any loss or consequential damages arising from the installation or use of any products supplied by RISBRIDGER Ltd whatsoever the cause. This warranty shall not apply to any product subject to abuse, negligence, accident, misapplication or any alteration by others.



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