

LINDSTRAND HOT AIR BALLOONS LTD

SERVICE INSTRUCTION NO. 4

Issue 1, Dated 14 June 2010

Title: PRV Extension Adaptor
Classification: Advisory
Applicability: Lindstrand V20, V30 & V40 Fuel Cylinders
Compliance Standard: Achieve During Next PRV Replacement.

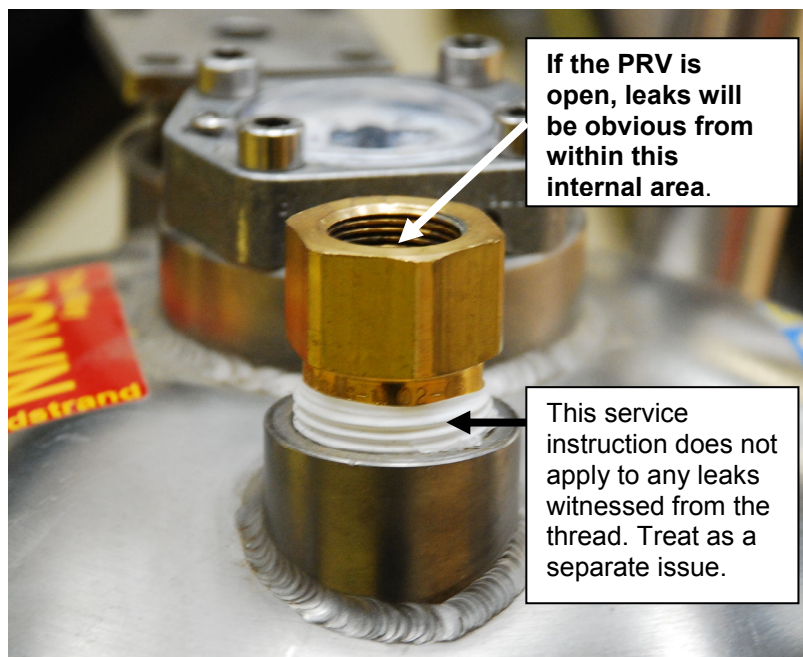
Background

It has been noted that in certain situations a replacement PRV can be forced into the open position via the process of installation into the fuel cylinder. This is the result of close tolerances and slight stretching of the female $\frac{3}{4}$ " NPT thread allowing the PRV to bottom out within the boss.

Inspection Instructions

The current Maintenance Schedule dictates the replacement of the PRV at 10 year intervals. At this event (or for any other PRV replacement reason), the post installation leak test of pressurising the cylinder with air will reveal if the PRV itself is open. (See *Figure 1, below*). In this situation, fitment of a BU1100 PRV Adaptor will provide a solution. Figures 2 & 3 overleaf illustrate the installation procedure of the adaptor.

Figure 1.



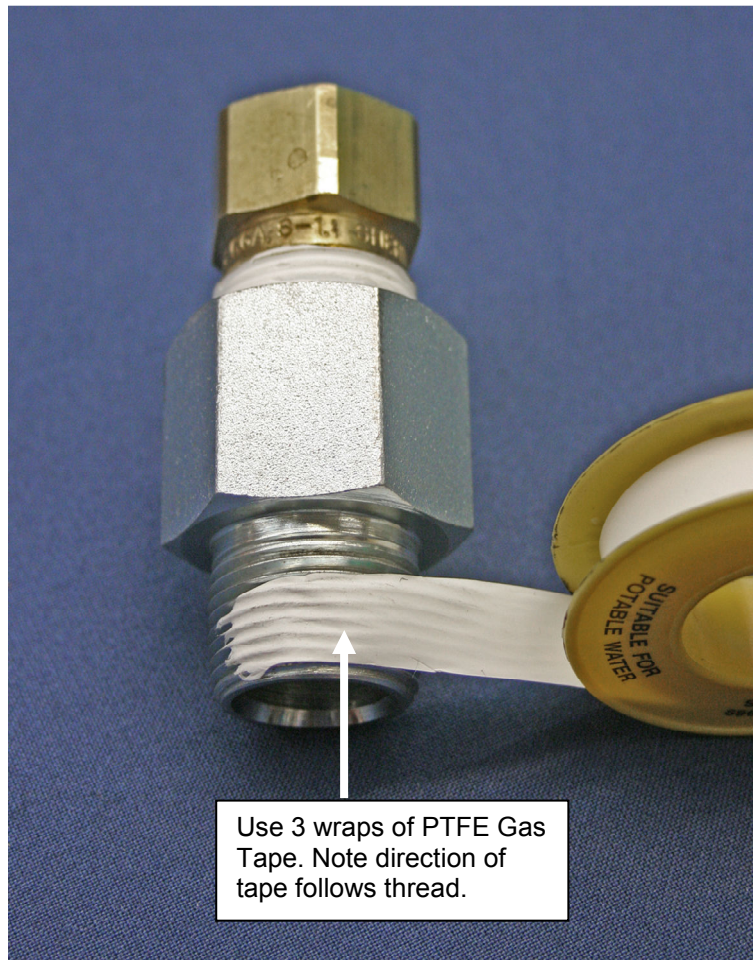


Figure 2. Preparing the Adaptor with PTFE Tape. *Note that in this photo the PRV is already installed into the adaptor. You will probably find it easier to install the adaptor into the fuel cylinder first, then the PRV.*

Installation procedure continued overleaf.



Figure 3. Use either a 1 3/8" AF, a 35mm or suitable adjustable spanner to screw the adaptor into the fuel cylinder. Ensure it is tightened fully by putting in hand tight, then use the spanner. The objective is to achieve between 4.5 to 6 full turns of engaged thread.

If you haven't already fitted the PRV, install now using three wraps of PTFE gas tape. Tighten using the same guidelines as above.

Figure 4, overleaf, illustrates a PRV and adaptor correctly installed into a cylinder. Carry out an airline leak test, using soapy water to look for leaks in the normal manner.

SUMMARY CHECKLIST

- Adaptor installed into cylinder using PTFE tape and tightened?
- PRV installed into Adaptor using PTFE tape and tightened?
- Full leak test using air at 100psi and soapy water?



Figure 4. PRV Adaptor & PRV installed.

Compiled By:		Notes:
Date:	Name:	
6. Design Organisation Approval		
<p>Approval Statement</p> <p>I hereby confirm that these instructions are in compliance with all the applicable airworthiness requirements. The technical content of this document is approved under the authority of DOA nr. EASA.21J.175.</p> <p>Signed, for an on behalf of Lindstrand Hot Air Balloons Ltd</p> <p>.....</p> <p>Head of Design</p>		
Date:	Name:	