



Service instruction: SM008E  
Revision: 1  
Date: 29-07-2010  
Page no.: 1

**Title: Testing of the 5/2 valve P/N E470**

**1. Purpose:**

This work instruction describes how a 5/2 valve P/N E470 should be tested and checked while in use.

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1	29-07-2010	Description of the change:	First release
		Name & function:	Pedro Stam Service Engineer

**Title: Testing of the 5/2 valve P/N E470**

**2. References:**

- 2.1. ISO 9001 (2008) §7.5.1 Control of production and service provision

**3. Definitions:**

- 3.1. None

**4. Forms:**

- 4.1. None

**5. Scope:**

- 5.1. This work instruction can be applied on all E470 valves in the field.

**6. Tools:**

- 6.1. None

**7. Execution:**

- 7.1. Check all the air tubes to make sure they are connected to the right connectors, and check that the connectors are not uptight or damaged.
- 7.2. Visually check if there is no damage or signs of contamination present.
- 7.3. Remove the connectors and air bleeds and check ports for contamination. (If so please continue to point 7.14.)
- 7.4. Test the valve by activating and de-activating the spool via the solenoid.
- 7.5. If this is not possible from inside the bus you can use a battery to switch the valve. Do this a few times (min. 5 times).
- 7.6. If this doesn't work use the manual switch on the valve. You should hear the valve switch.
- 7.7. In some cases it might be necessary that the solenoid needs to be active or inactive before the manual test works. It's best to try both.
- 7.8. Is there still no reaction after this test then there is a problem with the piston (shifted or contaminated).
- 7.9. If the valve responds to the manual switch the problem could be caused by the spool, chance the spool connector and try again. If it is not possible to change spool then change valve.
- 7.10. When the valve is still leaking air remove the tubes and make sure the airflow comes from the correct tube.
- 7.11. When the air is coming from a tube it is not supposed to come from then the tubes are connected incorrectly or there is an air leak in another part of the system.
- 7.12. When all the above is done and the problem has not been located, replace the valve and take/send to Ventura.
- 7.13. Mark the location of the leak on the valve and the worksheet.
- 7.14. When Contamination has been determined get in contact with Ventura / TDS / manufacturer/ transporter, and ask for an order nr. If this is not yet known.
- 7.15. Make an adequate description of the problem on the report and put that with the valve.



**Service instruction: SM008E**  
**Revision: 1**  
**Date: 29-07-2010**  
**Page no.: 3**

**Title: Testing of the 5/2 valve P/N E470**

- 7.16. Also state the registration nr. of the mechanism on the report.
- 7.17. If there is a filter regulator present please check it for contamination, and clean if necessary.